

Proposal Full View

Print

APPLICANT INFORMATION

Organization Name *	County of Kern			
Tax ID	956000925			
Point Of Contact *	Division/Address List:	County Administrative Office		
	Address1:	1115 Truxtun Ave.	Address2:	
	City:	Bakersfield	State:	CA
	Zip:	93301		
	First Name:	Alan	Last Name:	Christensen
	Email:	achristensen@co.kern.ca.us	Phone (Office):	(661) 8683183
Point Of Contact Position Title *	General Manager (IWVGA)			
Proposal Name *	Indian Wells Valley Groundwater Basin - Groundwater Sustainability Plan Development			
Proposal Objective*	<p>Proposal Objective: The Indian Wells Valley Groundwater Authority (IWVGA), the established local Groundwater Sustainability Agency (GSA), for the Indian Wells Valley groundwater basin is developing a Groundwater Sustainability Plan (Project) in compliance with SGMA regulations. The objective of this proposal is to receive funding of the following tasks necessary for the development of the of the Project: • Groundwater Model • Salt and Nutrient Management Plan • Data Management System • Identify and Evaluate Data Gaps • Monitoring Wells • Stream Gages • Weather Stations • Water Quality and Stable Isotope Sampling • Aquifer Tests • Recycled Water Study • Imported Water Study • GSP Preparation and Compilation</p>			

BUDGET

Other Contribution	\$0.00
Local Contribution	\$1,270,400.00
Federal Contribution	\$0.00
Inkind Contribution	\$0.00
Amount Requested *	\$1,270,400.00
Total Proposal Cost *	\$2,540,800.00

GEOGRAPHIC INFORMATION

Latitude *					
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	DD(+/-): 35	MM: 38	SS: 43
Longitude *	DD(+/-): 117	MM: 45	SS: 17
Longitude/Latitude Clarification	Location of the approximate basin center using Google Earth coordinates	Location	Location of the approximate basin center using Google Earth coordinates
County*	Inyo, Kern, San Bernardino		
Ground Water Basin	Indian Wells Valley		
Hydrologic Region	South Lahontan		
Watershed	Indian Wells-Searles, Fremont-Antelope		

LEGISLATIVE INFORMATION

Assembly District*	26th Assembly District, 33rd Assembly District, 34th Assembly District
Senate District*	16th Senate District, 8th Senate District
US Congressional District*	District 23 (CA), District 8 (CA)

Project Information

PROJECT NAME: INDIAN WELLS VALLEY GROUNDWATER BASIN - GROUNDWATER SUSTAINABILITY PLAN DEVELOPMENT

INDIAN WELLS VALLEY GROUNDWATER BASIN - GROUNDWATER SUSTAINABILITY PLAN DEVELOPMENT

Implementing Organization	Indian Wells Valley Groundwater Authority
Secondary Implementing Organization	
Proposed Start Date	1/1/2015
Proposed End Date	3/31/2020
Scope Of Work	Task 1: Model Development; Task 2: Salt and Nutrient Management Plan; Task 3: Data Management System; Task 4: Identify and Evaluate Hydrogeologic Data Gaps; Task 5: Monitoring Wells; Task 6: Stream Gages; Task 7: Weather Stations; Task 8: Water Quality and Stable Isotope Sampling; Task 9: Aquifer Tests; Task 10: Recycled Water Study; Task 11: Imported Water Study; and Task 12: GSP Development and Compilation;
Project Description	The Indian Wells Valley groundwater basin is a critically overdrafted basin of Medium Priority. Consequently, the Indian Wells Valley Groundwater Authority, the local GSA, is developing a Groundwater Sustainability Plan (Project). The following tasks are included in the proposal: 1) Groundwater Model: A hydrogeologic conceptual model and numerical groundwater model to estimate the aquifer's hydrologic water budget, assess trends, and evaluate groundwater management strategies. 2) Salt and Nutrient Management Plan: A Salt and

Nutrient Management Plan to facilitate basin-wide management that optimizes recycled water use. 3) Data Management System: A comprehensive geo-referenced database that stores and reports physical and environmental datasets. 4) Identify and Evaluate Data Gaps: Identification of basin-wide data gaps to help refine the monitoring network, validate the hydrogeologic conceptual model and update the numerical groundwater model. 5) Monitoring Wells: Four new monitoring wells to fill in lithologic, groundwater level, and groundwater quality data gaps in model simulations. 6) Stream Gages: Two new stream gages to fill hydrologic data gaps. 7) Weather Stations: Two new weather stations to fill in meteorological data gaps. 8) Water Quality and Stable Isotope Sampling: Sampling and analysis of surface water and groundwater to fill in water quality and hydrogeologic data gaps. 9) Aquifer Tests: Aquifer performance tests to fill in hydrogeologic data gaps. 10) Recycled Water Study: Identification of existing recycled water supply and demand as wells as location of potential new recycled water users and required infrastructure. 11) Imported Water Study: Water supply and distribution evaluation 12) GSP Preparation: Preparation of a basin-wide GSP, in accordance with SGMA regulations, that incorporates task findings to develop long-term sustainable groundwater management strategies with the goal improving groundwater reliability.

Project Objective

With the purpose of complying with SGMA regulations and DWR standards and guidance, the following goal for the development of the Indian Wells Valley groundwater basin Groundwater Sustainability Plan (Project) was established: Develop sustainable management strategies that culminate in the absence of undesirable and unsustainable groundwater conditions within 20 years in order to provide long-term sustainable groundwater management.

PROJECT BENEFITS INFORMATION

No records found.

BUDGET

Other Contribution	\$0.00
Local Contribution	\$1,270,400.00
Federal Contribution	\$0.00
Inkind Contribution	\$0.00
Amount Requested*	\$1,270,400.00
Total Project Cost*	\$2,540,800.00

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Ground Water Basin	Indian Wells Valley
Hydrologic Region	South Lahontan
Watershed	Indian Wells-Searles, Fremont-Antelope

LEGISLATIVE INFORMATION

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Senate District*	16th Senate District, 8th Senate District
US Congressional District*	District 23 (CA), District 8 (CA)

Section : Questions

Q1: Project Description:

Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. (25 words or less)

Development of a GSP will address the basin's groundwater management through studying alternate water supplies and groundwater recharge methods to reach and maintain sustainable levels.

Q2: Project Representative:

Provide the name and details of the person responsible for signing and executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Representative.

Alan Christensen; achristensen@co.kern.ca.us; Kern County Administrative Office; 1115 Truxtun Avenue, 5th Floor; Bakersfield, CA 93301; Phone #: (661) 868-3198; FAX #: (661) 868-3190

Q3: Project Manager:

Provide the name, title, and contact information of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Alan Christensen; achristensen@co.kern.ca.us; Kern County Administrative Office; 1115 Truxtun Avenue, 5th Floor; Bakersfield, CA 93301; Phone #: (661) 868-3198; FAX #: (661) 868-3190

Q4: Eligibility:

Has the applicant met the requirements of DWR's California Statewide Groundwater Elevation Monitoring (CASGEM) Program?

- a) Yes
b) No

Q5: Eligibility:

Is the applicant an agricultural water supplier? If yes, has the applicant submitted a complete Agricultural Water Management Plan (AWMP) to DWR? Has the AWMP been verified as complete by DWR? If the AWMP has not been submitted, explain and provide the anticipated submittal date?

The IWVGA is not an agricultural water supplier and is not required to prepare an Agricultural Water Management Plan. The member agencies of the IWVGA are also not agricultural water suppliers. A listing of 2015 Agricultural Water Management Plans received by DWR is provided in the Attachments Tab, Attachment 2 ("Eligibility Applicant Documentation"). The DWR listing shows there are no water suppliers associated with the Indian Wells Valley groundwater basin area which need to submit a 2015 Agricultural Water Management Plan.

Q6: Eligibility:

Is the applicant an urban water supplier? If yes, has the applicant submitted a complete Urban Water Management Plan (UWMP) to DWR? Has the UWMP been verified as complete by DWR? If the UWMP has not been submitted, explain and provide the anticipated date for submittal.

The IWVGA is not an urban water supplier and is not required to prepare an Urban Water Management Plan (UWMP). However, it should be noted the Indian Wells Valley Water District (IWVWD), a member agency of the IWVGA, is an urban water supplier. IWVWD has prepared its 2015 UWMP, dated June 2016, which is available for download from the following DWR website: (https://wuedata.water.ca.gov/uwmp_plans.asp) An April 26, 2017 approval letter from DWR to IWVWD is provided in the Attachments Tab, Attachment 2 ("Eligibility Applicant Documentation") and indicates IWVWD's 2015 UWMP has addressed the requirements of the California Water Code.

Q7: Eligibility:

Is the applicant a surface water diverter? If yes, has the applicant submitted to the State Water Resources Control Board (SWRCB) their surface water diversion reports in compliance with requirements outlined in Part 5.1 (commencing with Section 5100) of Division 2 of the Water Code? If the reports have not been submitted, explain and provide the anticipated date for meeting the requirements.

The IWVGA is not a surface water diverter and is not required to submit surface water diversion reports to the State Water Resources Control Board (SWRCB). A listing of all surface water rights holders in the vicinity of the Indian Wells Valley groundwater basin (within the Indian Wells and Antelope watersheds), obtained from the SWRCB's Electronic Water Rights Information Management System (eWRIMS), is provided in the Attachments Tab, Attachment 2 ("Eligibility Applicant Documentation"). The SWRCB eWRIMS listing shows IWVGA member agencies do not own any surface water rights in the basin area.

Q8: Eligibility:

Does the proposal include any of the following activities:

- 1) The potential to adversely impact a wild and scenic river or any river afforded protection under the California or Federal Wild and Scenic Rivers Act**
- 2) Acquisition of land through eminent domain**
- 3) Design, construction, operation, mitigation, or maintenance of Delta conveyance facilities**
- 4) Acquisition of water except for projects that will provide fisheries or ecosystem benefits or improvements that are greater than required currently applicable environmental mitigation measures or compliance obligations**
- 5) Pay any share of the costs of remediation recovered from parties responsible for the contamination of a groundwater storage aquifer**
- 6) Projects or groundwater planning activities associated with adjudicated groundwater basins.**

If yes, the project is not eligible to receive grant funding.

- a) Yes
b) No

Q9: DAC or EDA Cost Share Waiver or Reduction:

Are you applying for cost share waiver or reduction as a DAC, SDAC, or EDA? Fill out Attachment 7, Attachment 8, or Attachment 9 as appropriate.

- a) Yes
b) No

Q10: Project Area Map:

Provide a map illustrating the groundwater basin, relevant project features, service area (may represent the area covered by GSP for Category 2), and SDAC, DAC, EDA area, if applicable.

Section : Attachments

Attachment 1: Authorization

Upload Authorization documentation here. [This attachment is mandatory.](#)

Attachment 2: Eligibility Applicant Documentation

Upload Eligibility Applicant documentation here. [This attachment is mandatory.](#)

Attachment 3: Project Justification

Upload Project Justification documentation here. [This attachment is mandatory.](#)

Attachment 4: Work Plan

Upload Work Plan documentation here. [This attachment is mandatory.](#)

Attachment 5: Budget

Upload Budget documentation here. [This attachment is mandatory.](#)

Attachment 6: Schedule

Upload Schedule documentation here. [This attachment is mandatory.](#)

Attachment 7: Disadvantaged Community

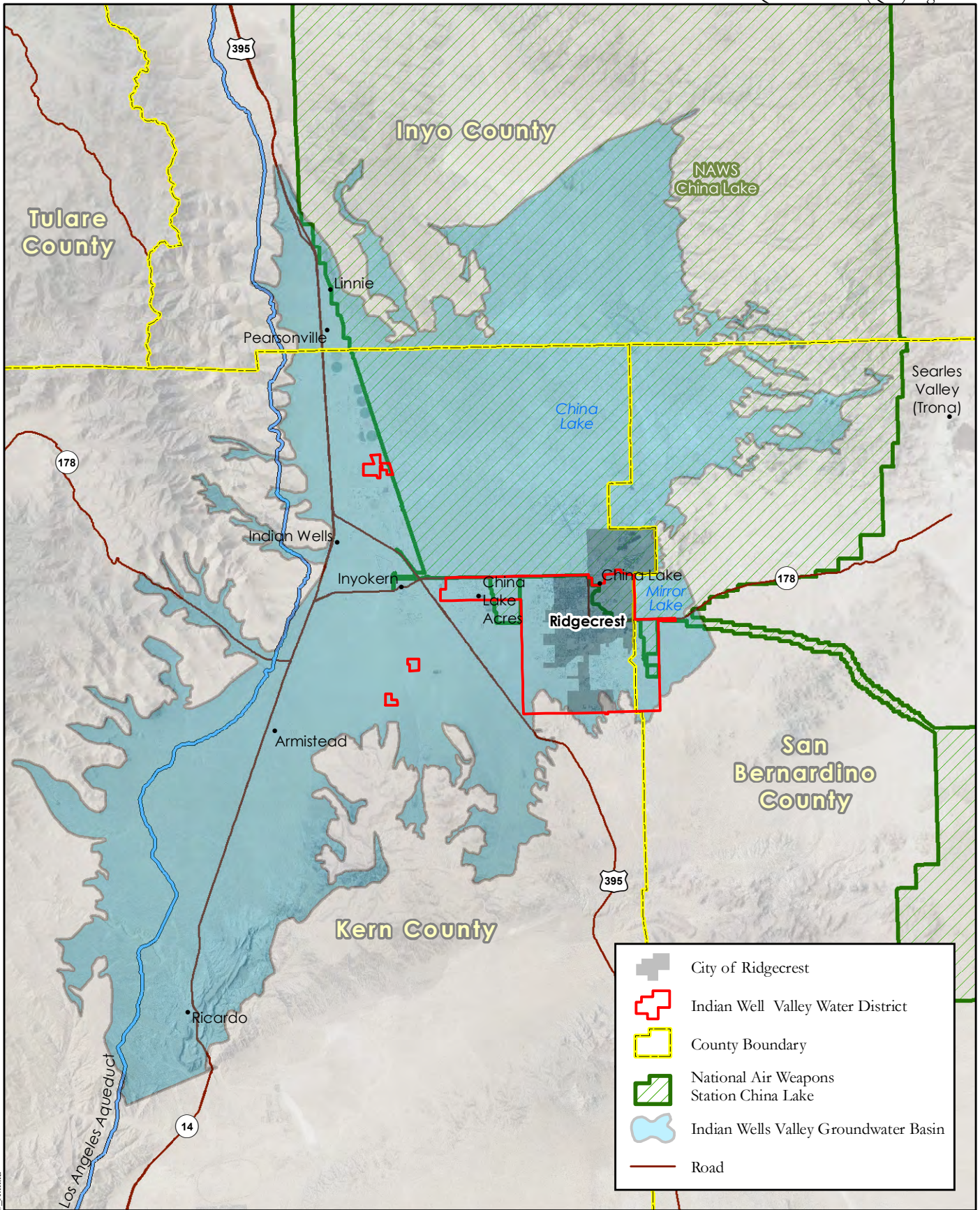
Upload Disadvantaged Community documentation here (if applicable).

Attachment 8: Economically Distressed Area

Upload Economically Distressed Area documentation here (if applicable).

Attachment 9: Severely Disadvantaged Community

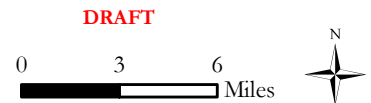
Upload Severely Disadvantaged Community documentation here (if applicable).

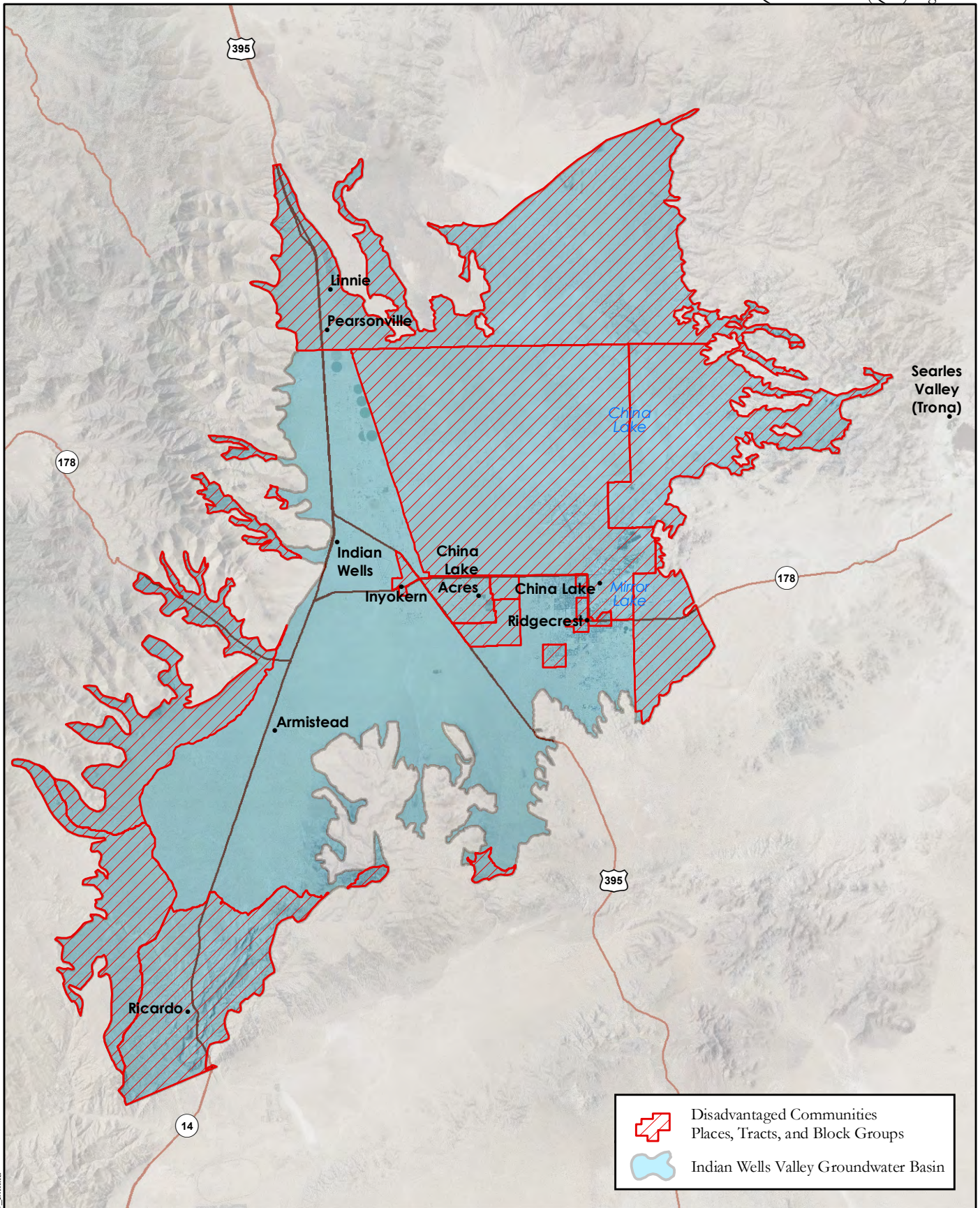




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**PROJECT AREA
INDIAN WELLS VALLEY
GROUNDWATER BASIN**

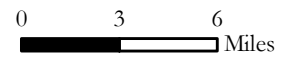




	Disadvantaged Communities Places, Tracts, and Block Groups
	Indian Wells Valley Groundwater Basin

DRAFT

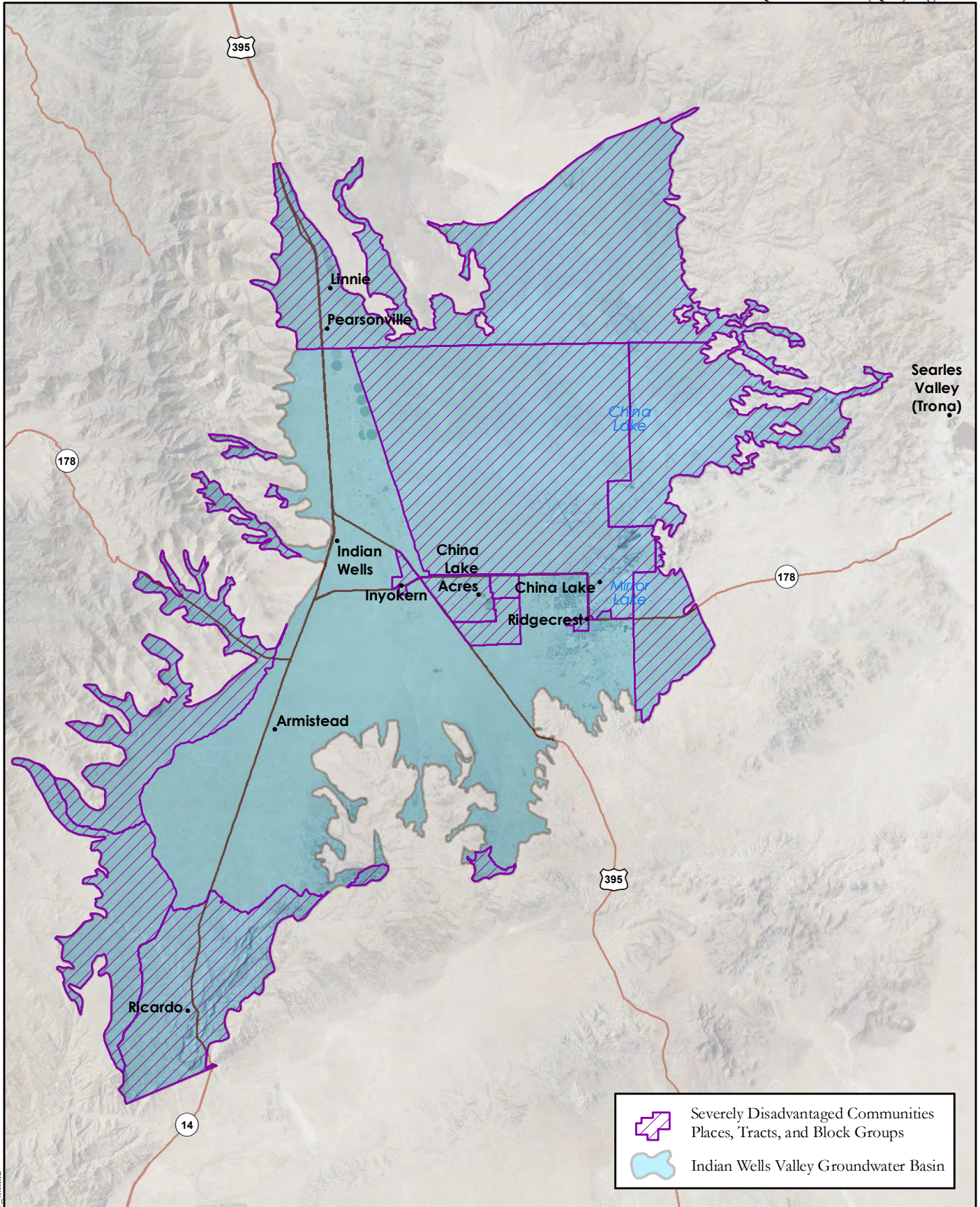
DISADVANTAGED COMMUNITIES INDIAN WELLS VALLEY GROUNDWATER BASIN



Document Path: F:\p2652\Q10_Brmxd



Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm



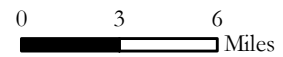
Document Path: F:\p2652\Q10_C.mxd



**SEVERELY DISADVANTAGED COMMUNITIES
INDIAN WELLS VALLEY GROUNDWATER BASIN**

Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm

DRAFT





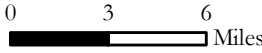
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Source: http://www.water.ca.gov/irwm/grants/resources_eda.cfm

**ECONOMICALLY DISADVANTAGED AREAS
INDIAN WELLS VALLEY GROUNDWATER BASIN**

DRAFT



INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

“ATTACHMENT TAB”

ATTACHMENT 1

AUTHORIZATION

1.0 AUTHORIZING DOCUMENTATION

The Indian Wells Valley Groundwater Authority (IWVGA) Board of Directors (Board) adopted a Resolution on September 21, 2017 authorizing the General Manager of the IWVGA to submit this Sustainable Groundwater Planning Grant Program application and execute a grant funding agreement with the State of California. A copy of the signed Resolution is provided in Attachment 1-1.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

ATTACHMENT 1-1
IWVGA AUTHORIZING RESOLUTION

BEFORE THE BOARD OF DIRECTORS OF THE INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

In the matter of:

Resolution No. 09-17

RESOLUTION AUTHORIZING AN AGREEMENT WITH THE STATE OF CALIFORNIA FOR PROPOSITION 1 GRANT FUNDING FOR SUSTAINABLE GROUNDWATER PLANNING.

I, Lauren Duffy, Clerk of the Board of Directors for the Indian Wells Valley Groundwater Authority, do certify that the following resolution, on motion of Director Bob Page, seconded by Director Peter Brown, was duly passed and adopted by the Board of Directors at an official meeting this 21st day of September, 2017, by the following vote:

AYES: Breeden, Brown, Gleason, Kingsley, Page

NOES: 0

ABSENT: 0



Clerk of the Board of Directors
Indian Wells Valley Groundwater Authority

Deputy Clerk

RESOLUTION

Section 1. WHEREAS:

(a) The "Sustainable Groundwater Management Act" (SGMA) requires that the Indian Wells Valley Groundwater Basin be managed under a Groundwater Sustainability Plan (GSP) by no later than January 31, 2020; and

(b) The stated purpose of SGMA, as set forth in California Water Code Section 10720.1, is to provide for the sustainable management of groundwater basins, and sub-basins, as defined by the California Department of Water Resources at a local level by providing local water supply, water management and land use agencies with the authority and technical and financial assistance necessary to sustainably manage groundwater; and

(c) Grant funding from DWR is available through Proposition 1 under the Sustainable Groundwater Planning (SGWP) grant program for the preparation of a GSP (“Category 2” projects) and for certain groundwater sustainability projects serving Severely Disadvantaged Communities (“Category 1” projects); and

(d) The Indian Wells Valley Groundwater Authority (IWVGA) is eligible to receive Category 1 funding, up to \$1 million per project, and Category 2 funding, up to \$1.5 million per GSP, through submittal of a SGWP grant program Application to DWR; and

(e) The SGWP grant program Application was released on September 8, 2017 and is to be submitted to DWR on November 13, 2017; and

(f) The SGWP grant program Application requires submittal of a Resolution adopted by the Indian Wells Valley Groundwater Authority authorizing a representative to enter into an agreement with the State of California to receive grant funding.

Section 2. THEREFORE IT IS RESOLVED by the Board of Directors of the Indian Wells Valley Groundwater Authority, as follows:

1. This Board finds that the recited facts are true and that it has the jurisdiction to consider, approve, and adopt this Resolution.

2. Resolved by the Indian Wells Valley Groundwater Authority, that Application be made to the California Department of Water Resources to obtain a grant under the 2017 Sustainable Groundwater Planning Grant Program pursuant to the Water Quality, Supply, and Infrastructure Improvement Act of 2014 (Proposition 1) (Water Code Section 79700 et seq.), and to enter into an agreement to receive grant funding for Category 1 and Category 2 projects, as defined by the California Department of Water Resources, under the Sustainable Groundwater Planning Grant Program. Category 1 projects include specific projects which will benefit Severely Disadvantaged Communities in the Indian Wells Valley groundwater basin area. The Category 2 project includes the preparation of a Groundwater Sustainability Plan for the Indian Wells Valley groundwater basin. The General Manager of the Indian Wells Valley Groundwater Authority is hereby authorized and directed to prepare the necessary data, conduct investigations, file such application, and execute a grant agreement with California Department of Water Resources. Passed and adopted at a meeting of the Indian Wells Valley Groundwater Authority on September 21st, 2017.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

“ATTACHMENT TAB”

ATTACHMENT 2

**ELIGIBILITY APPLICANT
DOCUMENTATION**

1.0 ELIGIBILITY DOCUMENTATION

Pursuant to the California Department of Water Resources' (DWR) "Groundwater Sustainability Plans and Projects Proposal Solicitation Package", dated September 2017, eligible applicants for Proposition 1 funding under Category 2 proposals (Groundwater Sustainability Plan) preparation and development) include "GSAs or member agencies of the GSAs for the basin for which the application is submitted".

The applicant for the proposed Project (Indian Wells Valley Groundwater Basin – Groundwater Sustainability Plan Development) is the Indian Wells Valley Groundwater Authority (IWVGA). The IWVGA was formed as a joint powers agency (JPA) in response to the provisions of SGMA to have "high" and "medium" priority groundwater basins managed by a Watermaster service or through a Groundwater Sustainability Agency (GSA). The IWVGA is the GSA for the Indian Wells Valley Groundwater Basin. The GSA and JPA formation documents provided by the IWVGA to DWR are provided in Attachment 2-1. The IWVGA consists of the following voting member agencies:

- 1) City of Ridgecrest (a public agency)
- 2) Indian Wells Valley Water District (a public utility)
- 3) County of Kern (a public agency)
- 4) County of Inyo (a public agency)
- 5) County of San Bernardino (a public agency)

along with the United States Department of the Interior Bureau of Land Management and the United States Navy, Naval Air Weapons Station China Lake as non-voting associate members.

In addition to meeting the GSA eligibility requirement for Category 2 proposals, the Indian Wells Valley groundwater basin is in compliance with CASGEM requirements. The IWVGA is not required to meet Urban Water Management compliance, Agricultural Water Management compliance, and Surface Water Diverter compliance. These additional eligibility requirements are discussed further below.

2.0 CASGEM COMPLIANCE

The Indian Wells Valley groundwater basin is in compliance with the California State Groundwater Elevation Monitoring (CASGEM) program. A DWR letter, dated November 18, 2011, designating the Indian Wells Valley Cooperative Groundwater Management Group (IWVCGMG) as the CASGEM monitoring entity for the Indian Wells Valley groundwater basin is provided in Attachment 2-2. (It should be noted the IWVGA will be submitting required information in the near future to DWR in order to update the monitoring entity designation from the IWVCGMG to the IWVGA.) As part of the CASGEM program for the Indian Wells Valley groundwater basin, groundwater elevation data from 39 monitoring well locations is currently submitted twice a year to DWR. The most recent round of groundwater elevation results uploaded to CASGEM are provided in Attachment 2-3 (from a March 2017 monitoring event). It is anticipated the next round of groundwater elevation results for the Indian Wells Valley groundwater basin will be submitted to CASGEM by November 2017.

3.0 URBAN WATER MANAGEMENT PLAN COMPLIANCE

The IWVGA is not an urban water supplier¹ and is not required to prepare an Urban Water Management Plan (UWMP). However, it should be noted the Indian Wells Valley Water District (I WVWD), a member agency of the IWVGA, is an urban water supplier. I WVWD has prepared its 2015 UWMP, dated June 2016, which is available for download from the following DWR website:

https://wuedata.water.ca.gov/uwmp_plans.asp

An April 26, 2017 approval letter from DWR to I WVWD is provided in Attachment 2-4 and indicates I WVWD's 2015 UWMP has addressed the requirements of the California Water Code.

¹ An urban water supplier is defined as a "supplier, either publicly or privately owned, that provides water for municipal purposes, either directly or indirectly, to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually (Water Code §10617)."

4.0 AGRICULTURAL WATER MANAGEMENT PLAN COMPLIANCE

The IWVGA is not an agricultural water supplier² and is not required to prepare an Agricultural Water Management Plan. The member agencies of the IWVGA are also not agricultural water suppliers. A listing of 2015 Agricultural Water Management Plans received by DWR is provided in Attachment 2-5. The DWR listing shows there are no water suppliers associated with the Indian Wells Valley groundwater basin area which need to submit a 2015 Agricultural Water Management Plan.

5.0 SURFACE WATER DIVERTER COMPLIANCE

The IWVGA is not a surface water diverter and is not required to submit surface water diversion reports to the State Water Resources Control Board (SWRCB). A listing of all surface water rights holders in the vicinity of the Indian Wells Valley groundwater basin (within the Indian Wells and Antelope watersheds), obtained from the SWRCB's Electronic Water Rights Information Management System (eWRIMS), is provided in Attachment 2-6. The SWRCB eWRIMS listing shows IWVGA member agencies do not own any surface water rights in the basin area.

² An agricultural water supplier is defined as a "water supplier, either publicly or privately owned, provided water to 10,000 or more irrigated acres, excluding the acreage that received recycled water; also include a supplier or contractor for water regardless of the basis of right that distributes or sells water for ultimate resale to customers (Water Code §10608.12.(a))"

ATTACHMENT 2-1
GSA AND JPA FORMATION DOCUMENTS

MARK L. NATIONS
INTERIM COUNTY COUNSEL

CHIEF DEPUTIES

MARGO A. RAISON
KAREN S. BARNES
CHARLES F. COLLINS
GURUJODHA S.KHALSA

OFFICE OF THE
COUNTY COUNSEL
COUNTY OF KERN

Administrative Center
1115 Truxtun Avenue, Fourth Floor
Bakersfield, California 93301
Voice: (661) 868-3800
Fax: (661) 868-3643
TTY Relay: 1-800-735-2929

DEPUTIES

KELLEY D. SCOTT
THOMAS G. MORGAN
ELIZABETH M. GIESICK
JERRI S. BRADLEY
KELLI R. FALK
KENDRA L. GRAHAM
ANDREW C. THOMSON
DAVID T. UNGAR*
JEFFREY N. ESTEY*
JUDITH M. DENNY
JENNIFER E. FEIGE
MARSHALL S. FONTES
NICOLE M. MISNER
BRIAN VAN WYK
BRYAN E. ALBA
PHILLIP W. HALL
BRYAN C. WALTERS
GILLIAN SMITH
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*Certified Workers' Compensation Law Specialist,
The State Bar of California
Board of Legal Specialization

December 22, 2016

Mark Nordberg, GSA Project Manager
Sustainable Groundwater Management Program
California Department of Water Resources
901 P Street, Room 213A
P. O. Box 942836
Sacramento, CA 94236

Mark.Nordberg@water.ca.gov

Dane Mathis
Supervising Engineering Geologist
California Department of Water Resources
3374 East Shields Avenue
Fresno, CA 93726

Dane.Mathis@water.ca.gov

**NOTICE OF THE INDIAN WELLS VALLEY GROUNDWATER AUTHORITY'S
ELECTION TO BECOME A GROUNDWATER SUSTAINABILITY
AGENCY FOR THE ENTIRETY OF THE INDIAN WELLS
VALLEY GROUNDWATER BASIN**

Pursuant to the provisions of the Sustainable Groundwater Management Act (SGMA), and in particular California Water Code section 10723.8, the Indian Wells Valley Groundwater Authority (Authority) hereby gives notice to the California Department of Water Resources (DWR) of its election to become a Groundwater Sustainability Agency (GSA) and to undertake sustainable groundwater management for the entirety of the Indian Wells Valley Groundwater Basin (Basin).

The Basin, which is designated as Basin No. 6-54 in California Department of Water Resources Bulletin 118, is included on the list of critically overdrafted basins. The entirety of the Basin, which overlies portions of Kern, Inyo, and San Bernardino Counties, is coterminous with the GSA management area subject to this Notice, which is depicted on the attached Exhibit A (Management Area).

The Joint Powers Agreement forming the Indian Wells Valley Groundwater Authority, which is attached hereto as Exhibit B, consists of five signatories. The signatories are all GSA eligible entities and their combined political boundaries overly the entirety of the Basin. The signatories formed the Authority for the express purpose of becoming the GSA for the entirety of the Basin.

Prior to its decision to become a GSA for the Management Area, the Authority's Board of Directors held a properly noticed public hearing on December 8, 2016. The public hearing was held in accordance with Water Code section 10723(b), and it was noticed in accordance with Government Code section 6066. Proof of Publication is attached hereto as Exhibit C.

At the conclusion of the public hearing, the Authority's Board of Directors unanimously adopted Resolution No. 02-16 (attached hereto as Exhibit D) electing to become a GSA for the Management Area. The Authority's Board of Directors did not adopt any new bylaws, ordinances, or other authorities related to this Notice; and this Notice has been provided within 30 days of the hearing as provided for in Water Code section 10723.8(a).

As of the date of this Notice, and to the best of the Authority's knowledge, there are no other agencies, local agencies as defined by Water Code section 10721(n), and/or Groundwater Sustainability Agencies as defined by Water Code section 10721(j) that are managing, or proposing to manage, groundwater within the Basin pursuant to SGMA. To the best of the Authority's knowledge, a list of agencies that could potentially file to be a GSA within the Basin is attached hereto as Exhibit E.

Pursuant to California Water Code sections 10723.8 and 10723.2, the Authority has considered, and will continue to consider, the interests of all beneficial uses and users of groundwater, as well as those that are responsible for implementing GSPs. Additionally, the Authority is committed to an open process including active and open discussions with all interested parties during the GSP development process.

Pursuant to California Water Code section 10723.8 and 10723.2, the Authority is actively developing a list of interested parties within the Management Area. The Authority is committed to amending this list as necessary during the GSP development process. To the best of the Authority's knowledge, a complete list of interested parties developed to date is attached hereto as Exhibit F.

The Authority is committed to cooperatively and collaboratively working with all interested parties in an inclusive and open process that will lead to the development and implementation of a GSP that achieves sustainable groundwater management. The Authority is committed to providing all interested parties with opportunities, both formal and informal, to provide input throughout the process of developing, operating, and implementing the GSA and GSP. In part, the Authority's commitment will take the form of formal and informal outreach to all interested parties, as well as the holding of public informational meetings and the development of an informational website.

By this Notice, the Authority has provided DWR with all applicable information required by Water Code section 10723.8(a). If any further information is required, please contact Alan Christensen at 661-868-3183 or at the following email address: achristensen@co.kern.ca.us.

Sincerely,



Phillip W. Hall
General Counsel for the Indian Wells
Valley Groundwater Authority

cc: Indian Wells Valley Groundwater Authority

enclosures

Exhibit “A”

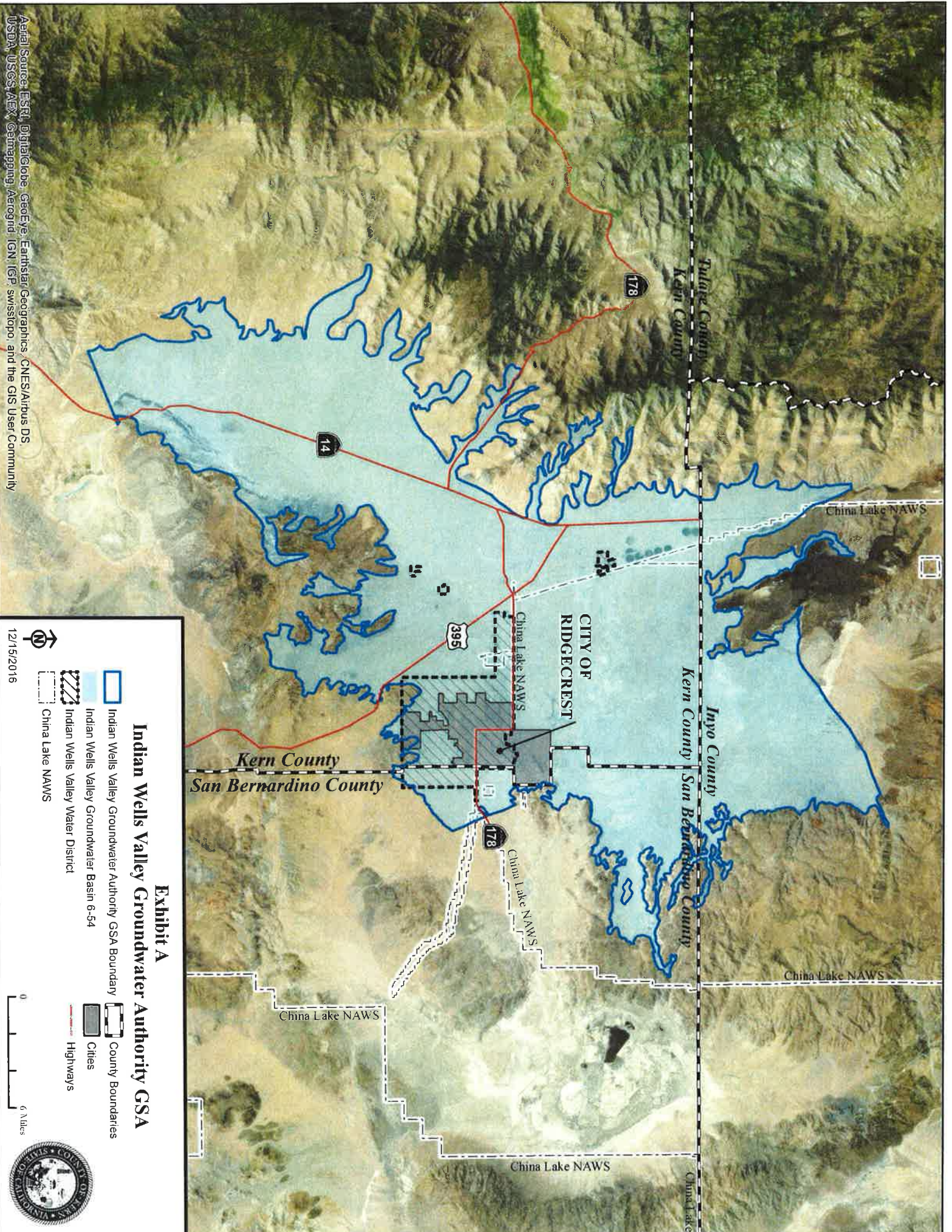


Exhibit A
Indian Wells Valley Groundwater Authority GSA

Indian Wells Valley Groundwater Authority GSA Boundary
 Indian Wells Valley Groundwater Basin 6-54
 Indian Wells Valley Water District
 China Lake NAWs
 Cities
 County Boundaries
 Highways

12/15/2016
 0 6 Miles

Aerial Source: ESRI, DigitalGlobe, GeoEye, Earthstar/Geographics, CNES/Airbus DS, USDA, USGS, AeroX, @marming, Aeroid, IGN, ICF, swisstopo, and the GIS User Community



Exhibit “B”

Kern County

Agt. # 852-2016

**JOINT EXERCISE OF
POWERS AGREEMENT**

creating the

**INDIAN WELLS VALLEY
GROUNDWATER AUTHORITY**

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INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

JOINT EXERCISE OF POWERS AGREEMENT

THIS JOINT EXERCISE OF POWERS AGREEMENT (“**Agreement**”) forming the Indian Wells Valley Groundwater Authority (“**Authority**”) is made and entered into as of July 15, 2016 (“**Effective Date**”), by and among the public agencies listed on the attached Exhibit “A” (collectively “**General Members**” and individually “**General Member**”) for the purpose of forming a Groundwater Sustainable Agency (“**GSA**”) and achieving groundwater sustainability in the Indian Wells Valley Groundwater Basin.

RECITALS

WHEREAS, the comprehensive groundwater legislation collectively enacted and referred to as the “Sustainable Groundwater Management Act” (“**SGMA**”) initially became effective on January 1, 2015.

WHEREAS, the stated purpose of SGMA, as set forth in California Water Code section 10720.1, is to provide for the sustainable management of groundwater basins at a local level by providing local groundwater agencies with the authority and technical and financial assistance necessary to sustainably manage groundwater.

WHEREAS, SGMA further provides for and anticipates that the local groundwater agencies and federal governmental entities overlying a basin will form Groundwater Sustainable Agencies (“**GSAs**”) for the purpose of achieving groundwater sustainability through the adoption and implementation of Groundwater Sustainability Plans (“**GSPs**”) for the basin.

WHEREAS, each of the General and Associate Members overlie a portion of the Indian Wells Valley Groundwater Basin (“**Basin**”) which is designated basin number 6-54 in Department of Water Resources Bulletin No. 118 and which is included on the list of critically overdrafted basins.

WHEREAS, SGMA requires that the Basin have a designated GSA by no later than June 30, 2017 and an adopted GSP by no later than January 31, 2020.

WHEREAS, the General Members are authorized by the Joint Exercise of Powers Act (Chapter 5 of Division 7 of Title 1 of the California Government Code) (“**Act**”) to create the Authority for the purpose of jointly exercising those powers granted by the Act and any additional powers which are common among them.

WHEREAS, the General and Associate Members, individually and collectively, have the goal of cost effective sustainable groundwater management that considers the interests and concerns of all of the communities and parties that rely upon the Basin for their water supply.

WHEREAS, the General Members hereby enter into this Agreement to establish this Joint Powers Authority to undertake the management of groundwater resources pursuant to SMGA.

AGREEMENT TERMS

NOW THEREFORE, in consideration of the matters recited and the mutual promises, covenants, and conditions set forth in this Agreement, the Associate Members having expressed their intent to enter into a memorandum of understanding with the Joint Powers Authority delineating their participation in the Authority, the General Members hereby agree as follows:

Article I: Definitions

Section 1.01 – Definitions.

As used in this Agreement, unless the context requires otherwise, the meaning of the terms hereinafter set forth shall be as follows:

(a) “Act” shall mean the Joint Exercise of Powers Act, set forth in Chapter 5 of Division 7 of Title 1 of the California Government Code, sections 6500, *et seq.*, including all laws supplemental thereto.

(b) “Agreement” means this Indian Wells Valley Ground Water Authority Joint Exercise of Powers Agreement.

(c) “Associate Member” or “Associate Members” shall refer to those federal governmental entities listed in the attached Exhibit “B”. Associate Members shall only consist of those federal governmental entities overlying the Basin who are authorized to participate in a GSA and whose willful participation is necessary because of, and limited by, legal principles such as sovereign immunity and/or the preemption doctrine. To the extent permitted by law and/or federal rules and regulations as they may be amended, “Associate Members” shall be afforded a representative non-Director’s seat on the Authority’s Board of Directors which will entitle them to full participation in the meetings and discussions of the Board. However, Associate Members shall not appoint Directors and they shall not have the power to vote on any action to be taken by the Authority or to become an officer of the Authority.

(d) “Authority” shall mean the Indian Wells Valley Groundwater Authority, which is a separate entity created by this Agreement pursuant to the provisions of California Government Code sections 6500 *et seq.*

(e) “Basin” shall mean the Indian Wells Valley Groundwater Basin which is designated basin number 6-54 in Department of Water Resources’ Bulletin No. 118 and as its boundaries may be modified from time to time through the procedures described in California Water Code section 10722.2.

(f) “Board of Directors” or “Board” shall mean the governing body of the Authority as established by Section 6.01 of this Agreement.

(g) "Bylaws" shall mean the bylaws adopted by the Board of Directors pursuant to Section 8.5 of this Agreement to govern the day-to-day operations of the Authority.

(h) "Fiscal Year" shall mean that period of 12 months established as the Fiscal Year of the Authority pursuant to Section 9.03 of this Agreement.

(i) "General Member" or "General Members" shall mean the eligible agencies listed in the attached Exhibit "A" that have executed this Agreement, including any new General Members that may subsequently join this Authority with the authorization of the Board, pursuant to Section 5.02 of this Agreement.

(j) "Groundwater Sustainability Agency" or "GSA" shall have the meaning set forth in California Water Code section 10721(j).

(k) "Groundwater Sustainability Plan" or "GSP" shall have the meaning set forth in California Water Code section 10721(k).

(l) "Primary Director" and "Alternate Director" shall mean a Primary Director or Alternate Director appointed by a General Member pursuant to Section 6.02 of this Agreement.

(m) "Regular Monthly Receivables" shall mean those costs and bills of the Authority, which are routine in nature and which have not been objected to by any Director either at the meeting or in writing prior to the meeting.

(n) "Special Activities" shall mean activities that are consistent with the purpose of this Agreement and which are done in the name of the Authority pursuant to Section 10.01 of this Agreement, but which are undertaken by fewer than all the General Members.

(o) "Sustainable Groundwater Management Act" or "SGMA" shall mean the comprehensive groundwater legislation collectively enacted and referred to as the "Sustainable Groundwater Management Act" ("SGMA") as codified in California Water Code sections 10720 *et seq.* and as may be amended in the future.

Article II: Authority Creation

Section 2.01 – Creation of the Authority.

There is hereby created a joint powers agency known as the Indian Wells Valley Groundwater Authority ("Authority"). The Authority shall be, to the extent provided by law, a public entity separate from the General Members of this Agreement.

Section 2.02 – Purpose of the Authority.

The purpose of this Agreement, and the creation of the Authority, is to provide for the joint exercise of powers common to the General Members, and those additional powers granted by SGMA, for the purpose of cooperatively carrying out the requirements of SGMA, including, but not limited to, serving as the GSA for the Basin and developing, adopting and implementing a GSP that achieves groundwater sustainability in the Basin.

Article III: Term

Section 3.01 – Term.

This Agreement shall become operative on the Effective Date provided that at least two of the General Members listed in Exhibit A have executed this Agreement by said date. If an eligible agency listed in Exhibit A has not executed this Agreement and paid their initial funding contribution called for in Section 9.02 by August 15, 2016, they will lose their right to join through execution of this Agreement and their membership will be subject to the process for inclusion of new General Members set forth in Section 5.02.

This Agreement shall remain in effect until terminated by the unanimous written consent of all then active General Members or there are less than two General Members remaining in the Authority; provided, however, that this Agreement shall remain in effect during the term of any contractual obligation or indebtedness of the Authority that was previously approved by the Board.

Article IV: Powers

Section 4.01 – Powers.

The Authority shall possess the ability to exercise those powers specifically granted by the Act. Additionally, the Authority shall possess the ability to exercise the common powers of its Members related to the purposes of the Authority, including and limited to the following:

- 4.01.1 To designate itself the GSA for the Basin pursuant to SGMA.
- 4.01.2 To develop, adopt and implement a GSP for the Basin pursuant to SGMA.
- 4.01.3 To adopt rules, regulations, policies, bylaws and procedures governing the operation of the Authority and the adoption and implementation of the GSP.
- 4.01.4 To contract for the services of engineers, attorneys, planners, financial consultants, and separate and apart therefrom to appoint agents and representatives to employ such other staff persons as necessary.
- 4.01.5 To collect and monitor all data related and beneficial to the development, adoption and implementation of the GSP for the Basin
- 4.01.6 To issue revenue bonds or other appropriate public or private debt and incur debts, liabilities or obligations in connection with the operation, maintenance, administration and management of any facilities required to carry out these purposes.
- 4.01.7 To levy assessments, charges and fees as provided in SGMA.

- 4.01.8 To regulate and monitor groundwater extractions as permitted by SGMA, provided that this provision does not extend to a General or Associate Member's operation of its system to distribute water once extracted or otherwise obtained, unless and to the extent required by other laws.
- 4.01.9 To establish and administer water banking programs for the benefit of the Basin.
- 4.01.10 To establish and administer water recycling, recapturing or purifying programs for the benefit of the Basin.
- 4.01.11 To cooperate, act in conjunction and contract with the United States, the State of California, or any agency thereof, counties, municipalities, public and private corporations of any kind (including without limitation, investor-owned utilities), and individuals, or any of them, for any and all purposes necessary or convenient for the full exercise of the powers of the Authority.
- 4.01.12 To accumulate operating and reserve funds and invest the same as allowed by law for the purposes of the Authority.
- 4.01.13 To apply for and accept grants, contributions, donations and loans under any federal, state or local programs for assistance in developing or implementing any of its projects or programs in connection with any project undertaken in the Authority's name for the purposes of the Authority.
- 4.01.14 To acquire by negotiation or condemnation, lease, purchase, construct, hold, manage, maintain, operate and dispose of any buildings, property, water rights, works or improvements within and without the respective boundaries of the General Members necessary to accomplish the purposes described herein.
- 4.01.15 To sue or be sued in its own name.
- 4.01.16 To invest funds pursuant to California Government Code section 6509.5 or other applicable State Law.
- 4.01.17 Any power necessary or incidental to the foregoing powers in the manner and according to the procedures provided for under the law applicable to the General Members to this Agreement.
- 4.01.18 Any additional powers conferred under SGMA or the Act or under applicable law, insofar as such powers are needed to accomplish the purposes of SGMA, including all powers granted to the Authority under Article 4 of the Act which are in addition to the common powers of the General Members, including the power to issue bonds or otherwise

incur debts, liabilities or obligations to the extent authorized by the Act or any other applicable provision of law and to pledge any property or revenues of the rights thereto as security for such bonds and other indebtedness.

Section 4.02 – Exercise of Powers.

In accordance with California Government Code section 6509, the foregoing powers shall be subject to the restrictions upon the manner of exercising such powers pertaining to the County of Kern.

Section 4.03 – Water Rights and Consideration of all Beneficial Uses and Users of Groundwater in the Basin.

As set forth in California Water Code section 10723.2, and any future amendments to SGMA, the GSA shall consider the interests of all beneficial uses and users of groundwater in the Basin, as well as those responsible for implementing the GSP. Additionally, as set forth in California Water Code section 10720.5(a), and any future amendments to SGMA, any GSP adopted pursuant to this Agreement shall be consistent with Section 2 of Article X of the California Constitution and nothing in this Agreement modifies the rights or priorities to use or store groundwater consistent with Section 2 of Article X of the California Constitution, with the exception that no extraction of groundwater between January 1, 2015 and the date the GSP is adopted may be used as evidence of, or to establish or defend against, any claim of prescription. Likewise, as set forth in California Water Code section 10720.5(b), and any future amendments to SGMA, nothing in this Agreement or any GSP adopted pursuant to this Agreement determines or alters surface water rights or groundwater rights under common law or any provision of law that determines or grants surface water rights.

Section 4.04 – Preservation of Police Powers.

Nothing set forth in this Agreement shall be deemed to modify or otherwise limit a county's or city's police powers in any way or its authority to regulate groundwater under existing law or any amendment thereto. The adopted GSP shall not authorize any water supply augmentation to the Basin with groundwater extracted from another groundwater basin within the jurisdiction of a General Member without the express approval of the Primary Director representing that General Member.

Article V: Membership

Section 5.01 – General Members.

The General Members of the Authority shall be the public agencies listed on the attached Exhibit "A", so long as their Membership has not been withdrawn or terminated pursuant to the provisions Article XI of this Agreement.

Section 5.02 – New General Members.

The Board may approve an application for a new General Member to the Authority through a vote of the Board so long as: 1) the new General Member is a public agency that is qualified to join the Authority under the provisions of SGMA and the Act; and, 2) the new General Member agrees to or has met any other conditions that the Board may establish from time to time.

Once an application is approved by the Board of Directors, the governing bodies for each of the General Members shall be sent the application for consideration and possible approval. For a new General Member to be admitted, the application must be approved by each of the governing bodies for the General Members. Upon final approval, the attached Exhibit "A" shall be amended to reflect the new General Member.

Section 5.03 – Associate Members.

The Associate Members of the Authority shall be those Federal Governmental Entities listed on the attached Exhibit "B" so long as their Membership has not been withdrawn or terminated pursuant to the provisions Article XI of this Agreement. Associate Members shall be afforded a representative non-voting seat on the Authority's Board of Directors which will entitle the representative to full participation in the meetings and discussions of the Board. However, representatives of Associate Members shall not be Directors, nor shall they become officers of the Authority and they shall not have the power to vote on any action and or proposal before the Board of Directors.

Article VI: Directors and Officers

Section 6.01 – Board of Directors.

The Authority shall be governed and administered by a Board of Directors ("Board") which is hereby established and which shall be composed of one voting seat per General Member. To the extent permitted by law and/or federal rules and regulations as they may be amended, Associate Members shall not be allowed to vote on any matter before the Board but they shall be afforded a representative non-voting seat on the Board, which will entitle them to full participation in the meetings and discussions of the Board and any Committees established by the Board.

Section 6.02 – Directors and Alternates.

Each General Member's governing body shall appoint one Primary Director and one Alternate Director. The Alternate Director shall serve and assume the rights and duties of the Primary Director when the Primary Director is unable to attend a Board meeting. The Primary and Alternate Directors for the County of Kern, Indian Wells Valley Water District and the City of Ridgecrest shall be elected members of their governing bodies. Primary Directors and Alternate Directors shall serve at the pleasure of the governing body appointing them and they may be removed at any time, with or without cause, in the sole discretion of their governing body. Each Primary Director and Alternate Director shall hold office until their successor is selected by their governing body and the Authority has been notified of the succession.

Section 6.03 – Officers of the Board.

Officers of the Authority’s Board shall consist of a Chairperson and Vice-Chairperson. The Chairperson shall preside at all meetings of the Board, while the Vice-Chairperson shall perform the duties of the Chairperson in the absence or disability of the Chairperson. The Chairperson and Vice-Chairperson shall exercise and perform such other powers and duties as may be assigned by the Board.

Section 6.04 – Appointment of Officers of the Board.

The Board shall annually elect the Officers of the Board from the Primary Directors. Officers of the Board shall hold office for a term of one year commencing on January 1 of each and every calendar year and they may serve for multiple consecutive terms. Officers of the Board may be removed and replaced at any time, with or without cause by a Board vote. In the event that an Officer of the Board loses their position as a Primary Director, that Officer of the Board position shall become vacant and Board shall elect a new individual to serve the remaining term.

Article VII: Board Meetings and Actions

Section 7.01 – Initial Meeting.

The initial meeting of the Board shall be held at a location overlying the Basin within forty five days (45) days of the Effective Date of this Agreement.

Section 7.02 – Regular Meeting Schedule.

The Board shall establish a regular meeting time and place at the initial meeting of the Board. The Board may vote to change the regular meeting time and place provided that the new location remains at a place overlying the Basin.

Section 7.03 – Special Meetings.

Special meetings of the Board shall be conducted pursuant to California Government Code section 54956 and they may be called by the Chairperson, or by the concurrence of any two Primary Directors.

Section 7.04 – Committees of the Board.

The Board may from time to time establish advisory committees for the purpose of making recommendations to the Board on the various activities of the Authority. The establishment of any committee and its duties shall require the vote of the Board of Directors and the activities of the committee shall be subject to the provisions of the Ralph M. Brown Act (California Government Code sections 54950, *et seq.*). Committees shall exist for the term specified in the action creating the committee and the Board may dissolve a committee at any time through a vote of the Board of Directors.

The Board shall ensure that the development of the GSP includes the meaningful participation of all water users in the Basin including but not limited to the General Members, Associate Members, regulated public water utilities, mutual water companies and other private well pumpers. The Board shall ensure this meaningful participation through the establishment of one or more committees which will contain members from the above groups so long as their participation does not violate the State ethics and conflict of interest laws, including California Government Code sections 1090 *et seq.*, or any other law.

Section 7.05 – Conduct of Board and Committees of the Board Meetings.

All meetings of the Board of Directors, including special meetings and Board committee meetings, shall be noticed, held, and conducted in accordance with the provisions of the Ralph M. Brown Act (California Government Code sections 54950, *et seq.*). The Board may use teleconferencing in connection with any meeting in conformance with, and to the extent authorized by, applicable law. The Board may further establish rules of conduct for its meetings provided that said rules do not conflict with the Ralph M. Brown Act or other applicable law.

All meetings of Committees of the Board that are formed in accordance with Section 7.04 shall be noticed, held, and conducted in accordance with the provisions of the Ralph M. Brown Act (California Government Code sections 54950, *et seq.*). A Committee may use teleconferencing in connection with any meeting in conformance with, and to the extent authorized by, applicable law. The Board may further establish rules of conduct for Committees of the Board meetings provided that said rules do not conflict with the Ralph M. Brown Act or other applicable law.

Section 7.06 – Quorum.

A quorum of the Board shall consist of majority of the Directors representing the then active General Members. In the absence of a quorum, no business may be transacted beyond the adjournment of a meeting by the remaining Directors. A Director shall be deemed present for the determination of a quorum if the Director is present at the meeting in person or if they participate in the meeting telephonically as provided for by Ralph M. Brown Act.

Section 7.07 – Voting.

The affirmative vote of a majority of the Board shall be required for the approval of any Board action. In addition, no action may be approved by the Board unless it receives the affirmative vote from no less than two of the then voting Directors representing the County of Kern, the City of Ridgecrest and/or the Indian Wells Valley Water District.

Notwithstanding the foregoing, the Board may approve the Regular Monthly Receivables by a simple majority vote so long as the routine costs and bills making up the Regular Monthly Receivables have not been objected to by any Director. While a Director may voice an oral objection at the meeting, a Director's presence is not required and they may also file an objection in writing prior to the meeting. Likewise, any meeting of the Board may be adjourned by a simple majority vote of the then present Directors.

Section 7.08 – GSP Adoption, Modification, or Alteration.

The final adoption of a GSP and the modification and/or alteration of any adopted GSP shall require the affirmative vote of at least 4/5ths of the General Members on the Board, unless a General Member's Director abstains or recuses himself or herself from the matter. In the event a General Member's Director abstains or recuses himself or herself, the voting requirement shall become 3/4ths. In the event that two General Member Directors abstain and/or recuse themselves, the voting requirement shall become 2/3rds.

Section 7.09 – Minutes.

The Board shall cause minutes to be kept of all public meetings of the Board and any Board appointed Committees. The Board shall further cause a copy of draft minutes to be forwarded to each Director and to each General Member Agency.

Article VIII: Operations and Management

Section 8.01 – Administrator.

The Authority may appoint an Administrator, from time-to-time as and when it deems appropriate. If appointed, the Administrator shall serve at the pleasure of the Board of Directors and their duties and responsibilities shall be set forth via a vote of the Board.

Section 8.02 – Legal Counsel and Other Officers.

The Authority may appoint General Legal Counsel who shall serve at the pleasure of the Board via a vote of the Board. Subject to the limits of the Authority's approved budget, the Board shall also have the power to appoint and contract via a vote of the Board for the services of other officers, consultants, advisers and independent contractors as it may deem necessary or convenient for the business of the Authority, all of whom shall serve at the pleasure of the Board.

Section 8.03 – Employees and Management.

In addition to, or in lieu of, hiring employees, the Authority may engage one or more General Members to manage any or all of the business of the Authority on terms and conditions acceptable to the Board of Directors. Any General Member so engaged shall have such responsibilities as are set forth in the contract for such General Member's services, which shall be approved by a majority vote of the Directors representing the non-contracting Members.

Section 8.04 – Principal Office.

At the initial meeting of Board, the Board shall establish a principal office for the Authority, which shall be located at a place overlying the Basin. The Board may change the principal office from time to time as the Board sees fit so long as that principal office remains at a location overlying the Basin.

Section 8.05 – Bylaws.

The Board shall adopt Bylaws governing the conduct of meetings and the day-to-day operations of the Authority on or before the first anniversary of the Effective Date. The Bylaws may be amended from time to time as the Board deems necessary.

Section 8.06 – Official Seal and Letterhead.

The Board may adopt, and/or amend, an official seal and letterhead for the Authority by a vote of the Directors.

Section 8.07 – Conflict of Interest Code.

At the initial meeting of Board, the Board shall begin the process for the adoption and filing of a Conflict of Interest Code pursuant to the provisions of the Political Reform Act of 1974.

Article IX: Financial Provisions

Section 9.01 – Establishment of Funds.

The Board shall establish and maintain such funds and accounts as may be required by generally accepted public agency accounting practices. The Authority shall maintain strict accountability of all funds and report of all receipts and disbursements of the Authority.

Section 9.02 – Initial Funding Payments.

In order to provide the needed capital to initially fund the Authority, the General Members shall each provide an initial contribution of \$15,000 due upon their execution of this Agreement. To the extent the Authority is able to secure other funding sources in the future, and to the extent permitted by law, the Authority shall reimburse the initial contributions on a proportionate basis.

Notwithstanding the equal amount of initial funds contributed by each of the General Members, the parties intend for future funding contributions to be allocated on a fair, proportional basis (e.g., irrigated acreage, groundwater pumping, population, and/or number of wells).

Section 9.03 – Fiscal Year.

The Fiscal Year of the Authority shall be from January 1 through December 31 of each year. If the Board so desires, it may change the Fiscal Year.

Section 9.04 – Fiscal Agent and Treasurer.

The County of Kern shall serve as the Fiscal Agent and Treasurer for the Authority unless otherwise directed by a vote of the Board of Directors. The Fiscal Agent shall be responsible for all money of the Authority from whatever source. All funds of the Authority shall be strictly and separately accounted for and regular reports shall be rendered of all receipts

and disbursements during the Fiscal Year as designated by the Board. The books and records of the Authority shall be open to inspection by the General Members.

Section 9.05 – Funds; Property; Bonds.

The Board shall from time to time designate the officers and persons, in addition to those specified in Section 9.04 above, who shall have charge of, handle, or have access to any funds and/or property of the Authority. Each such officer and person shall file a bond in an amount designated by the Board.

Section 9.06 – Audit Duties.

The Board shall contract with a certified public accountant to audit the accounts and records of the Authority as required by applicable accounting practices and the Act.

Section 9.07 – Budget.

By a date no later than January 1, 2017, and sixty (60) days before the end of each Fiscal Year thereafter, the Board shall adopt a budget for the Authority for the ensuing Fiscal Year. The Board may authorize mid-year budget adjustments, as needed.

Notwithstanding Section 11.04, a General Member shall not be fiscally liable for any adopted or modified budget or budget item(s) provided that the General Member's Director provides written notice within fourteen (14) days of the adoption or modification of the budget or a budget item that the Director intends to recommend to their board that the General Member withdraw from this Agreement. The notice provided in this section shall serve to limit the General Member's fiscal liability for the contested budget or budget item(s) so long as the General Member's board formally votes to withdraw from this Agreement within sixty (60) days of the adoption or modification of the budget or budget item(s).

Section 9.08 – Payments To The Authority.

(a) All fees, costs and expenses incurred by the Authority shall be funded from: (i) voluntary contributions from third parties, such as grants; (ii) assessments on the General Members, levied from time to time by the Board to carry out the activities of the Authority generally applicable to all Members; and, (iii) assessments, fees and/or charges levied by the Authority under the provisions of SGMA.

(b) No General Member shall be bound, financially or otherwise, by any obligation, contract or activity undertaken by the Authority unless and except to the extent agreed upon by the General Member, except that each General Member shall be obligated to fund its then current annual share of the general basic budget of the Authority, provided such budgets are otherwise approved as provided herein. Funding of other matters shall be through Special Activity agreements or as otherwise agreed to by the General and Associate Members.

(c) The Associate Members cannot contribute direct funding to the Authority however they will assist in project development technical support, and information sharing including field studies/data, as appropriate.

Article X: Special Activities

Section 10.01 – Special Activities.

With the prior approval of the Board, General Members may undertake Special Activities in the name of the Authority. Prior to undertaking a Special Activity, the General Members electing to participate in the Special Activity shall enter into an activity agreement. Such activity agreement shall provide that: (i) no Special Activity undertaken pursuant to such agreement shall conflict with the terms of this Agreement; and, (ii) the General Members to the activity agreement shall indemnify, defend and hold the other parties to this Agreement and the Authority harmless from and against any liabilities, costs or expenses of any kind arising as a result of the Special Activity described in the activity agreement. All assets, rights, benefits, debts, liabilities and obligations attributable to a Special Activity shall be assets, rights, benefits, debts, liabilities and obligations solely of the General Members that have entered into the activity agreement for that Special Activity, in accordance with the terms of the activity agreement, and shall not be the assets, rights, benefits, debts, liabilities and obligations of those General and Associate Members that have not executed the activity agreement. General and Associate Members not electing to participate in the Special Activity shall have no rights, benefits, debts, liabilities or obligations attributable to such Special Activity.

Article XI: Relationship of Authority And Its Members

Section 11.01 – Separate Entity.

In accordance with California Government Code Sections 6506 and 6507, the Authority shall be a public entity separate and apart from the parties to this Agreement.

Section 11.02 – Liabilities.

The General Members do not intend hereby to be obligated either jointly or severally for the debts, liabilities or obligations of the Authority, except as may be specifically provided for in California Government Code Section 895.2 as amended or supplemented. Therefore unless, and to the extent otherwise required by law or agreed to herein by the General Members, the debts, liabilities and obligations of the Authority shall not be debts, liabilities or obligations of the General Member entities. The Authority shall own and hold title to all funds, property and works acquired by it during the term of this Agreement.

Section 11.03 – Indemnity.

Funds of the Authority may be used to defend, indemnify, and hold harmless the Authority, each General Member, each Director, and any officers, agents and employees of the Authority for their actions taken within the course and scope of their duties while acting on behalf of the Authority. Other than for gross negligence or intentional acts, to the fullest extent permitted by law, the Authority agrees to save, indemnify, defend and hold harmless each General Member from any liability, claims, suits, actions, arbitration proceedings, administrative proceedings, regulatory proceedings, losses, expenses or costs of any kind, whether actual, alleged or threatened, including attorney's fees and costs, court costs, interest, defense costs, and expert witness fees, where the same arise out of, or are attributable in whole or in part, to

negligent acts or omissions of the Authority or its employees, officers or agents or the employees, officers or agents of any General Member, while acting within the course and scope of a General Member relationship with the Authority.

Section 11.04 – Withdrawal of Members.

Any General and/or Associate Member shall the have the ability to withdraw by providing forty-five (45) days written notice of its intention to withdraw. Said notice shall be given to the Board and to each of the other General and Associate Members. In the event of a withdrawal, this Agreement shall continue in full force and effect among the remaining members as set forth in Section 11.06 below.

Section 11.05 – Termination of Members.

The Board may vote to terminate any Member for cause including, but not limited to, the failure to meet its funding obligations set forth in this Agreement or future actions of the Board. In the event of a termination, this Agreement shall continue in full force and effect among the remaining members as set forth in Section 11.06 below.

Section 11.06 – Continuing Obligations upon Withdrawal or Termination.

Except as provided for in Section 9.07, any withdrawal or termination of a General Member, shall not relieve the General Member of its financial obligations (including, but not limited to, indemnity obligations, capital costs, debt obligations, CalPERS unfunded Liability, or any net operations and maintenance costs resulting from such withdrawal) arising under this Agreement prior to the effective date of the withdrawal or termination.

The withdrawal or termination of one or more General Members, shall not terminate this Agreement or result in the dissolution of the Authority. This Agreement shall remain in full force and effect among the remaining members, following the withdrawal or termination of any General Member, and the Authority shall remain in operation provided that there are at least two General Members remaining in this Agreement.

Section 11.07 – Dissolution.

The Authority may be dissolved at any time upon the unanimous vote of the Board and approval of the General Members' governing boards. However, the Authority shall not be dissolved until all debts and liabilities of the Authority have been eliminated. Upon dissolution of the Authority, each General Member shall receive its proportionate share of any remaining assets after all Authority liabilities and obligations have been paid in full. The distribution of remaining assets may be made "in kind" or assets may be sold and the proceeds thereof distributed to the General Members. This distribution shall occur within a reasonable time after dissolution. No former member which previously withdrew or was terminated shall be entitled to a distribution upon dissolution.

Section 11.08 – Disposition of Property Upon Termination of Authority or Board Determination of Surplus.

Upon termination of this Agreement or upon determination by the Board that any surplus money is on hand, such surplus money shall be returned to the then General Members of the Authority that contributed such monies in proportion to their contributions. The Board shall first offer any surplus properties, works, rights and interests of the Authority for sale to the individual General Member and the sale shall be based on highest bid. If no such sale is consummated, the Board shall offer the surplus properties, works, rights and interests of the Authority for sale in accordance with applicable law to any governmental agency, private entity or persons for good and adequate consideration.

Article XII: Miscellaneous Provisions

Section 12.01 – Agreement Complete.

The foregoing constitutes the full and complete Agreement of the General Members. This Agreement supersedes all prior agreements and understandings, whether in writing or oral, related to the subject matter of this Agreement that are not set forth in writing herein.

Section 12.02 – Amendment.

This Agreement may be amended from time to time by the unanimous consent of the General Members, acting through their governing bodies.

Section 12.03 – Assignment.

Except as otherwise provided in this Agreement, the rights and duties of the General Members may not be assigned or delegated without the advance written consent of all the other General Members, and any attempt to assign or delegate such rights or duties in contravention of this section shall be null and void. Any assignment or delegation permitted under the terms of this Agreement shall be consistent with the terms of any contracts, resolutions or indentures of the Authority then in effect. This Agreement shall inure to the benefit of and be binding upon the successors and assigns of the General Members hereto. This section does not prohibit a General Member from entering into an independent agreement with another agency regarding the financing of that General Member's contributions to the Authority or the disposition of proceeds, which that General Member receives under this Agreement so long as such independent agreement does not affect, or purport to affect, the rights and duties of the Authority or the General Members under this Agreement.

Section 12.04 – Dispute Resolution.

In the event there are disputes and/or controversies relating to the interpretation, construction, performance, termination, breach of, or withdrawal from this Agreement, the General Members involved shall in good faith meet and confer amongst themselves in an attempt to informally resolve such matter(s). If the General Members are unsuccessful in resolving such matter(s) through an informal meeting process, they shall attempt to resolve such matter(s) through mediation. If they are unable to resolve such matter(s) through mediation, they may

attempt to settle such issue(s) by arbitration under the rules and regulations of the American Arbitration Association or they may exercise whatever other legal rights and remedies they may have in court. Any party requesting arbitration under this Agreement must make a request on the other General Members by registered or certified mail with a copy to the American Arbitration Association.

Section 12.05 – Execution In Parts Or Counterparts.

This Agreement may be executed in parts or counterparts, each part or counterpart being an exact duplicate of all other parts or counterparts, and all parts or counterparts shall be considered as constituting one complete original and may be attached together when executed by the General Members hereto. Facsimile or electronic signatures shall be binding.

Section 12.06 – Member Authorization.

The governing bodies of the General Members have each authorized execution of this Agreement, as evidenced by their respective signatures below.

Section 12.07 – No Predetermination or Irretrievable Commitment of Resources.

Nothing herein shall constitute a determination by the Authority or any of its General and Associate Members that any action shall be undertaken or that any unconditional or irretrievable commitment of resources shall be made, until such time as the required compliance with all local, state, or federal laws, including without limitation the California Environmental Quality Act, National Environmental Policy Act, or permit requirements, as applicable, have been completed.

Section 12.08 – Notices.

Notices authorized or required to be given pursuant to this Agreement shall be in writing and shall be deemed to have been given when mailed, postage prepaid, or delivered during working hours to the addresses set forth for each of the Members hereto on Exhibit "A" of this Agreement, or to such other changed addresses communicated to the Authority and the General and Associate Members in writing.

Section 12.09 – Severability And Validity Of Agreement.

Should the participation of any General and/or Associate Member to this Agreement, or any part, term or provision of this Agreement be decided by the courts or the legislature to be illegal, in excess of that Member's authority, in conflict with any law of the State of California, or otherwise rendered unenforceable or ineffectual, the validity of the remaining portions, terms or provisions of this Agreement shall not be affected thereby and each Member hereby agrees it would have entered into this Agreement upon the same remaining terms as provided herein.

Section 12.10 – Singular Includes Plural.

Whenever used in this Agreement, the singular form of any term includes the plural form and the plural form includes the singular form.

IN WITNESS WHEREOF, the Members hereto, pursuant to resolutions duly and regularly adopted by their respective Board of Directors or governing board, have caused their names to be affixed by their proper and respective officers as of the day and year first above-written.

CITY OF RIDGECREST

By: _____
Peggy Breeden, Mayor

APPROVED AS TO FORM:

By: _____
City Attorney

ATTEST:

By: _____
Secretary

COUNTY OF INYO

By: _____
Jeff Griffiths, Chairman
County of Inyo Board of Supervisors

APPROVED AS TO FORM:

By: _____
Marshall Rudolph, County Counsel

COUNTY OF KERN

By: _____
Mick Gleason, Chairman
County of Kern Board of Supervisors

APPROVED AS TO FORM:
OFFICE OF COUNTY COUNSEL

By: _____
Philip Hall, Deputy County Counsel

APPROVED AND RECOMMENDED:
COUNTY ADMINISTRATIVE OFFICE

By: _____
Alan Christensen, Chief Deputy
CAO for Water Resources

COUNTY OF SAN BERNARDINO

By: James Ramos
James Ramos, Chairman
County of San Bernardino Board of Supervisors

APPROVED AS TO FORM:
OFFICE OF COUNTY COUNSEL

SIGNED AND CERTIFIED THAT A COPY OF
THIS DOCUMENT HAS BEEN DELIVERED
TO THE CHAIRMAN OF THE BOARD
LAURA H. WELCH
Clerk of the Board of Supervisors
of the County of San Bernardino

By: Sophie Akins
Sophie Akins, Deputy County Counsel

By: Laura H. Welch
Laura H. Welch, Clerk of the Board

**INDIAN WELLS VALLEY
WATER DISTRICT**

APPROVED AS TO FORM:

By: _____
Don Cortichiato, President of the Board
of Directors

By: _____
James A. Worth, General Counsel

EXHIBIT A

GENERAL MEMBERS

City of Ridgecrest

City Clerk
100 W. California Avenue
Ridgecrest, CA 93555

County of Inyo

Clerk of the Board of Supervisors
P.O. Drawer N
Independence, CA 93526

County of Kern

Clerk of the Board of Supervisors,
Administrative Center
1115 Truxtun Avenue, 5th Floor
Bakersfield CA 93301

County of San Bernardino

Clerk of the Board of Supervisors
385 N. Arrowhead Ave, 2nd Floor
San Bernardino, CA 92415-0130

Indian Wells Valley Water District

General Manager
500 W. Ridgecrest Boulevard
Ridgecrest, CA 93555

EXHIBIT B

ASSOCIATE MEMBERS

**United States Department of the Interior
Bureau of Land Management**

**United States Navy
Naval Air Weapons Station China Lake**

Exhibit “C”

PROOF OF PUBLICATION

The BAKERSFIELD CALIFORNIAN
P.O. BOX 440
BAKERSFIELD, CA 93302

Ad Number: 14263705 PO #:
Edition: 1TBC Run Times 2
Class Code Legal Notices
Start Date 11/24/2016 Stop Date 12/1/2016
Billing Lines 19 Inches 114.92
Total Cost \$ 129.00 Account 1KCO45
Billing CLERK OF BOARD OF SUPERVISOR
Address 1115 TRUXTUN AVE 5TH FL
BAKERSFIELD,CA 93301

CLERK OF BOARD OF SUPERVISORS
1115 TRUXTUN AVE 5TH FL
BAKERSFIELD, CA 93301

STATE OF CALIFORNIA
COUNTY OF KERN

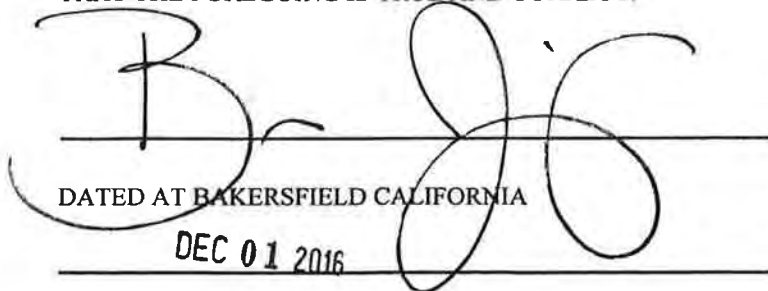
I AM A CITIZEN OF THE UNITED STATES AND A RESIDENT OF THE COUNTY AFORESAID; I AM OVER THE AGE OF EIGHTEEN YEARS, AND NOT A PARTY TO OR INTERESTED IN THE ABOVE ENTITLED MATTER. I AM THE ASSISTANT PRINCIPAL CLERK OF THE PRINTER OF THE BAKERSFIELD CALIFORNIAN, A NEWSPAPER OF GENERAL CIRCULATION, PRINTED AND PUBLISHED DAILY IN THE CITY OF BAKERSFIELD COUNTY OF KERN,

AND WHICH NEWSPAPER HAS BEEN ADJUDGED A NEWSPAPER OF GENERAL CIRCULATION BY THE SUPERIOR COURT OF THE COUNTY OF KERN, STATE OF CALIFORNIA, UNDER DATE OF FEBRUARY 5, 1952, CASE NUMBER 57610; THAT THE NOTICE, OF WHICH THE ANNEXED IS A PRINTED COPY, HAS BEEN PUBLISHED IN EACH REGULAR AND ENTIRE ISSUE OF SAID NEWSPAPER AND NOT IN ANY SUPPLEMENT THEREOF ON THE FOLLOWING DATES, TO WIT:

11/24/16
12/1/16

ALL IN YEAR 2016

I CERTIFY (OR DECLARE) UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.


DATED AT BAKERSFIELD CALIFORNIA
DEC 01 2016

Solicitor I.D.: 0

First Text
NOTICE OF PUBLIC HEARING ON THE INDIAN W

Ad Number 14263705

NOTICE OF PUBLIC HEARING ON THE INDIAN WELLS VALLEY GROUNDWATER AUTHORITY'S ELECTION TO BECOME A GROUNDWATER SUSTAINABILITY AGENCY
NOTICE IS HEREBY GIVEN that pursuant to California Water Code section 10723(b), the Board of the Indian Wells Valley Groundwater Authority shall hold a public hearing on December 8, 2016, at 10:00 a.m. at three locations: 1) Ridgecrest City Council Chambers located at 100 California Avenue, Ridgecrest, California 93555; 2) Multi-Purpose Conference Room High Desert Government Center, 15900 Smoke Tree Street, 2nd Floor Hesperia, CA 92345; and 3) Inyo County Water Department Conference Room, 135 South Jackson Street, Independence, CA 93526. The Board will consider and determine at the public hearing whether the Authority shall file to become a Groundwater Sustainability Agency pursuant to the Sustainable Groundwater Management Act for the Indian Wells Valley Groundwater Basin. Written comments may be submitted prior to the hearing by mail or hand delivery to Lauren Duffy, Indian Wells Valley Water District at 500 Ridgecrest Blvd, Ridgecrest, California 93555. The Board shall also consider oral and written comments received during the hearing but the presiding officer may limit oral comments to a reasonable length.
November 24, December 1, 2016
14263705

16 DEC 12 PM 2:02

FILED
THE
BY
OF
COURT
CLERK

SUPERIOR COURT OF THE STATE OF CALIFORNIA
FOR THE COUNTY OF KERN

Notice of
Public Hearing
Groundwater

Case Number _____

DECLARATION
OF PUBLICATION
(2015.5 C.C.P.)

State of California, County of Kern, ss:

Declarant says:

That at all times, herein mentioned declarant is and was a citizen of the United States, over the age of twenty-one years, and not a party to nor interested in the within matter; that declarant is the principal clerk of the printer and the publisher of THE DAILY INDEPENDENT, a newspaper of general circulation printed and published daily in the City of Ridgecrest, Indian Wells Judicial District, County of Kern, State of California, which newspaper has been adjudged a newspaper of general circulation by the said Superior Court by order made and renewed July 8, 1952, in Civil Proceeding No. 58584 of said Court: that the instrument of which the annexed in a printed copy has been published in each regular and like issue of said newspaper (and not any supplement thereof) on the following dates, to-wit:

11-29-16

12-6-16

I declare under penalty of perjury that the foregoing is true and correct.

EXECUTED ON December 6, 2016, at
Ridgecrest California.

Declarant [Signature]

NOTICE OF PUBLIC HEARING ON THE INDIAN WELLS VALLEY GROUNDWATER AUTHORITY'S ELECTION TO BECOME A GROUNDWATER SUSTAINABILITY AGENCY

NOTICE IS HEREBY GIVEN that pursuant to California Water Code section 10723(b), the Board

of the Indian Wells Valley Groundwater Authority shall hold a public hearing on December 8, 2016, at 10:00 a.m. at three locations: 1) Ridgecrest City Council Chambers located at 100 California Avenue, Ridgecrest, California 93555; 2) Multi-Purpose Conference Room High Desert Government Center, 15900 Smoke Tree Street, 2nd Floor Hesperia, CA 92345; and 3) Inyo County Water Department Conference Room, 135 South Jackson Street, Independence, CA 93526. The Board will consider and determine at the public hearing whether the Authority shall file to become a Groundwater Sustainability Agency pursuant to the Sustainable Groundwater Management Act for the Indian Wells Valley Groundwater Basin. Written comments may be submitted prior to the hearing by mail or hand delivery to Lauren Duffy, Indian Wells Valley Water District at 500 Ridgecrest Blvd, Ridgecrest, California 93555. The Board shall also consider oral and written comments received during the hearing but the presiding officer may limit oral comments to a reasonable length.

(11/29, 12/06/2016)

PROOF OF PUBLICATION

(2015.5 C.C.P.)

**STATE OF CALIFORNIA,
County of San Bernardino**

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk of the publisher of the DAILY PRESS, a newspaper of general circulation, published in the City of Victorville, County of San Bernardino, and which newspaper has been adjudicated a newspaper of general circulation by the Superior Court of the County of San Bernardino, State of California, under the date of November 21, 1938, Case number 43096, that the notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

November 23 and 30

All in the year 2016.

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated this: 30th day of November, 2016.



Signature

Leslie Jacobs



This space is the County Clerk's Filing Stamp

**Proof of Publication of
NOTICE OF PUBLIC
HEARING**

**NOTICE OF PUBLIC
HEARING ON THE
INDIAN WELLS
VALLEY
GROUNDWATER
AUTHORITY'S
ELECTION TO BECOME
A GROUNDWATER
SUSTAINABILITY
AGENCY**

NOTICE IS HEREBY GIVEN that pursuant to California Water Code section 10723(b), the Board of the Indian Wells Valley Groundwater Authority shall hold a public hearing on December 8, 2016, at 10:00 a.m. in the Ridgcrest City Council Chambers located 100 California Avenue, Ridgcrest, California 92555 to consider and determine whether the Authority shall file to become a Groundwater Sustainability Agency pursuant to the Sustainable Groundwater Management Act for the Indian Wells Valley Groundwater Basin. Written comments may be submitted prior to the hearing by mail or hand delivery to Lauren Duffy, Indian Wells Valley Water District at 500 Ridgcrest Blvd, Ridgcrest, California 92555. The Board shall also consider oral and written comments received during the hearing but the presiding officer may limit oral comments to a reasonable length. Members of the public in San Bernardino County wishing to listen to the public hearing and/or submit oral comment by telephone may do so at the following location: Jerry Lewis High Desert Government Center, 15900 Smoke Tree Street, 2nd Floor, Multi-Purpose Conference Room No. 221, Hesperia, California 92345.

Dated: November 23, 2016
LAURA H. WELCH
Clerk of the
Board of Supervisors
County of San Bernardino,
State of California
11/23, 11/30/16
CNS-2948408H
DAILY PRESS

Published in the
Daily Press
November 23, 30, 2016
(w,01)

PROOF OF PUBLICATION

(2015.5 C.C.P.)

STATE OF CALIFORNIA,
COUNTY OF INYO

I am a citizen of the United States and a resident of the County aforesaid. I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of the
The Inyo Register

This space is for County Clerk's Filing Stamp

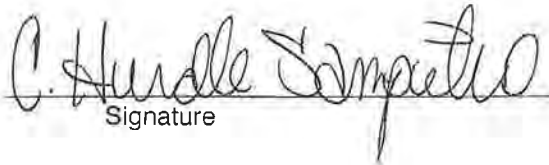
County of Inyo

The Inyo Register has been adjudged a newspaper of general circulation by the Superior Court of the County of Inyo, State of California, under date of Oct. 5, 1953, Case Number 5414; that the notice, of which the annexed is a printed copy (set in type not smaller than non-pareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof, on the

NOVEMBER 24 AND DECEMBER 1

in the year **2016**

I certify (or declare) under penalty of perjury
14TH Day of **DECEMBER, 2016**


Signature

Proof of Publication of Public Notice

NOTICE OF PUBLIC HEARING
ON THE INDIAN WELLS VALLEY
GROUNDWATER AUTHORITY'S
ELECTION TO BECOME A
GROUNDWATER SUSTAINABIL-
ITY AGENCY

NOTICE IS HEREBY GIVEN that pursuant to California Water Code section 10723(b), the Board of the Indian Wells Valley Groundwater Authority shall hold a public hearing on December 8, 2016, at 10:00 a.m. at three locations: 1) Ridgecrest City Council Chambers located at 100 California Avenue, Ridgecrest, California 93555; 2) Multi-Purpose Conference Room High Desert Government Center, 15900 Smoke Tree Street, 2nd Floor Hesperia, CA 92345; and 3) Inyo County Water Department Conference Room, 135 South Jackson Street, Independence, CA 93526. The Board will consider and determine at the public hearing whether the Authority shall file to become a Groundwater Sustainability Agency pursuant to the Sustainable Groundwater Management Act for the Indian Wells Valley Groundwater Basin. Written comments may be submitted prior to the hearing by mail or hand delivery to Lauren Duffy, Indian Wells Valley Water District at 500 Ridgecrest Blvd, Ridgecrest, California 93555. The Board shall also consider oral and written comments received during the hearing but the presiding officer may limit oral comments to a reasonable length. (IR 11/24, 12/1/16, #12640)

Exhibit “D”

**BEFORE THE BOARD OF DIRECTORS
INDIAN WELLS VALLEY GROUNDWATER AUTHORITY**

In the matter of:

Resolution No. 02-16

**RESOLUTION ELECTING TO BECOME A
GROUNDWATER SUSTAINABILITY AGENCY
FOR THE ENTIRETY OF THE INDIAN WELLS
VALLEY GROUNDWATER BASIN.**

I, Lauren Duffy, Clerk of the Board of Directors for the Indian Wells Valley Groundwater Authority, do certify that the following resolution, on motion of Director Brown , seconded by Director Breeden, was duly passed and adopted by the Board of Directors at an official meeting this 8th day of December, 2016, by the following vote:

AYES: Peggy Breeden, Peter Brown, Mick Gleason, Matt Kingsley, BobPage

NOES: None.

ABSENT: None.



Clerk of the Board of Directors
Indian Wells Valley Groundwater Authority

RESOLUTION

Section 1. WHEREAS:

(a) The comprehensive groundwater legislation referred to as the "Sustainable Groundwater Management Act" (SGMA) was signed into law on September 16, 2014 with an effective date of January 1, 2015, and codified at California Water Code sections 10720 *et seq.*; and

(b) The stated purpose of SGMA, as set forth in California Water Code Section 10720.1, is to provide for the sustainable management of groundwater basins, and subbasins, as defined by the California Department of Water Resources at a local level by providing local water supply, water management and land use agencies with the authority and technical and financial

assistance necessary to sustainably manage groundwater; and

(c) SGMA further provides for and anticipates that eligible local agencies overlying basins that are designated by California Department of Water Resources (DWR) as "high or medium priority" will form Groundwater Sustainable Agencies ("GSAs") for the purpose of achieving groundwater sustainability through the adoption and implementation of Groundwater Sustainability Plans ("GSPs"); and

(d) Water Code section 10723(a) authorizes local agencies with water supply, water management or local land use responsibilities, or a combination of those local agencies, overlying a groundwater basin to elect to become a GSA; and

(e) Water Code section 10735.2(a) provides that the State Board may designate the Basin as probationary if any portion of the Basin is not covered by a GSA before June 30, 2017; and

(f) The general members of the Indian Wells Valley Groundwater Authority (all of which fall within the SGMA definition of a GSA eligible agency) formed the Authority for, and with, the express purpose of forming a GSA for the entirety of the adjudicated groundwater basin known as Indian Wells Valley Groundwater Basin (Basin); and

(g) The combined political boundaries of the general members overly the entirety of the Basin, which is designated in DWR Bulletin 118 as Basin No. 6-54 and which is included on the list of critically overdrafted basins; and

(h) Staff has reviewed this matter and determined that this matter is exempt from further CEQA review pursuant CEQA Guideline section 15061(b)(3) because it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment and CEQA Guideline section 15378(b)(5) because the matter is an organizational activity that will not result in a direct or indirect physical change in the environment; and

(i) As required by Water Code section 10723(b), the notice of public hearing to consider this election to become a GSA for the Basin was published pursuant to Government Code section 6066 in The Bakersfield Californian, The Inyo Register, and The Daily Press; and

(j) On December 8, 2016, the Board of Directors properly held the noticed public hearing required by Water Code section 10723(b) at 10:00 a.m. in the City Council Chambers for the City of Ridgecrest, 100 West California Avenue, Ridgecrest, CA 93555; and the Inyo County Water Department Conference Room, 135 Jackson Street, Independence, CA, 93526; and Jerry Lewis High Desert Government Center, 15900 Smoke Tree Street, 2nd Floor, Multi-Purpose Conference Room No. 221, Hesperia, California 92345.

Section 2. IT IS RESOLVED by the Board of Indian Wells Valley Groundwater Authority,

State of California, as follows:

1. This Board finds that the recited facts are true and that it has the jurisdiction to consider, approve, and adopt this Resolution.
2. This Board incorporates and makes all the findings recommended by staff, whether verbally or in their written reports.
3. This Board finds and determines that the applicable provisions of the California Environmental Quality Act of 1970 ("CEQA"), the State CEQA Guidelines, and the Kern County Guidelines have been observed in conjunction with the hearing and the considerations of this matter and it is exempt from further CEQA review pursuant Sections 15061(b)(3) and 15378(b)(5).
4. This Board hereby elects to form a GSA for the entirety of the Basin.
5. As required by Water Code section 10723.2, the Authority shall consider the interests of all beneficial uses and users of groundwater in the Basin.
6. As required by Water Code section 10723.4, the Authority shall establish and maintain a list of all persons and entities interested in receiving notices regarding the GSP preparation, meetings, announcements, and the availability of draft plans, maps and other relevant documents.
7. Counsel is directed to ensure that the notice of GSA formation, and all required supporting documentation, is submitted to California Department of Water Resources as soon as possible and within the legally mandated 30 days.
8. The Clerk of this Board shall cause a Notice of Exemption to be filed with the County Clerks in Kern County, San Bernardino County and Inyo County.

Exhibit “E”

EXHIBIT E

Antelope Valley-East Kern Water Agency
City of Ridgecrest
County of Kern
County of Inyo
County of San Bernardino
Indian Wells Valley Water District
Inyokern Community Services District
Kern County Water Agency
Mojave Water Agency
Rand Communities Water District

Exhibit “F”

EXHIBIT F

a. Holders of Overlying Groundwater Rights, including:

1. Agricultural Users.

- Various Landowners

The Authority is committed to considering the interests of all users in the Basin, including agricultural users, during the GSP development in an open and transparent process, including active and open public discussions. In accordance with that commitment, the Authority will be preparing, maintaining, and updating as necessary, a list, with contact information, of all lands zoned for agricultural use in the Basin.

2. Domestic Well Owners.

- Various Landowners

The Authority is committed to considering the interests of all domestic well owners in the Basin during the GSP development process in an open and transparent process, including active and open public discussions. In accordance with that commitment, the Authority will be preparing, maintaining, and updating as necessary, a list, with contact information, of all domestic well owners in the Management Area.

Additionally, the Authority recognizes that well owners that extract less than two acre feet per year for domestic purposes are considered to be “de minimis extractors” and therefore they are excluded from certain provisions of SGMA.

b. Municipal Well Operators.

- City of Ridgecrest

The only incorporated city within the Management Area is the City of Ridgecrest which is also a member of the Authority.

c. Public Water Systems.

- Indian Wells Valley Water District
- InyoKern Community Services District
- Rand Communities Water District

The Authority is committed to considering the interests of all public water system operators in the Basin during the GSP development process in an open and transparent process, including active and open public discussions. In accordance with that commitment, the Authority will be preparing, maintaining, and updating as necessary, a list, with contact information, of all public water system operators in the Management Area. Additionally, if and to the extent that there are any private water systems that are providing water to the public they will be included in this list.

d. Local Land Use Planning Agencies.

- City of Ridgecrest
- County of Kern
- County of Inyo
- County of San Bernardino

The local land use planning agencies within the Management Area are all signatories and voting members of the Authority.

e. Environmental Users of Groundwater.

- None Known

At present, the Authority is unaware of any water users that would fit within this category. With that said, the Authority is committed to considering the interests of all environmental users of groundwater in the Basin during the GSP development process in an open and transparent process, including active and open public discussions. In accordance with that commitment, the Authority will develop, maintain, and update as necessary, a list, with contact information, of all environmental users of groundwater in the Management Area as they are identified.

f. Surface Water Users, if there is a hydrologic connection between surface and groundwater bodies.

It is currently believed that there are no identifiable surface water users in the Management Area. With that said, the Authority is committed to considering the interests of all surface water users in the Basin during the GSP development process in an open and transparent process, including active and open public discussions. In accordance with that commitment, the Authority the County will develop, maintain, and update as necessary, a list, with contact information, of all surface water users in the Management Area as they are identified.

g. The Federal Government, including, but not limited to, the military and managers of Federal lands.

- Bureau of Land Management
- Naval Air Weapons Station China Lake

h. California Native American Tribes.

- Death Valley Timbisha Shoshone Band of California

At present, the Authority is unaware of any other Native American Tribes in the Management Area. With that said, the Authority is committed to considering the interests of all users of groundwater in the Basin during the GSP development process in an open and transparent process, including active and open public discussions. In accordance with that commitment, the Authority will develop, maintain, and update as necessary, a list, with contact information, of all Native American Tribes in the Management Area as they are identified.

i. Disadvantaged Communities, including, but not limited to, those served by private domestic wells or small community water systems.

At present, the Authority is unaware of any Disadvantage Communities within the Management Area. With that said, the Authority is committed to considering the interests of all users of groundwater in the Basin during the GSP development process in an open and transparent process, including active and open public discussions. In accordance with that commitment, the Authority will develop, maintain, and update as necessary, a list, with contact information, of all Disadvantage Communities in the Management Area as they are identified.

j. Entities listed in Section 10927 that are monitoring and reporting groundwater elevations in all or a part of a groundwater basin managed by the groundwater sustainability agency.

- City of Ridgecrest
- County of Kern
- Indian Wells Valley Water District
- Kern County Water Agency
- Naval Air Weapons Station China Lake

All of the above interested parties will be considered in the operation of the GSA and the development of the GSP.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

ATTACHMENT 2-2
DWR CASGEM LETTER (NOVEMBER 18, 2011)

**DEPARTMENT OF WATER RESOURCES**

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



November 18, 2011

Don Zdeba, Chairperson
Indian Wells Valley Cooperative Groundwater Management Group
Post Office Box 1329
Ridgecrest, California 93555

Monitoring Entity Designation for the Indian Wells Valley Cooperative Groundwater Management Group under the California Statewide Groundwater Elevation Monitoring Program

Dear Mr. Zdeba:

Thank you for volunteering to be a Monitoring Entity for the California Statewide Groundwater Elevation Monitoring (CASGEM) program. On December 17, 2010, the Department of Water Resources (DWR) received notification that the Indian Wells Valley Cooperative Groundwater Management Group (IWVCGWMG) 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 System, IWVCGWMG is designated as the Monitoring Entity for the following groundwater basin:

- Indian Wells Valley (6-54)

You should begin monitoring the wells you have included in the CASGEM program by fall 2011. The CASGEM Online System is ready to accept submittal of your groundwater elevation data. The Water Code requires that the first set of groundwater elevations be reported on or before January 1, 2012.

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 at 770 Fairmont Avenue, Suite 102, Glendale, California 91203, or by phone (818) 500-1645 x278, or email tross@water.ca.gov.

Thank you for your participation in the CASGEM program.

Sincerely,

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

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

ATTACHMENT 2-3
MARCH 2017 CASGEM MONITORING RESULTS

Groundwater Elevation Data

CASGEM ID	Local Well Number	Date	Military Time (PST)	No Measurement	Questionable Measurement	Reading @RP	Reading @WS	RP to WS	RP Elevation	GS Elevation	WSE	GS to WS	Measurement Method	Measurement Accuracy	Collecting/Co-op Agency	Voluntary or CASGEM Measurement	Comments
354909N117065W001	RIVALDI WELL	3/14/2017	00:00	9 - Temporarily inaccessible					3,494.820	3,493.320					Indian Wells Valley Cooperative Groundwater Management	CASGEM	
354993N117928W001	ABANDONED WELL	3/13/2017	00:00			214.200	0.000	214.200	3,029.650	3,026.774	2,815.450	211.324	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
355111N11793W001	HIGHWAY WELL	3/15/2017	00:00	9 - Temporarily inaccessible					3,163.340	3,162.510					Indian Wells Valley Cooperative Groundwater Management	CASGEM	
355496N117862W001	BR 1 (Shallow)	3/13/2017	00:00			186.800	0.000	186.800	2,853.962	2,850.502	2,667.162	183.340	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
355496N117862W002	BR 1 (Shall-Med)	3/13/2017	00:00			184.600	0.000	184.600	2,853.882	2,850.502	2,669.282	181.220	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
355496N117862W003	BR 1 (Med-Deep)	3/14/2017	00:00	5 - Unable to locate well					2,853.732	2,850.502					Indian Wells Valley Cooperative Groundwater Management	CASGEM	
355496N117862W004	BR 1 (Deep)	3/13/2017	00:00			186.900	0.000	186.900	2,853.712	2,850.502	2,666.812	183.690	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
355499N117895W001	AB303-06	3/13/2017	00:00			362.600	0.000	362.600	3,025.870	3,024.160	2,663.270	360.890	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
356073N117549W001	BR 3 (Shallow)	3/13/2017	00:00			361.700	0.000	361.700	2,513.360	2,510.403	2,151.660	358.743	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
356073N117549W002	BR 2 (Medium)	3/13/2017	00:00			364.800	0.000	364.800	2,513.320	2,510.403	2,148.520	361.883	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
356073N117549W003	BR 3 (Deep)	3/13/2017	00:00			331.900	0.000	331.900	2,513.110	2,510.403	2,181.210	329.193	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
356144N117626W001	GEORGE AIR CORRIDOR	3/13/2017	00:00			162.000	0.000	162.000	2,324.136	2,322.636	2,162.136	160.500	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
356228N1178576W001	BR 2 (Shallow)	3/13/2017	00:00			284.400	0.000	284.400	2,657.488	2,654.948	2,373.088	281.860	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
356228N1178576W002	BR 2 (Medium)	3/13/2017	00:00			280.900	0.000	280.900	2,657.328	2,654.948	2,376.428	278.520	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
356228N1178576W003	BR 2 (Deep)	3/13/2017	00:00			293.200	0.000	293.200	2,657.278	2,654.948	2,364.078	290.870	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM	
356485N117749W001	MW-32-S	3/14/2017	00:00	9 - Temporarily inaccessible					2,421.540	2,418.497					Indian Wells Valley Cooperative Groundwater Management	CASGEM	

356485N117749W002	MW-32-SM	3/13/2017	00:00		292.400	2,421.567	2,418.527	2,129.167	289.360	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
356485N117749W003	MW-32-DM	3/13/2017	00:00		284.100	2,421.567	2,418.527	2,137.467	281.060	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
356485N117749W004	MW-32-D	3/13/2017	00:00		275.000	2,421.177	2,418.527	2,146.177	272.350	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
356497N117742W001	USBR-04-SM	3/13/2017	00:00		253.200	2,378.943	2,377.093	2,125.743	251.350	AS - Acoustic or sonic sounder	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
356654N117641W001	WWTF-02	3/13/2017	00:00	9 - Temporarily inaccessible		2,209.750	2,207.100					Indian Wells Valley Cooperative Groundwater Management	CASGEM
356654N117696W001	S Hanger5	3/13/2017	00:00	9 - Temporarily inaccessible		2,277.060	2,274.810					Indian Wells Valley Cooperative Groundwater Management	CASGEM
356885N117556W001	SANDQUIST SPA	3/14/2017	00:00		134.000	2,308.300	2,307.300	2,174.300	133.000	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357181N117870W001	BR 5 (Shallow)	3/13/2017	00:00		355.700	2,523.000	2,520.419	2,167.300	353.119	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357181N117870W002	BR 5 (Medium)	3/13/2017	00:00		365.600	2,522.800	2,520.419	2,157.200	363.219	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357181N117870W003	BR 5 (Deep)	3/13/2017	00:00		367.300	2,522.550	2,520.419	2,155.250	365.169	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357181N117842W001	NR 2-S	3/13/2017	00:00		153.800	2,317.240	2,314.700	2,163.440	151.260	AS - Acoustic or sonic sounder	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357181N117842W002	NR 2-M	3/15/2017	00:00		171.800	2,316.930	2,314.700	2,145.130	169.570	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357181N117842W003	NR 2-D	3/15/2017	00:00		174.700	2,316.740	2,314.700	2,142.040	172.660	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357325N117203W001	TTBKMW14	3/17/2017	00:00		16.940	2,006.470	2,003.220	1,989.530	13.690	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357597N1176015W001	TTBKMW12	3/17/2017	00:00		25.150	2,194.250	2,191.040	2,169.100	21.940	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357762N117841W001	USBR-06-S	3/14/2017	00:00		182.600	2,354.710	2,352.924	2,172.110	180.814	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357762N117841W002	USBR-06-M	3/14/2017	00:00		186.400	2,354.380	2,352.924	2,167.980	184.944	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM

357762N117841W003	USBR-06-D	3/14/2017	00:00			165.500	0.000	165.500	2,354,000	2,352,924	2,188,500	164.424	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
357850N117618W001	BAKER RANGE	3/17/2017	00:00			50.610	0.000	50.610	2,227,272	2,226,272	2,176,662	49.610	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
358414N117871W001	USBR-10-S	3/13/2017	00:00			321.400	0.000	321.400	2,564,310	2,559,391	2,242,910	316.481	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
358414N117871W002	USBR-10-SM	3/13/2017	00:00			324.900	0.000	324.900	2,564,200	2,559,391	2,239,300	320.091	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM
358414N117871W003	USBR-10-DM	3/14/2017	00:00	2 - Pump house locked					2,564,040	2,559,391					Indian Wells Valley Cooperative Groundwater Management	CASGEM
358414N117871W004	USBR-10-D	3/13/2017	00:00			320.900	0.000	320.900	2,563,930	2,559,391	2,243,030	316.361	ES - Electric sounder measurement	0.01 Ft	Indian Wells Valley Cooperative Groundwater Management	CASGEM

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

ATTACHMENT 2-4
DWR UWMP LETTER (APRIL 26, 2017)

DEPARTMENT OF WATER RESOURCES

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



April 26, 2017

Reneé Morquecho
Chief Engineer
Indian Wells Valley Water District
500 West Ridgecrest Boulevard
Ridgecrest, California 93555

RE: Urban Water Management Plan Requirements Addressed

Dear M. Morquecho:

The Department of Water Resources (DWR) has reviewed the Indian Wells Valley Water District's 2015 Urban Water Management Plan (UWMP) received on June 20, 2016. The California Water Code (CWC) directs DWR to report to the legislature once every five years on the status of submitted UWMPs. In meeting this legislative reporting requirement, DWR reviews all submitted UWMPs.

DWR's review of the Indian Wells Valley Water District's 2015 plan has found that the UWMP addresses the requirements of the CWC. DWR's review of plans is limited to assessing whether suppliers have addressed the required legislative elements. In its review, DWR does not evaluate or analyze the supplier's UWMP data, projections, or water management strategies. This letter acknowledges that the Indian Wells Valley Water District's 2015 UWMP addresses the CWC requirements. The results of the review will be provided to DWR's Financial Assistance Branch.

If you have any questions regarding the review of the UWMP or urban water management planning please call Gwen Huff at 916-651-9672.

Sincerely,

A handwritten signature in blue ink, appearing to read "Vicki Lake".

Vicki Lake
Unit Chief
Urban Water Use Efficiency
(916) 651-0740

Electronic cc:
David F. Scriven

ATTACHMENT 2-5
DWR LISTING OF AGRICULTURAL WATER MANAGEMENT
PLANS

Tuesday, September 26, 2017

Water Suppliers Required and

Submitted (<25,000 due 7/1/2016)

	Date Received	2015 & 2016 Plan Type/Date	>25,000 acres or as noted	Review Completed
Lone Tree MWC	7/1/2015	SBX7-7	10-25,000 acres	X
Columbia Canal Co.	8/10/2015	CVPIA	10-25,000 acres	X
Firebaugh Canal W.D.	8/10/2015	CVPIA	10-25,000 acres	X
Central California ID	8/10/2015	CVPIA/ 2014		X
San Luis Canal Co	8/10/2015	CVPIA/ 2014		X
Corcoran ID	8/18/2015	SBX7-7/ 2015		X
Arvin-Edison WSD	11/12/2015	CVPIA/ 2013-updated		X
Tulare Lake Basin WSD	11/12/2015	SBX7-7/ 2015		X
San Benito WD	11/16/2015	CVPIA/ 2015		X
Alta ID	12/9/2015	SBX7-7/ 2015		X
Turlock ID	12/10/2015	SBX7-7/ 2015		X
Lower Tule River ID	12/21/2015	CVPIA/ 2012		X
Pixley ID	12/21/2015	CVPIA/ 2012		X
Chowchilla WD	12/22/2015	CVPIA/ 2015-updated		X
South San Joaquin ID	12/22/2015	SBX7-7/ 2015		X
Kern Delta WD	12/28/2015	SBX7-7/ 2015		X
Modesto ID	12/29/2015	SBX7-7/ 2015		X
Biggs-West Gridley WD	1/13/2016	SBX7-7/ 2015		X
North Kern WSD	1/19/2016	SBX7-7/ 2015		X
Dudley Ridge WD	1/20/2016	SBX7-7/ 2015	10-25,000 acres	X
Laguna ID	1/27/2016	SBX7-7/ 2015		X
Tulare ID	1/28/2016	CVPIA/ 2015-updated		X
Nevada ID	2/1/2016	SBX7-7/ 2015		X
Ventura Co Waterworks Dist 1	2/11/2016	SBX7-7/ 2015	<10,000 acres	X
Shafter-Wasco ID	2/11/2016	CVPIA/ 2015-updated		X
Yolo Co FC&WCD	2/11/2016	SBX7-7/ 2015		X
Fresno ID	2/18/2016	CVPIA/ 2015		X
Western Canal WD	2/26/2016	SBX7-7/ 2015		X
Richvale ID	2/29/2016	SBX7-7/ 2015		X
Solano ID	2/29/2016	CVPIA/ 2016		X
Buena Vista WSD	3/4/2016	SBX7-7/ 2015		X

Carlsbad MWD*	3/15/2016	SBX7-7/ 2015	<10,000 acres		X
City of Escondido*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
City of Oceanside*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
City of Poway*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
Fallbrook Public Utilities District*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
Olivenhaim MWD*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
Ramona MWD*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
Rincon del Diablo MWD*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
San Dieguito WD*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
Santa Fe ID*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
Vallecitos WD*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
Yuima MWD*	3/15/2016	SBX7-7/ 2015	<10,000 acres		
Valley Center MWD*	3/15/2016	SBX7-7/ 2015	10-25,000 acres		X
Rainbow MWD*	3/15/2016	SBX7-7/ 2015	10-25,000 acres		X
Camrosa WD	3/29/2016	SBX7-7/ 2015	<10,000 acres		X
Oakdale ID	3/29/2016	SBX7-7/ 2015			X
Semitropic WSD	4/1/2016	SBX7-7/ 2015			X
Yuba County WA	4/4/2016	SBX7-7/ 2015	Wholesaler		
Wheeler-Ridge-Maricopa WSD	4/6/2016	SBX7-7/ 2015			X
Carpinteria Valley WD	4/22/2016	SBX7-7/ 2015	<10,000 acres		
South Sutter WD	4/29/2016	SBX7-7/ 2015			X
Rancho California WD	6/23/2016	SBX7-7/ 2016	10-25,000 acres		X
Patterson ID	6/28/2016	CVPIA/ 2016 Update	10-25,000 acres		X
Woodbridge ID	6/29/2016	SBX7-7	10-25,000 acres		X
Cawelo WD	6/29/2016	SBX7-7			X
Casitas MWD	7/1/2016	SBX7-7	<10,000 acres		
Merced ID	7/21/2016	SBX7-7			X
Browns Valley ID	7/22/2016	SBX7-7	10-25,000 acres		X
Reclamation District 2035	7/29/2016	SBX7-7	10-25,000 acres		X
Consolidated ID	8/9/2016	SBX7-7			X
James ID	8/26/2016	CVPIA	10-25,000 acres		X
Kern-Tulare WD	8/31/2016	CVPIA	10-25,000 acres		X
Reclamation District No. 2068	9/14/2016	SBX7-7	10-25,000 acres		X
West Stanislaus I.D.	9/16/2016	CVPIA	10-25,000 acres		X

Westside W.D.	9/21/2016	CVPIA	10-25,000 acres	X
Riverdale I.D.	11/15/2016	SBX7-7	10-25,000 acres	X
Sutter Extension WD	11/17/2016	SBX7-7	10-25,000 acres	X
Glenn-Colusa ID**	12/16/2016	CVPIA/Sac River		X
Butte WD	1/4/2017	SBX7-7	10-25,000 acres	
Princeton-Codora-Glenn ID**	1/6/2017	CVPIA/Sac River	<10,000 acres	X
Meridian Farms**	1/6/2017	CVPIA/Sac River	<10,000 acres	X
Anderson-Cottonwood ID**	1/6/2017	CVPIA/Sac River	<10,000 acres	X
Reclamation District No. 1004**	1/6/2017	CVPIA/Sac River	10-25,000 acres	X
Provident ID**	1/6/2017	CVPIA/Sac River	10-25,000 acres	X
Natomas MWC**	1/6/2017	CVPIA/Sac River	10-25,000 acres	X
Sutter Mutual WC**	1/6/2017	CVPIA/Sac River		X
Reclamation District No. 108**	1/6/2017	CVPIA/Sac River		X
San Luis WD	1/10/2017	CVPIA		X
Delano-Earlimart ID	1/30/2017	CVPIA		X
Maine Prairie W.D.	3/7/2017	CVPIA	10-25,000 acres	X
Westlands WD	4/13/2017	CVPIA		X
Banta-Carbona I.D.	4/19/2017	CVPIA	10-25,000 acres	X
Orland-Artois WD	4/25/2017	CVPIA		X
Madera ID	4/25/2017	CVPIA		X
Colusa Co. WD	5/2/2017	CVPIA		X
Orland Unit WUA	5/11/2017	SBX7-7	10-25,000 acres	X
Stockton-East WD	8/8/2017	CVPIA		X
Orange Cove ID	8/28/2017	CVPIA		X
Lindmore ID	9/15/2017	CVPIA		X
Panoche WD	9/26/2017	CVPIA	10-25,000 acres	X

*San Diego Regional AWMP

**Sac R. Settlement Contractors

Water Suppliers Required, In Progress
(<25,000 due 7/1/2016)

Kings River W.D.			>25,000 acres
Ivanhoe I.D.	CVPIA	10-25,000 acres	or as noted
Saucelito I.D.	CVPIA	10-25,000 acres	
Terra Bella I.D.	CVPIA	10-25,000 acres	
Byron Bethany I.D.	CVPIA	10-25,000 acres	
Tule Lake ID	CVPIA	10-25,000 acres	

2015-2016 Plan

Type/Date

	SBX7-7		
	CVPIA		
	CVPIA		
	CVPIA		
	CVPIA		
	CVPIA		
	SBX7-7		
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	SBX7-7		
	RRA ***		
	CVPIA		
	CVPIA		
	CVPIA		
	CVPIA		
	SBX7-7		
	CVPIA		
	CVPIA		
	SBX7-7		
	SBX7-7		

Water Suppliers Required, Not Submitted (<25,000 due 7/1/2016)

Belridge WSD	SBX7-7		
Berrenda Mesa WD	SBX7-7		
Central San Joaquin WCD	CVPIA		
Del Puerto WD	CVPIA		
Lost Hills WD	SBX7-7		
Palo Verde ID	RRA ***		
Southern San Joaquin MUD	CVPIA		
Bard WD	CVPIA		
Exeter I.D.	CVPIA		
Galt I.D.	CVPIA		
Henry Miller W.D.	SBX7-7		
Lindsay-Strathmore I.D.	CVPIA		
Porterville I.D.	CVPIA		
Reclamation District No. 999	SBX7-7		
St. Johns W.D.	SBX7-7		

***Reclamation Reform Act of 1982

ATTACHMENT 2-6
SWRCB EWRIMS LISTING (SURFACE WATER RIGHTS)



e-WRIMS Water Right Search Results

Criteria: Displaying Water Rights where Water Right Type = Appropriative OR Stockpond OR Registration Domestic OR Cert of Right - Power OR Federal Claims OR Adjudicated OR Statement of Div and Use OR Temporary Permit OR Section 12 File OR Registration Livestock OR Waste Water Change OR Not Determined OR Non Jurisdictional OR Registration Irrigation OR Federal Stockpounds; Watershed is (INDIAN WELLS).

Search Results: previous 1-25 of 25 next

<u>AppI ID</u>	<u>Permit ID</u>	<u>License ID</u>	<u>Water Right Type</u>	<u>Status</u>	<u>Holder Name</u>	<u>Date</u>	<u>Face Amt</u>	<u>County</u>	<u>Source</u>	<u>View Reports</u>	<u>Water Right</u>	<u>Open in GIS</u>	<u>Export to Excel</u>
S00527Z			Statement of Div and Use	Claimed	LOS ANGELES DEPARTMENT OF WATER AND POWER	01/01/1975	0 acre-ft/yr	Inyo	LOCO CREEK	View Reports	View Statement	Open in GIS	Download to Excel
S009751			Statement of Div and Use	Claimed	LOS ANGELES DEPARTMENT OF WATER AND POWER	02/23/1979	0 acre-ft/yr	Inyo	HAIWEE RESERVOIR	View Reports	View Statement	Open in GIS	Download to Excel
S024379			Statement of Div and Use	Claimed	MARSHALL PROPS, LLC	02/27/2014	0 acre-ft/yr	Inyo	Summitt Creek	View Reports	View Statement	Open in GIS	Download to Excel
S024380			Statement of Div and Use	Claimed	MARSHALL PROPS, LLC	02/27/2014	0 acre-ft/yr	Inyo	Summitt/Looco Creek	View Reports	View Statement	Open in GIS	Download to Excel
S002111			Statement of Div and Use	Claimed	National Audubon Society	06/30/1967	0 acre-ft/yr	Kern	UNXX	View Reports	View Statement	Open in GIS	Download to Excel
A017659	011440	006460	Appropriative	Revoked	SPRAGUE RANCHES	07/12/2010	1.3 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel
A019784			Appropriative	State Filing	STATE WATER RESOURCES CONTROL BOARD	10/03/1960	0 acre-ft/yr	Inyo	SUMMIT CREEK, UNST	View Reports	N/A	Open in GIS	Download to Excel
S012552			Statement of Div and Use	Claimed	U S BUREAU OF LAND MANAGEMENT	10/18/1985	0 acre-ft/yr	Kern	UNSP	View Reports	View Statement	Open in GIS	Download to Excel
S006811			Statement of Div and Use	Claimed	U S INYO NATL FOREST	01/01/1980	0 acre-ft/yr	Inyo	LOCO CREEK	View Reports	View Statement	Open in GIS	Download to Excel
F006718S			Federal Claims	Claimed	U S SEQUOIA NATL FOREST	07/01/1984	0.1 acre-ft/yr	Kern	UNSP	View Reports	N/A	Open in GIS	Download to Excel
F006719S			Federal Claims	Claimed	U S SEQUOIA NATL FOREST	07/01/1984	0.1 acre-ft/yr	Kern	UNSP	View Reports	N/A	Open in GIS	Download to Excel
S006722			Statement of Div and Use	Claimed	U S SEQUOIA NATL FOREST	04/07/1971	0 acre-ft/yr	Kern	MCIVERS SPRING	View Reports	View Statement	Open in GIS	Download to Excel
A022167	014947	009549	Appropriative	Licensed	US BUREAU OF LAND MANAGEMENT	05/20/1965	1.7 acre-ft/yr	Kern	PUBLIC SPRING	View Reports	View License	Open in GIS	Download to Excel

S011841	Statement of Div and Use	Claimed	US BUREAU OF LAND MANAGEMENT	12/11/1984	0 acre-ft/yr	Inyo	UNSP	View Reports	View Statement	Open in GIS	Download to Excel
A021217	Appropriative	Licensed	US BUREAU OF LAND MANAGEMENT	04/02/1963	0.7 acre-ft/yr	Kern	MORRIS PEAK SPRING	View Reports	View License	Open in GIS	Download to Excel
A022164	Appropriative	Licensed	US BUREAU OF LAND MANAGEMENT	05/20/1965	2.8 acre-ft/yr	Inyo	NINEMILE CANYON UNDERFLOW	View Reports	View License	Open in GIS	Download to Excel
A017450	Appropriative	Licensed	US BUREAU OF LAND MANAGEMENT	02/04/1957	2.5 acre-ft/yr	Kern	SHORT CANYON SPRING	View Reports	View License	Open in GIS	Download to Excel
A004682	Appropriative	Licensed	US BUREAU OF LAND MANAGEMENT	10/06/1960	34.8 acre-ft/yr	Inyo	EAST SACATAR CREEK	View Reports	View License	Open in GIS	Download to Excel
A018265	Appropriative	Licensed	US BUREAU OF LAND MANAGEMENT	08/14/1958	0.2 acre-ft/yr	Inyo	UNSP	View Reports	View License	Open in GIS	Download to Excel
A016741	Appropriative	Revoked	ANNA E LONGAKER	07/01/2008	2.4 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel
D029639	Registration Domestic	Registered	KIM A JENSEN	06/30/2006	2.7 acre-ft/yr	Kern	SEARLES TUNNEL	View Reports	View Certificate	Open in GIS	Download to Excel
D032441	Registration Domestic	Registered	MICHAEL CLARKE	04/12/2016	1.121 acre-ft/yr	Kern	Unnamed Spring	View Reports	View Certificate	Open in GIS	Download to Excel
A026051	Appropriative	Revoked	NIKOLAUS & NIKOLAUS SON	10/20/2001	65 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel
D029864	Registration Domestic	Registered	PETE POOLEY	02/27/1991	2.3 acre-ft/yr	Kern	UNSP	View Reports	View Certificate	Open in GIS	Download to Excel
D029722	Registration Domestic	Revoked	ROSS MUNNERLYN	07/05/2000	0.2 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel

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Criteria: Displaying Water Rights where Water Right Type = Appropriative OR Stockpond OR Registration Domestic OR Cert of Right - Power OR Federal Claims OR Adjudicated OR Statement of Div and Use OR Temporary Permit OR Section 12 File OR Registration Livestock OR Waste Water Change OR Not Determined OR Non Jurisdictional OR Registration Irrigation OR Federal Stockponds; Watershed is (ANTELOPE).

Search Results: previous next

AppI ID	Permit ID	License ID	Water Right Type	Status	Holder Name	Date	Face Amt	County	Source	View Reports	Water Right	Open in GIS	Export to Excel
A005292	003212	003099	Appropriative	Licensed	BLALOCK-EDDY RANCH	12/02/1926	3388.2 acre-ft/yr	Los Angeles	BIG ROCK CREEK UNDERFLOW	View Reports	View License	Open in GIS	Download to Excel
A012762	007457	004015	Appropriative	Licensed	BLALOCK-EDDY RANCH	10/25/1948	2171.9 acre-ft/yr	Los Angeles	BIG ROCK CREEK	View Reports	View License	Open in GIS	Download to Excel
A009234	005144	007243	Appropriative	Licensed	BOLTHOUSE PROPERTIES LLC	02/07/1938	609.9 acre-ft/yr	Los Angeles	BIG ROCK CREEK	View Reports	View License	Open in GIS	Download to Excel
A004419	002109	001025	Appropriative	Licensed	CAMP MCCLELLAN IMPROVEMENT ASSOCIATION	01/14/1925	10.1 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
A031744			Appropriative	Pending	CITY OF PALMDALE	01/29/2009	2700 acre-ft/yr	Los Angeles	Amargosa Creek	View Reports	N/A	Open in GIS	Download to Excel
A010092B	005841B	009318	Appropriative	Licensed	COUNTY OF LOS ANGELES	12/20/1940	5 acre-ft/yr	Los Angeles	PUNCHBOWL CANYON	View Reports	View License	Open in GIS	Download to Excel
S015663			Statement of Div and Use	Claimed	FARM SANCTUARY INC	06/04/2002	0 acre-ft/yr	Los Angeles	BIDDISON SPRING	View Reports	View Statement	Open in GIS	Download to Excel
A004773	002441	000977	Appropriative	Licensed	FARM SANCTUARY INC	09/15/1925	2.7 acre-ft/yr	Los Angeles	BIDDISON SPRING	View Reports	View License	Open in GIS	Download to Excel
A006625	003556	002031	Appropriative	Licensed	FIRESTONE RANCH CORPORATION	04/07/1930	11.2 acre-ft/yr	Los Angeles	UNSP, UNSP (4)	View Reports	View License	Open in GIS	Download to Excel
A004383	002249	000669	Appropriative	Licensed	GENZ DEV INC	12/18/1924	24.5 acre-ft/yr	Los Angeles	INDIAN SPRINGS, UNST	View Reports	View License	Open in GIS	Download to Excel
A011434	007589	010441	Appropriative	Licensed	Jesus Canyon Ranch LLC	06/12/1946	0.8 acre-ft/yr	Los Angeles	JESUS CANYON	View Reports	View License	Open in GIS	Download to Excel
A011803	006846	010177	Appropriative	Licensed	LITTLE BALDY WATER COMPANY	08/21/1973	13.8 acre-ft/yr	Los Angeles	GRANDVIEW CANYON	View Reports	View License	Open in GIS	Download to Excel
S023979			Statement of Div and Use	Claimed	LITTLE BALDY WATER COMPANY	04/09/2013	0 acre-ft/yr	Los Angeles	Grandview Canyon aka Deadmans Canyon	View Reports	View Statement	Open in GIS	Download to Excel

S023977		Statement of Div and Use	Claimed	LITTLE BALDY WATER COMPANY	04/12/2013	0 acre-ft/yr	Los Angeles	Grandview Canyon aka Deadman's Canyon	View Reports	View Statement	Open in GIS	Download to Excel
Z000030	120009	Section 12 File	Certified	LITTLE BALDY WATER COMPANY	02/10/1915	0 acre-ft/yr	Los Angeles	GRANDVIEW CANYON, GRANDVIEW CANYON WASH (SUBTERRANEAN STREAM)	View Reports	N/A	Open in GIS	Download to Excel
A017181	011216 006705	Appropriative	Licensed	MESCAL CREEK WATER, INC	07/16/1956	47 acre-ft/yr	Los Angeles	MESCAL CREEK	View Reports	View License	Open in GIS	Download to Excel
A011655	007587 006704	Appropriative	Licensed	MESCAL CREEK WATER, INC	12/10/1946	872 acre-ft/yr	Los Angeles	MESCAL CREEK	View Reports	View License	Open in GIS	Download to Excel
A000939	000427 000168	Appropriative	Licensed	MESCAL CREEK WATER, INC	03/02/1918	73.9 acre-ft/yr	Los Angeles	MESCAL CREEK	View Reports	View License	Open in GIS	Download to Excel
S013721		Statement of Div and Use	Claimed	MESCAL CREEK WATER, INC	07/24/1991	0 acre-ft/yr	Los Angeles	MESCAL CREEK	View Reports	View Statement	Open in GIS	Download to Excel
A008477	005230 002781	Appropriative	Licensed	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT	10/23/1935	17.9 acre-ft/yr	Los Angeles	UNSP (AKA SMITHSON SPRING)	View Reports	View License	Open in GIS	Download to Excel
A017431	011088 006475	Appropriative	Licensed	RANCHO CORONA DEL VALLE CORP	01/23/1957	4 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
A003268B	001450 001083B	Appropriative	Licensed	RANCHO CORONA DEL VALLE CORP	08/12/1998	18.8 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
NJ000007		Non Jurisdictional	Active	RIO TINTO MINERALS - U.S. BORAX OPERATIONS	03/14/2011	0 acre-ft/yr	Kern	None	View Reports	N/A	Open in GIS	Download to Excel
A009688	005522 002863	Appropriative	Licensed	U S ANGELES NATL FOREST	08/01/1939	34.8 acre-ft/yr	Los Angeles	WINSTON SPRING NO 1, WINSTON SPRING NO 2	View Reports	View License	Open in GIS	Download to Excel
F003290S		Federal Claims	Claimed	U S ANGELES NATL FOREST	07/01/1984	2.13 acre-ft/yr	Los Angeles	UNSP	View Reports	N/A	Open in GIS	Download to Excel
A018007	011501 006355	Appropriative	Licensed	U S ANGELES NATL FOREST	02/20/1958	3.5 acre-ft/yr	Los Angeles	UNST	View Reports	View License	Open in GIS	Download to Excel
F006235S		Federal Claims	Claimed	U S ANGELES NATL FOREST	07/01/1984	22 acre-ft/yr	Los Angeles	JACKSON LAKE WELL	View Reports	N/A	Open in GIS	Download to Excel
S006229		Statement of Div and Use	Claimed	U S ANGELES NATL FOREST	09/24/1982	0 acre-ft/yr	Los Angeles	LITTLE ROCK CREEK	View Reports	View Statement	Open in GIS	Download to Excel

F006228S	Federal Claims	Claimed	U S ANGELES NATL FOREST	07/01/1984	0.34 acre-ft/yr	Los Angeles	SYCAMORE FLAT WELL	View Reports	N/A	Open in GIS	Download to Excel
S003291	Statement of Div and Use	Claimed	U S ANGELES NATL FOREST	01/01/1966	0 acre-ft/yr	Los Angeles	UNSP	View Reports	View Statement	Open in GIS	Download to Excel
A008377	Appropriative	Licensed	U S ANGELES NATL FOREST	07/02/1935	17.9 acre-ft/yr	Los Angeles	GILPATRICK CANYON CREEK	View Reports	View License	Open in GIS	Download to Excel
S010801	Statement of Div and Use	Claimed	U S ANGELES NATL FOREST	03/16/1982	0 acre-ft/yr	Los Angeles	MT WATERMAN	View Reports	View Statement	Open in GIS	Download to Excel
F003318S	Federal Claims	Claimed	U S ANGELES NATL FOREST	07/01/1984	2.02 acre-ft/yr	Los Angeles	BIG ROCK CREEK	View Reports	N/A	Open in GIS	Download to Excel
A010592	Appropriative	Licensed	U S ANGELES NATL FOREST	01/20/1943	2.4 acre-ft/yr	Los Angeles	SOUTH FORK SPRING	View Reports	View License	Open in GIS	Download to Excel
A010591	Appropriative	Licensed	U S ANGELES NATL FOREST	01/20/1943	0.9 acre-ft/yr	Los Angeles	SULPHUR SPRINGS	View Reports	View License	Open in GIS	Download to Excel
F006234S	Federal Claims	Claimed	U S ANGELES NATL FOREST	07/01/1984	2 acre-ft/yr	Los Angeles	UNST	View Reports	N/A	Open in GIS	Download to Excel
F011059S	Federal Claims	Claimed	U S ANGELES NATL FOREST	07/01/1984	1.01 acre-ft/yr	Los Angeles	ICY SPRINGS	View Reports	N/A	Open in GIS	Download to Excel
A008784	Appropriative	Permitted	UNNAMED SPRING GROUP	09/01/1936	10 acre-ft/yr	Los Angeles	UNSP	View Reports	View Permit	Open in GIS	Download to Excel
A002833	Appropriative	Licensed	ABEL T MONTEMAYOR	04/07/1927	5.1 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
D030340	Registration Domestic	Revoked	ALLAN HIIESALU ANGELES WINTER DEVELOPMENT CORP	06/01/1999	0 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel
A029010	Appropriative	Cancelled	DEVELOPMENT CORP	01/01/1500	0 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel
A02745Z	Appropriative	Licensed	ANTHONY GONZALES	07/27/1982	0.3 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
A003739	Appropriative	Revoked	BECKY L LOWE	11/01/2016	2.2 acre-ft/yr	Los Angeles	UNSP	View Reports	N/A	Open in GIS	Download to Excel
A022700	Appropriative	Licensed	BRYAN BOBROSKY	02/14/1967	0.3 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
A015815	Appropriative	Licensed	CALIFORNIA PORTLAND CEMENT COMPANY	04/05/1954	470 acre-ft/yr	Kern	OAK CREEK, UNSP	View Reports	View License	Open in GIS	Download to Excel
A013860	Appropriative	Licensed	CAMERON PROPERTIES INC	07/24/1950	14 acre-ft/yr	Los Angeles	LE MONTAINE CREEK	View Reports	View License	Open in GIS	Download to Excel
A020343	Appropriative	Licensed	CAROLE COMPTON	08/07/1961	3.1 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
A003268A	Appropriative	Licensed	Donald Crowell Jr.	07/10/1998	8.4 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
D03113Z	Registration Domestic	Registered	Donald Crowell Jr.	03/23/2001	5 acre-ft/yr	Los Angeles	UNSP	View Reports	View Certificate	Open in GIS	Download to Excel

[A010464](#) 005996 002857 Appropriate Licensed FRANCISCO CELEDON 05/19/1942 11.6 acre-ft/yr Los Angeles UNSP [View Reports](#) [View License](#) [Open in GIS](#) [Download to Excel](#)

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Search Results: [previous 1](#) | 51-80 of 80 | [next](#)

Appl ID	Permit ID	License ID	Water Right Type	Status	Holder Name	Date	Face Amt	County	Source	View Reports	Water Right	Open in GIS	Export to Excel
A004289	002137	000751	Appropriative	Licensed	FRANK KENTON	10/31/1924	9.8 acre-ft/yr	Los Angeles	UNXX	View Reports	View License	Open in GIS	Download to Excel
A001269	000586	000122	Appropriative	Licensed	GATEWAY TRIANGLE PROPERTIES	05/05/1919	39.1 acre-ft/yr	Kern	UNSP	View Reports	View License	Open in GIS	Download to Excel
A012670	008072	005709	Appropriative	Revoked	GREGORIO B ABREU	04/09/1998	0 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel
A002634	001167	000456	Appropriative	Licensed	Gloria Putnam	11/10/1921	9.7 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
A019848	008046	008046	Appropriative	Licensed	IVY L BERR	11/18/1960	0.1 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
A004729	002723	001104	Appropriative	Licensed	JAMES D KIRBY	08/11/1925	0.7 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
D031374		000648	Registration Domestic	Registered	JIM GERDLESTONE	08/04/2004	2.9 acre-ft/yr	Los Angeles	UNSP	View Reports	View Certificate	Open in GIS	Download to Excel
A010830	006351	006763	Appropriative	Licensed	KEVIN BUCHANAN	06/12/1944	15 acre-ft/yr	Los Angeles	PUZZLE CANYON	View Reports	View License	Open in GIS	Download to Excel
A003268	001450	001083	Appropriative	Revoked	LARRY L MYERS	02/12/1998	0 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel
A017426	011028	006316	Appropriative	Licensed	LILAC HILLS ESTATES LP	01/18/1957	1.6 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
A000016	000030	000041	Appropriative	Licensed	LILAC HILLS ESTATES LP	02/19/1915	18.1 acre-ft/yr	Los Angeles	ICY SPRING NO 1, ICY SPRING NO 2, KERR SPRING NO 1, KERR SPRING NO 2	View Reports	View License	Open in GIS	Download to Excel
A000912	000476	002407	Appropriative	Licensed	LITTLEROCK CREEK IRRIGATION DISTRICT	02/07/1918	5500 acre-ft/yr	Los Angeles	LITTLE ROCK CREEK	View Reports	View License	Open in GIS	Download to Excel
A027133	018806	012554	Appropriative	Licensed	LOUIS I BELL	12/04/1981	6.5 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
A027956	019251	012787	Appropriative	Licensed	LOUIS I BELL	01/24/1984	28.5 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel

S003198	Statement of Div and Use	Claimed	MARILYN SECHLER	01/01/1980	0 acre-ft/yr	Los Angeles	BIG ROCK WASH	View Reports	View Statement	Open in GIS	Download to Excel
A005466	Appropriative	Licensed	MARK BLAKELY	05/11/1927	1.6 acre-ft/yr	Los Angeles	UNSP	View Reports	View License	Open in GIS	Download to Excel
S025283	Statement of Div and Use	Claimed	MICHAEL LEWIS	11/10/2015	0 acre-ft/yr	Los Angeles	Cruthers Creek	View Reports	View Statement	Open in GIS	Download to Excel
Z000941	Section 12 File	Certified	PALMDALE IRRIGATION DISTRICT	03/06/1918	0 acre-ft/yr	Los Angeles	LITTLE ROCK CREEK	View Reports	N/A	Open in GIS	Download to Excel
A010092A	Appropriative	Licensed	PUNCHBOWL CANYON WATER ASSN	12/20/1940	16 acre-ft/yr	Los Angeles	PUNCHBOWL CANYON	View Reports	View License	Open in GIS	Download to Excel
D03197Z	Registration Domestic	Registered	RAYMOND COBB	10/17/2012	2.5 acre-ft/yr	Los Angeles	UNNAMED SPRING	View Reports	View Certificate	Open in GIS	Download to Excel
C002871	Stockpond	Certified	BITTER PARK CORPORATION	12/31/1978	0 acre-ft/yr	Los Angeles	UNST	View Reports	View Certificate	Open in GIS	Download to Excel
A004246	Appropriative	Licensed	SALLIE L CHATTERON	07/01/1938	17.1 acre-ft/yr	Kern	COTTONWOOD CREEK	View Reports	View License	Open in GIS	Download to Excel
A006056	Appropriative	Licensed	STEPHEN S CHANG	09/17/1928	16.7 acre-ft/yr	Los Angeles	FALLEN OAK CAN UNDERFLOW	View Reports	View License	Open in GIS	Download to Excel
A010589	Appropriative	Licensed	VINCENT STUART JEFFERDS	05/26/1950	22.4 acre-ft/yr	Los Angeles	UNCR	View Reports	View License	Open in GIS	Download to Excel
A003857	Appropriative	Licensed	WALTER GROVER	02/18/1924	6.6 acre-ft/yr	Los Angeles	UNSP (3)	View Reports	View License	Open in GIS	Download to Excel
A006548	Appropriative	Revoked	WAYNE F MORRIS	12/29/1998	0 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel
A003785	Appropriative	Revoked	WAYNE F MORRIS	12/29/1998	0 acre-ft/yr			View Reports	N/A	Open in GIS	Download to Excel
S013831	Statement of Div and Use	Claimed	WHITECLIFF WATER ASSOCIATION	09/08/1992	0 acre-ft/yr	Los Angeles	UNST	View Reports	View Statement	Open in GIS	Download to Excel
A021845	Appropriative	Licensed	YON SUK CHAE	03/26/1970	0.5 acre-ft/yr	Los Angeles	MILE HIGH SPRING #2	View Reports	View License	Open in GIS	Download to Excel
A005544	Appropriative	Licensed	YON SUK CHAE	06/24/1927	5.1 acre-ft/yr	Los Angeles	MILE HIGH SPRING	View Reports	View License	Open in GIS	Download to Excel

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INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

“ATTACHMENT TAB”

ATTACHMENT 3

PROJECT JUSTIFICATION

1.0 PROJECT SUMMARY

The Indian Wells Valley groundwater basin is identified by DWR as a critically overdrafted basin of Medium Priority, and as such, the GSA is required to develop a Groundwater Sustainability Plan (GSP) by January 31, 2020, in compliance with SGMA. The extents of the Indian Wells Valley groundwater basin, along with the DAC, SDAC, and EDA within the GSA boundaries are provided in the figures submitted under Q10 of the “Questions” tab of this application (Figure A, B, C, and D). The Indian Wells Valley Groundwater Authority (IWVGA), the established local Groundwater Sustainability Agency (GSA), is submitting this proposal. Funding of this proposal would provide for the development of the GSP for the entire Indian Wells Valley groundwater basin, along with the associated and necessary tasks required to develop the GSP. Individual tasks associated with the planning and developments activities required for completing the GSP are summarized below.

Groundwater Model: Construction of a hydrogeologic conceptual model and numerical groundwater model to provide tools to estimate the groundwater aquifer’s hydrologic water budget, assess groundwater level and quality trends, and evaluate different strategies to provide long-term sustainable groundwater management for the Indian Wells Valley groundwater basin.

Salt and Nutrient Management Plan: Development of a Salt and Nutrient Management Plan to facilitate basin-wide management in a manner that optimizes recycled water use while protecting and sustaining groundwater supplies and beneficial uses.

Data Management System: Establishment of a comprehensive geo-referenced database that stores and reports physical and environmental datasets to allows basin managers to assure measurable objectives and sustainability goals are met.

Identify and Evaluate Data Gaps: Identification and prioritization of basin-wide data gaps in the current monitoring network to help refine the monitoring network, validate the hydrogeologic conceptual model and update the numerical groundwater model.

Monitoring Wells: Installation of four new monitoring wells to fill in lithologic, groundwater level, and groundwater quality data gaps to help reduce uncertainty in model simulations.

Stream Gages: Installation of two new stream gages will be to fill hydrologic data gaps to help reduce uncertainty in model simulations.

Weather Stations: Installation of two new weather stations will be to fill in meteorological data gaps to help reduce uncertainty in model simulations.

Water Quality and Stable Isotope Sampling: Sampling and analysis of surface water and groundwater to fill in water quality and hydrogeologic data gaps to help reduce uncertainty in model simulations.

Aquifer Tests: Performance of aquifer performance tests to fill in hydrogeologic data gaps to help reduce uncertainty in model simulations.

Recycled Water Study: Identification of existing recycled water supply and demand as wells as location of potential new recycled water users and required infrastructure.

Imported Water Study: Evaluation of water supply data, potential imported water sources, and infrastructure requirements to increase water supply reliability.

GSP Preparation: Preparation of a basin-wide GSP, in accordance with SGMA regulations, that incorporates the findings of the above mentioned studies and activities in order to develop long-term sustainable groundwater management strategies with the goal improving groundwater reliability.

2.0 TECHNICAL NEED

The Indian Wells Valley groundwater basin resources are currently not sustainably managed. Overdraft conditions have existed since the 1960s as a result of groundwater pumping exceeding the natural basin yield. DWR identified the Indian Wells Valley groundwater basin as in critical overdraft after conducting a review of available data and reports. Over 30 groundwater level hydrographs and over 20 technical reports were evaluated for chronic decline in groundwater levels, chronic reduction in storage, and water quality degradation. DWR also consulted with local agencies to obtain additional data. The results demonstrated evidence of chronic decline of groundwater levels prior to the base period (defined as 1989-2009), during the base period, and after the base period.

Currently, water producers in the basin have been able to mine the basin to meet water demands; however, this practice is resulting in a reduction of storage and if left unmanaged, will seriously impact groundwater producers' ability to supply potable water. Disadvantaged Communities (DACs), Severely Disadvantaged Communities (SDACs), and Economically Distressed Areas (EDAs) overlying the Indian Wells Valley groundwater basin are particularly susceptible to adverse effects resulting from chronic lowering of groundwater levels because their wells are typically shallow.

Indian Wells Valley groundwater basin is identified by DWR as a critically overdrafted basin of Medium Priority, and as such, the GSA is required to develop a Groundwater Sustainability Plan (GSP) by January 31, 2020, in compliance with SGMA. Funding of this proposal would provide for the development of the Indian Wells Valley groundwater basin GSP, including funding the technical studies and necessary and associated tasks required to support the development of the GSP and future management of the basin, within the guidelines of the Sustainable Groundwater Management Act. The goal of the Indian Wells Valley groundwater basin GSP is to develop sustainable management actions that culminate in the absence of undesirable and unsustainable groundwater conditions, including the chronic lowering of groundwater levels, within 20 years of GSP implementation. Development of the GSP will improve water supply and quality reliability Indian Wells Valley through implementation of measurable sustainability objectives and milestones intended to achieve sustainability. The GSP will characterize the Indian Wells Valley groundwater basin in order to develop sustainability objectives; create a robust monitoring network and platform for tracking sustainability objectives; and study and analyze potential management strategies that could be used to achieve long-term water sustainability in the basin. Accordingly, funding of this proposal would provide for the development of the following GSP tasks:

- Groundwater Model Development
- Salt and Nutrient Management Plan Development
- Data Management System development
- Identification and Evaluation of Data Gaps
- Monitoring Wells Installation
- Stream Gages Installation
- Weather Stations Installation
- Water Quality and Stable Isotope Sampling
- Aquifer Tests
- Recycled Water Study
- Imported Water Study
- GSP Preparation

3.0 PROJECT SUPPORT

Pursuant to DWR's "Groundwater Sustainability Plans and Projects Proposal Solicitation Package", dated September 2017, the following information is provided below regarding funding for the proposer Category 2 Project (GSP development):

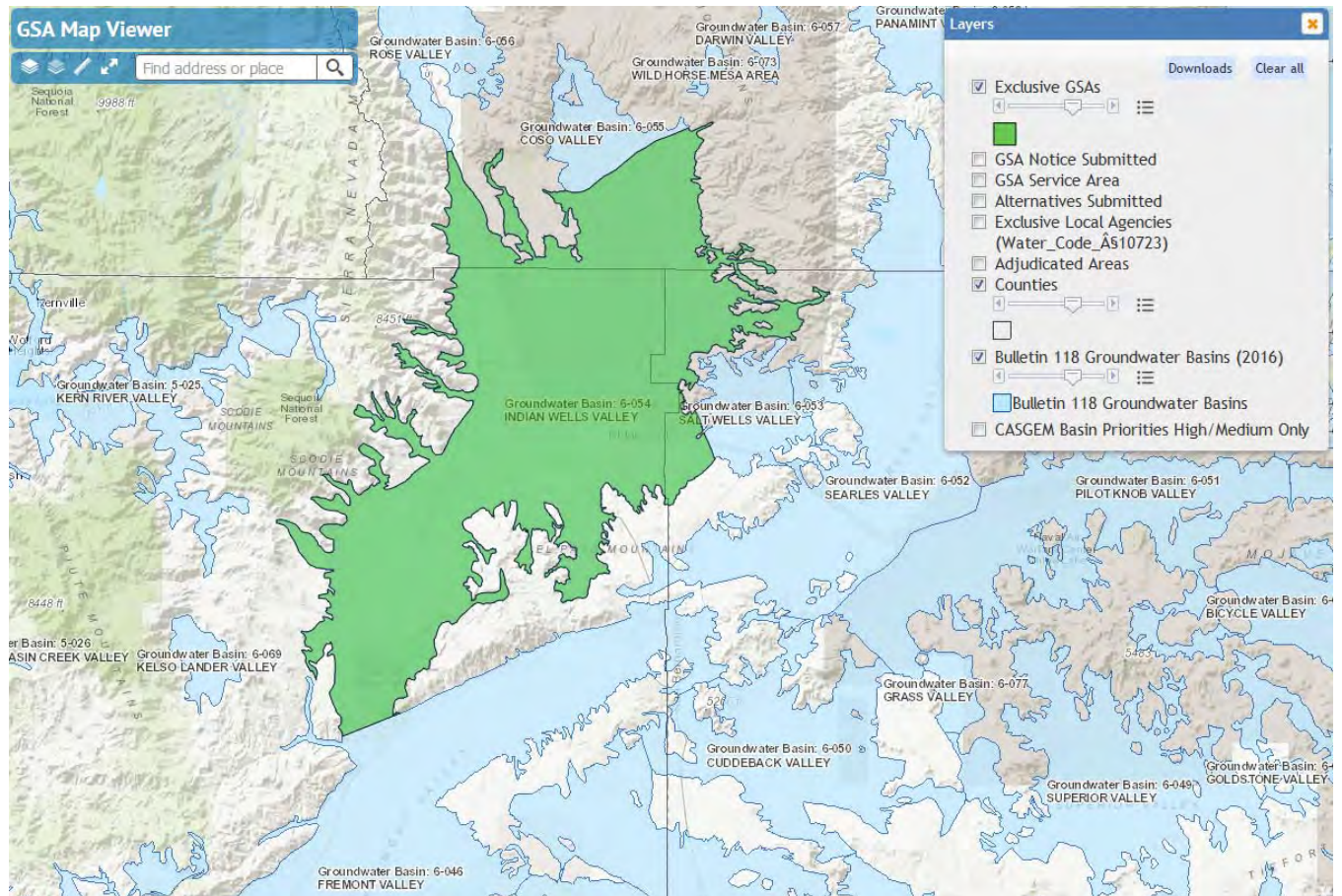
- "If one GSA is established in the basin, describe and provide documentation of any communication with GSA(s) in neighboring basins regarding groundwater sustainability planning and GSP development."
- "Describe and provide documentation of any communication with beneficial users of groundwater in the basin that may potentially be affected by implementation of the project, including, but not limited to DACs, SDACs, agricultural water users, municipal water users, wildlife refuges, or other stakeholders."

GSA Coordination

The IWVGA is the sole GSA for the Indian Wells Valley Groundwater Basin. The GSA formation document provided by the IWVGA to DWR is provided in Attachment 2 ("Eligibility Documentation"). GSA formation is a requirement for "high" and "medium" priority basins under the Sustainable Groundwater Management Act (the Indian Wells Valley groundwater basin is a medium priority basin).

The groundwater basins in the vicinity of the Indian Wells valley groundwater basin are shown in the figure below. The groundwater basins adjacent to the Indian Wells valley groundwater basin include the Rose Valley groundwater basin (6-056), the Coso Valley groundwater basin (6-055), the Salt Wells Valley groundwater basin (6-053), and the Fremont Valley groundwater basin (6-054). These adjacent basins have been designated as either "low" or "very low" priority basins and do not require GSA formation. As a result, the IWVGA has not coordinated with GSAs in adjacent groundwater basins.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL
PROJECT JUSTIFICATION



Location of Groundwater Basins in the Vicinity of the Indian Wells Valley Groundwater Basin

(Source: <http://sgma.water.ca.gov/webgis/index.jsp?appid=gasmaster&rz=true>)

Communication with Beneficial Users of Groundwater

During the formation of the IWVGA, a comprehensive listing of interested parties (including name, email, and phone number) was developed. The listing includes local community residents (including Disadvantaged Communities, Severely Disadvantaged Communities, and Economically Distressed Areas), businesses, large and small-scale agriculture, academic institutions, relevant state and local agencies, federal agencies, non-profit organizations, and community organizations. This listing of over 150 stakeholders includes representatives from all types of water users within the Indian Wells Valley groundwater basin and was used during the 17-month long GSA formation process for notification of

public meetings, notifications, and updates related to discussions on the SGMA. This stakeholders listing will continue to be used during the development of the GSP.

The IWVGA conducts regular Board meetings (on a monthly basis) to support the development of the GSP for the Indian Wells Valley groundwater basin (i.e. proposed Project), present information concerning the GSP, and to receive input from the public attending the meetings. The IWVGA has created a Technical Advisory Committee (TAC) which meets on a monthly basis and will assist in the development of the GSP. In addition, the IWVGA Board has created a Policy Advisory Committee (PAC) which meets on a monthly basis and provides representation to all types of water users in the Indian Wells Valley groundwater basin on policy matters of the Board associated with SGMA (including the GSP). According to Article 5.7 of the "Bylaws of the Indian Wells Valley Groundwater Authority" (Bylaws), dated May 18, 2017, the voting members of the PAC include water users from the following:


- 2 representatives from Large Agriculture
- 1 representative from Small Agriculture
- 2 representatives from Business Interests
- 2 representatives from Domestic Well Owners
- 2 representatives from residential customers of a public agency water supplier
- 1 representative from Eastern Kern County Resource Conservation District
- 1 representative from Wholesaler and Industrial User

In addition, the Bylaws require at least one of the appointed voting PAC members shall also represent Disadvantaged Communities. A copy of the Bylaws is provided as Attachment 3-1.


The Board, TAC, and PAC meetings are open to members of the public, including representatives of all types of water users. All IWVGA meeting materials (including agendas, minutes, resolutions, ordinances, presentations, and packages) are available to the public at the following IWVGA website:

<https://www.kerncounty.com/WaterResources.aspx>.

Residents ▾
Visitors ▾
Businesses ▾
Services ▾
Careers ▾
Departments ▾
Emergency ▾



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Sustainable Groundwater Management (SGMA)


Acronyms used on this page:
 CASGEM = California Statewide Groundwater Elevation Monitoring Program
 DWR = Department of Water Resources
 GSA = Groundwater Sustainability Agency/Agencies
 GSP = Groundwater Sustainability Plan(s)
 IWVGA = Indian Wells Valley Groundwater Authority
 SGMA = Sustainable Groundwater Management Act
 SWRCB = State Water Resources Control Board (Water Board)
 WRM = Water Resource Manager

[IWVGA Joint Powers Agreement \(7/15/2016\) \(PDF\)](#)

[IWVGA Bylaws \(5/18/2017\) \(PDF\)](#)

[Desert Research Institute Groundwater Evaluation \(PDF\)](#)

General Info
FAQ
IWVGA Mtgs
IWVGA Resolutions
PAC/TAC Mtgs
Undistricted Areas
Agreements



Indian Wells Valley Groundwater Authority Board
 Left to Right: Brian Longbottom (US Navy), Ryan Klausch (BLM), Peggy Breeden (City of Ridgecrest), Peter Brown (IWWVD), Bob Harrington (Inyo County), Mick Gleason (Kern County), Bob Page (San Bernardino County)

IWV Groundwater Authority Meetings [2017 Meeting Schedule \(PDF\)](#)

[Meeting Videos](#) (Courtesy of the City of Ridgecrest)

9/21/17	<ul style="list-style-type: none"> • Agenda (PDF) • Agenda and Meeting Package (PDF - 6MB)
8/17/17	<ul style="list-style-type: none"> • Agenda (PDF) • Agenda and Meeting Package (PDF - 2MB) • Water Resources Manager Contract (PDF) • Minutes (PDF)
8/10/17	<ul style="list-style-type: none"> • Agenda (PDF) • Minutes (PDF)
7/20/17	<ul style="list-style-type: none"> • Agenda (PDF) • Agenda and Meeting Package (PDF - 1.6MB)

During a PAC meeting on August 3, 2017, representatives from the “Domestic Well Owners” in the Indian Wells Valley groundwater basin provided a presentation regarding objectives and recommendations for groundwater management, including the development of the GSP. A copy of the presentation is provided as Attachment 3-2.

The IWVGA Board, TAC, and PAC meetings are also regularly attended by members of two Ridgecrest news organizations: the Ridgecrest Daily Independent and the Ridgecrest News Review. News articles regarding key discussions at these public meetings are regularly published and allow for dissemination of Project information to an audience that did not attend the public forums in person. News articles providing examples of IWVGA communication with well owners and DACs, SDACs, and EDAs, at Board, TAC, and PAC meetings are included as Attachment 3-3.

DACs, SDACs, and EDAs are located within the Indian Wells Valley groundwater basin and include portions of the City of Ridgecrest and all or portions of the census designated places of China Lake Acres, Inyokern, and Pearsonville; and the unincorporated communities of Linnie, Ricardo, and China Lake. The proposed Project (GSP development) includes outreach and support to DACs, SDACs, and EDAs within the Indian Wells Valley groundwater basin and the vicinity. Basin overdraft and the need to bring the basin into a sustainable balance are critical water supply issues for DACs, SDACs, and EDAs that the proposed Project will address. A further discussion regarding outreach and support to DACs, SDACs, and EDAs are provided in Attachment 7 (“Disadvantaged Communities”), Attachment 8 (“Severely Disadvantaged Communities”), and Attachment 9 (“Economically Distressed Areas”), respectively.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

ATTACHMENT 3-1
IWVGA BYLAWS

BYLAWS

of the

INDIAN WELLS VALLEY

GROUNDWATER AUTHORITY

May 18, 2017

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INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

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PREAMBLE

These Bylaws are adopted pursuant to Section 8.05 of the Joint Exercise of Powers Agreement creating the Indian Wells Valley Groundwater Authority (the "Agreement").

ARTICLE 1. THE AUTHORITY

- 1.1 **NAME OF THE AGENCY.** The name of the Agency created by the Agreement shall be the Indian Wells Valley Groundwater Authority ("Authority").
- 1.2 **SEAL.** The seal of the Authority shall be in the form of a circle and shall bear the name of the Authority and the year 2016, which is the year of its organization.
- 1.3 **PRINCIPAL OFFICE OF THE AUTHORITY.** The principal office of the Authority shall be at the offices of the Indian Wells Valley Water District, located at 500 W. Ridgecrest Boulevard, Ridgecrest, California, 93555.
- 1.4 **AUTHORITY POWERS.** The powers of the Authority are established in accordance with Article VI of the Agreement and vested in the Authority's Board of Directors ("Board"). The Board reserves the right to delegate such powers as are appropriate and permissible by law.

ARTICLE 2. MEETINGS

- 2.1 **OPEN MEETINGS.** Meetings of the Board and any Authority committees, including those with telephonic participation, shall be held in accordance with the Ralph M. Brown Act (California Government Code sections 54950, et seq.). No action shall be taken by secret ballot at such meetings. Meetings of the Board and Authority committees shall be held within the geographical boundaries of the Basin, except as permitted by the Brown Act.
- 2.2 **REGULAR MEETINGS.** The regular meetings of the Authority shall be held at a location within the geographical boundaries of the Basin on a day and time, which the Authority's Board may from time-to-time designate. In the event a regular meeting would take place on a legal holiday, the meeting may be rescheduled to another date and time as determined by the Board.
- 2.3 **SPECIAL MEETINGS.** Special meetings of the Board shall be conducted pursuant to California Government Code section 54956, and they may be called by the Chairperson or by the concurrence of any two Primary Directors.
- 2.4 **EMERGENCY MEETINGS.** Emergency meetings of the Board shall be conducted pursuant to California Government Code section 54956.5, and they may be called by the Chairperson or by the concurrence of any two Primary Directors.

- 2.5 AGENDA. The General Manager, in consultation with IWVGA General Counsel and staff of the Members, shall prepare the draft agenda, which must be reviewed and approved by the General Counsel. In the event there is a disagreement between the General Manager and the General Counsel on any topic, the Board Chairperson will be consulted to provide the necessary direction. The Chairperson or his or her delegate shall then approve the draft agenda before its finalization and posting in accordance with the Ralph M. Brown Act.
- 2.6 QUORUM. A quorum of the Board shall consist of a majority of the Directors representing the then active General Members. In the absence of a quorum, no business may be transacted beyond the adjournment of a meeting by the remaining Directors. A Director shall be deemed present for the determination of a quorum if the Director is present at the meeting in person or if they participate in the meeting telephonically as provided for by the Ralph M. Brown Act.
- 2.7 OFFICIAL ACT. Except as otherwise provided by statute, the Authority shall adopt every official act by a vote of the Board in accordance with the applicable provisions of the Agreement.
- 2.8 VOTING. As set forth in the Agreement, the affirmative vote of a majority of the Board shall be required for the approval of any Board action. In addition, no action may be approved by the Board unless it receives the affirmative vote from no less than two of the then voting Directors representing the County of Kern, the City of Ridgecrest, and/or the Indian Wells Valley Water District.

Notwithstanding the foregoing, the Board may approve the Regular Monthly Receivables by a simple majority vote so long as the routine costs and bills making up the Regular Monthly Receivables have not been objected to by any Director. While a Director may voice an oral objection at the meeting, a Director's presence is not required and they may also file an objection in writing prior to the meeting. Likewise, any meeting of the Board may be adjourned by a simple majority vote of the then present Directors.

The voting on all matters of the Board and Committees, including minute orders, resolutions, and ordinances shall be reported on the minutes and accomplished in a manner that readily signifies the action taken and the vote or abstention on that action of each member present for the action.

- 2.9 RULES OF ORDER. All rules of order not otherwise provided for in these Bylaws shall be determined, to the extent practicable, in accordance with "Robert's Rules of Order;" provided, however, that no action shall be invalidated or its legality otherwise affected by the failure or omission to observe or follow "Robert's Rules of Order."
- 2.10 MINUTES. The Secretary shall prepare written minutes of the Board meetings, which shall be available for public inspection when approved by the Board. The record shall contain the votes and abstentions on each matter for which a vote is taken.

ARTICLE 3. OFFICERS

- 3.1 **OFFICERS OF THE BOARD.** Officers of the Authority's Board shall consist of a Chairperson and Vice-Chairperson. The Chairperson shall preside at all meetings of the Board, while the Vice-Chairperson shall perform the duties of the Chairperson in the absence or disability of the Chairperson. The Chairperson and Vice-Chairperson shall exercise and perform such other powers and duties as may be assigned by the Board.
- 3.2 **APPOINTMENT OF OFFICERS OF THE BOARD.** The Chairperson and Vice-Chairperson shall hold office for a term of one year commencing on January 1 of each and every calendar year. Beginning in 2017, the Chairperson and Vice-Chairperson shall rotate annually between the Board members representing the County of Kern, City of Ridgecrest, and the Indian Wells Valley Water District. The Board member representing the County of Kern shall be the first Chairperson followed in order by the City of Ridgecrest and then the Indian Wells Valley Water District. The Board member representing the City of Ridgecrest shall be the first Vice-Chairperson followed in order by the Indian Wells Valley Water District and then the County of Kern. Officers of the Board may be removed and replaced at any time, with or without cause by a vote of the Board. In the event that an Officer of the Board loses their position as a Primary Director, that Officer of the Board position shall become vacant and the Board shall elect a new individual to serve the remaining term.
- 3.3 **GENERAL MANAGER.** The General Manager shall have general supervision over the administration of Authority business and affairs, subject to the direction of the Board. The General Manager or designee may execute contracts, deeds, and other documents and instruments as authorized by the Board.
- Until an General Manager is appointed, and except for the Authority's General Counsel and Treasurer functions, Authority administration and management will be conducted using a collaborative staffing model in which the professional and technical staff of the member agencies work together to provide staff leadership, management, and administration of the Authority.
- 3.4 **BOARD SECRETARY.** The Secretary shall be elected by and serve at the discretion of the Board. The Secretary shall keep the administrative records of the Authority, act as secretary at meetings of the Authority, recording all votes and keep a record of the proceedings of the Authority to be kept for such purpose, and perform all duties incident to the Secretary's office. The Secretary shall maintain a record of all official proceedings of the Board. The Secretary shall also establish and maintain a list of persons interested in receiving notices regarding plan preparation, meeting announcements, and availability of draft plans, maps, and other relevant documents pursuant to Water Code Section 10723.4.
- 3.5 **GENERAL COUNSEL.** The Authority's General Counsels shall be the attorneys appointed by the County of Kern, the City of Ridgecrest, and the Indian Wells Valley

Water District. The primary responsibility to act as the Authority's General Counsel during public meetings shall rotate annually and be in coordination with who is the then acting Chairperson. For example, when the Chairperson is Kern County's representative, Kern County's attorney will act as the Authority's General Counsel during public meetings, or as otherwise directed by the Board. General Counsel shall be appointed by the Board, and shall be directly responsible to the Board. The General Counsel shall give advice or written opinions as needed and/or directed by the Board, and shall prepare proposed resolutions, laws, rules, contracts, and other legal documents for the Authority when requested to do so by the Authority. The General Counsel shall attend to all lawsuits and other matters to which the Authority is a part or in which the Authority may be legally interested and do such other things pertaining to the General Counsel's office as the Authority may request. Authority Counsel will recommend appointment of Special Counsel for matters involving more specialized legal service as required. The Board will set the compensation of Special Counsel.

- 3.5.1 RETAINER AGREEMENTS. The Board of Directors shall execute a retainer agreement with the Authority's General Counsels which shall expressly provide that each attorney acting as General Counsel shall be afforded the full and complete opportunity to represent their General Member in any dispute or action regardless of any actual or perceived conflicts with the Authority or any of its other Members. Additionally, the General Counsel shall, when deemed appropriate or called upon, seek the advice and consultation of the legal counsels, and possibly staff, from Members of the Authority on legal issues facing the Authority; in such an instance, the communications shall be confidential and protected to the fullest extent possible in law and said communications shall not in any way preclude staff or legal counsels from fulfilling their duties and obligations to their Member, including representation in any dispute or action.
- 3.6 OFFICER COMPENSATION. Officers of the Authority which are not Directors shall receive compensation as designated by the Board in written contract. When, and only if, specifically called upon by the Board in advance, non-Director officers may receive reimbursement of their actual and necessary expense at the then current IRS reimbursement rate.
- 3.7 FISCAL AGENT AND TREASURER. The County of Kern shall serve as the Fiscal Agent and Treasurer for the Authority unless otherwise directed by a vote of the Board. The Fiscal Agent shall be depository for and shall have the responsibility for all money of the Authority from whatever source. All funds of the Authority shall be strictly and separately accounted for and regular reports shall be rendered of all receipts and disbursements during the Fiscal Year as designated by the Board. The books and records of the Authority shall be open to inspection by the General and Associate Members and the Treasurer shall provide strict accountability of said funds in accordance with Government Code sections 6505 and 6505.5 and all other applicable provisions of law, including any amendments thereto.

- 3.8 WATER RESOURCES MANAGER. The Authority shall hire a consultant or consultants with the appropriate technical background, expertise, and experience to prepare and implement a Groundwater Sustainably Plan (“GSP”). This position shall be named the Water Resources Manager and they shall be responsible for preparing and implementing the GSP as directed by the Board. An engineering, or other technical firm, may perform these duties, but, in the event that they are performed by a firm, an individual shall be appointed to serve as the primary project manager. In preparing the GSP, the Authority’s Water Resources Manager will consult with the Policy Advisory Committee and the Technical Advisory Committee as directed by the Board. The Authority’s Water Resources Manager shall also provide technical information and reports to the Board as needed and/or directed by the Board. Following the adoption of the GSP, the Authority’s Water Resources Manager shall be responsible for all work needed to implement the terms of the GSP as directed by the Board, including, if so directed, the preparation of an annual report.

ARTICLE 4. DIRECTOR COMPENSATION AND EXPENSES

- 4.1 COMPENSATION. Currently, the Directors are not compensated for their service by the Authority. In the event that changes, the Board will set Director compensation pursuant to a written policy adopted by the Board and included herein.
- 4.2 EXPENSES. If previously approved by the Board, a Director shall receive actual, reasonable, and necessary reimbursement for travel, meals, lodging, registration, and similar expenses incurred on Authority business. The reimbursement rates for lodging shall not exceed the posted rates for a trade conference, but if lodging at the posted rates is not available, the reimbursement rate shall be comparable to the posted rates. For travel of 250 miles or less, Directors shall be reimbursed at the IRS mileage rate. For travel over 250 miles, Directors shall be reimbursed at a rate determined by the Board. As used herein, “transportation” includes travel to and from terminals. Automobile rental expenses shall be approved in advance. Reimbursement for meals, other than alcoholic beverages, shall be at the rate established by the IRS or actual reasonable cost not to exceed \$90 per day. Directors may declare the amount of the meal under penalty of perjury in lieu of receipts if the amount is less than the IRS rate. Claims for expense reimbursement shall be submitted to the Board on forms provided by the Authority within 30-days after the expense has been incurred. The General Manager shall determine whether the claim satisfies the requirements of this section and if the claim is denied, the claimant may appeal to the Board.

ARTICLE 5. STANDING COMMITTEES

- 5.1 ESTABLISHMENT OF STANDING COMMITTEES. In accordance with Section 7.04 of the Agreement, the Board may from time to time establish standing committees for the purpose of making recommendations to the Board on the various activities of the Authority. The establishment of any standing committee and its general duties shall require a vote of the Board, and the activities of the standing committee shall be subject

to the provisions of the Ralph M. Brown Act (California Government Code sections 54950, et seq.). Standing committees shall exist for the term specified in the action creating the committee and, the Board may dissolve a committee at any time through a vote of the Board.

- 5.2 CONDUCT OF STANDING COMMITTEES. All standing committee meetings shall be noticed, held, and conducted in accordance with the provisions of the Ralph M. Brown Act (California Government Code sections 54950, et seq.). Except as set forth below, the Board shall appoint the respective committee chairs in consultation with the committee members and the Board may further establish rules of conduct for said standing committees. The Board shall, in consultation with the committee members, establish a time and provide a place for regular meetings of any standing committee. The Board Chairperson may call a special meeting of a standing committee as the need arises. The Standing Committee's chairperson, vice chairperson, or three members may make the request to the Board for calling a special meeting. Standing committee meeting minutes shall be recorded and upon approval shall be distributed to the Board. Unless determined by General Counsel that a legal conflict, a public records exemption, or other privilege exists, standing committee members shall have access to and may inspect the records of the Authority, including, but not limited to, the accounting books and records and minutes of the proceedings of the Board and other committees of the Board, at any reasonable time. A designated representative of the committee member may make any inspection under this Section and the right of inspection includes the right to copy.

A quorum of a committee shall be a majority of the appointed committee members that hold a vote. As provided in the Brown Act, no meeting of a standing committee shall occur without the attendance of a quorum of its committee members. The affirmative vote of the majority of the members present at a standing committee meeting is necessary for the passage of any motion. The voting on all matters of standing committees, including minute orders, resolutions, and ordinances shall be reported on the minutes and accomplished in a manner that readily signifies the action taken and the vote or abstention on that action of each member present for the action. All rules of order for a standing committee not otherwise provided for in these Bylaws shall be determined, to the extent practical, in accordance with "Robert's Rules of Order;" provided, however, that no action shall be invalidated or its legality otherwise affected by the failure or omission to observe or follow "Robert's Rules of Order." The Authority's General Counsel shall resolve all questions of compliance with "Robert's Rules of Order."

- 5.3 STANDING COMMITTEE MEMBERSHIP. Standing committee appointments and removal shall be made at the Board's discretion.
- 5.4 STANDING COMMITTEE DIRECTION. The Board shall assign tasks to its standing committees, the expected duration for completion of a particular task, and a summary of the resources, including staff or consultant support available to the standing committee in performing the task.

5.5 POLICY ADVISORY COMMITTEE. As authorized by California Water Code Section 10727.8, which provides that a “groundwater sustainability agency may appoint and consult with an advisory committee consisting of interested parties for the purposes of developing and implementing a groundwater sustainability plan,” the Board hereby establishes a standing committee named the Policy Advisory Committee (PAC). The PAC is the primary advisory body to the Board on all policy-related matters of the Board that are appropriate for the PAC input. The Board shall provide tasks to the PAC and the PAC shall report directly to the Board. As set forth Section 5.9, the PAC shall be provided an opportunity to advise the Board on the development of the Indian Wells Valley Groundwater Sustainability Plan (GSP) including all components that, in the aggregate, comprise the GSP, including, but not limited to, substantive components required of a GSP under California Water Code Division 6, Part 2.74, Chapters 6 and 8, and under California Code of Regulations, Title 23, Division 2, Chapter 1.5, Subchapter 2 (“GSP Elements.”), prior to the Board’s approval of each GSP Element. Upon adoption of the GSP, the PAC shall continue to meet regularly as provided by the Board and, where legally appropriate, advise the Board concerning the policy matters pertaining to the implementation of the GSP. In the event that the GSP is subject to modification, such modifications shall be made in accordance with these Bylaws. The PAC shall not discuss or influence any enforcement aspects of GSP implementation, so as to avoid conflicts of interest and other legal limitations. Sections 5.3 through 5.13 shall be subject to annual review by the Board.

5.6 POLICY ADVISORY COMMITTEE MISSION AND OBJECTIVES. As required by California Water Code Section 10723.2, the Authority as a Groundwater Sustainability Agency must consider the interests of all beneficial uses and users of groundwater within the Basin. To assist the Authority with meeting this requirement, the objectives of the PAC are to: (1) provide all water users in the Basin with a meaningful voice and representation on policy matters of the Board associated with SGMA; (2) work collaboratively for the benefit of the Basin as a whole; (3) provide input and recommendations to the Board, in collaboration with the Water Resources Manager, and other committees of the Board, in support of actions that facilitate bringing the Basin into compliance with SGMA; and (4) work in good faith to achieve consensus and make unified recommendations to develop a GSP and for management actions to achieve groundwater sustainability in accordance with the requirements of SGMA.

5.7 **POLICY ADVISORY COMMITTEE MEMBERSHIP.** The Board shall appoint voting PAC members to the following constituent groups:

- 2 representatives from Large Agriculture
- 1 representative from Small Agriculture
- 2 representatives from Business Interests
- 2 representatives from Domestic Well Owners
- 2 representatives from residential customers of a public agency water supplier
- 1 representative from Eastern Kern County Resource Conservation District
- 1 representative from Wholesaler and Industrial User

At least one of the appointed voting PAC members shall, in addition to representing one of the above listed constituent groups, shall also represent Disadvantaged Communities as defined by California Public Resources Code Section 75005(g), by residing or conducting business within a Disadvantaged Community or serving water to a Disadvantaged Community.

An individual may qualify as a Domestic Well Owner representative if they own a well used for residential purposes only, if they are part of a well sharing agreement, or if they are a shareholder/member of a mutual water company.

Individuals seeking appointment to a voting position on the PAC must be a citizen of the United States that is at least 18 years of age and either a registered voter, landowner, authorized representative of a landowner, or a person that relies on groundwater from the in Indian Wells Valley Groundwater Basin. Individuals seeking membership to a voting position on the PAC must submit an application which will be reviewed and acted upon by the Board. However, since the Eastern Kern County Resource Conservation District is a public agency, its Board will be allowed to submit a request for the appointment of an individual from their agency.

The Board shall also provide non-voting membership on the PAC for the following:

- 1 representative from the Indian Wells Valley Water District
- 1 representative from the Department of the Navy
- 1 representative from the Bureau of Land Management

Additionally, while not considered official members of the PAC and not holding any voting rights on matters before the PAC, one representative from Kern County Planning and Natural Resources Department shall be appointed to provide land use expertise.

The public entities and Departments set forth above may request the appointment of a PAC member representative that is a member of their Board or organization.

Having already conducted an application process and upon the proper and thorough review of the applications submitted, the Board has chosen the initial PAC membership set forth in Authority Resolution _____. Said Resolution may be amended in the future as the need arises to reflect changes in PAC membership.

- 5.8 POLICY ADVISORY COMMITTEE CHAIRPERSON AND VICE-CHAIRPERSON, AND MEMBERSHIP TERMS. The PAC shall appoint a PAC Chairperson and PAC Vice-chairperson in consultation with the Board. The non-voting members of the PAC and the Eastern Kern County Resource Conservation District may change their PAC member representatives without Board approval. All other changes in PAC membership shall require Board approval. Changes in individual PAC members should generally coincide with the annual membership review process. In the event that a PAC member

needs to step down outside of this timeframe, the member should notify the PAC Chair (or, as warranted, the Vice-Chair) in writing of the need for change no less than two weeks prior to the next PAC meeting. If the member desires, they may provide a recommendation to the Board on replacement member to the PAC.

The initial term of PAC member representatives shall be until the GSP is completed and approved by DWR. Subsequent terms shall be two years, culminating at the end of a calendar year.

- 5.9 POLICY ADVISORY COMMITTEE ROLES AND RESPONSIBILITIES. The PAC, in consultation with the Water Resources Manager, shall be tasked by the Board to develop non-binding proposals on policy matters pertaining to each GSP Element (“PAC Proposals”). The PAC shall strive for consensus in all of its decision-making, particularly when crafting PAC Proposals. If the PAC is unable to reach consensus, the range of opinions provided, including areas of agreement and disagreement, will be documented in meeting summaries (“PAC Meeting Summaries”). PAC Proposals and PAC Meeting Summaries shall be submitted to the Water Resources Manager for initial review and comment. After considering all comments provided by the Water Resources Manager, and incorporating such comments to the extent deemed appropriate by the PAC, the PAC shall submit final PAC Proposals and any final PAC Meeting Summaries to the Board for consideration. If the PAC deems it inappropriate to include any comments or concerns of the Water Resources Manager, the PAC will provide the Board with a detailed reasoning to support its determination.

The Board shall consider all PAC Proposals and PAC Meeting Summaries, as well as any technical information and reports provided by the Water Resources Manager that are requested by the Board, and after such consideration, the Board shall make a final approval of each GSP Element and direct the Water Resources Manager to prepare the GSP Element in accordance with the Board’s approval.

- 5.10 PAC ATTENDANCE. PAC member representatives must regularly attend all meetings of the PAC. PAC member representatives who regularly miss PAC meetings may be removed by the action of the Board. PAC member representatives agree to: (1) arrive at each meeting fully prepared to discuss the issues on the agenda, where such preparation includes reviewing meeting minutes, policy information, and draft documents distributed in advance of each PAC meeting; (2) present and represent the views of their constituent group on the issues being discussed and be willing to engage in respectful, constructive dialogue with other members of the PAC; (3) develop a problem-solving approach in which they consider the interests and viewpoints of all stakeholders in the Basin; (4) keep their constituent group informed about ongoing issues and actively seek their input; and (5) pursue the PAC’s purpose and goals and support GSP development and where legally appropriate implementation. An individual appointed by the Board shall prepare written minutes of all PAC meetings, which shall be available for public inspection once reviewed and approved by the PAC.

- 5.11 TECHNICAL ADVISORY COMMITTEE. The Board hereby establishes a standing committee named the Technical Advisory Committee (TAC) which will assist the Water

Resources Manager in the preparation of the GSP and will work collaboratively with other committees of the Board.

- 5.12 TECHNICAL ADVISORY COMMITTEE MEMBERSHIP. The TAC shall be comprised of individuals representing PAC members, PAC membership categories, and the interests of the Basin landowners and water users. Members of the TAC must have a formal education and experience in a groundwater related field and an understanding of the technical aspects of the Basin or similar groundwater basins in California. Each member of the PAC may nominate one member of the TAC for review and possible approval by the Board. The Board may also appoint members to the TAC that are not affiliated with any PAC members to ensure proper stakeholder representation. The initial TAC membership shall be adopted by Authority Resolution. Said Resolution may be amended in the future as the need arises to reflect changes in appointment of TAC representatives consistent with these Bylaws. The initial term of membership for the TAC shall be until the GSP is completed and approved by DWR. Subsequent terms of membership shall be two years, culminating at the end of a calendar year. The TAC shall appoint a TAC Chairperson and a TAC Vice-Chairperson in consultation with the Water Resources Manager.
- 5.13 TECHNICAL ADVISORY COMMITTEE ROLES AND RESPONSIBILITIES. As required by law and as directed by the Board, the Water Resources Manager shall be responsible for the preparation of each technical element of the GSP. The Water Resources Manager shall attend and set the agenda of each TAC meeting so that each technical element of the GSP is presented to the TAC, in draft, to afford the TAC a reasonable opportunity to review and conduct a thorough evaluation prior to finalization of that technical element. In the course of evaluating each draft technical element of the GSP, the TAC shall strive for consensus in preparing written recommendations to the Water Resources Manager (“TAC Proposals”). The TAC shall submit its TAC Proposals to the Water Resources Manager, as well as written summaries of the range of TAC comments reflecting any areas of disagreement for consideration in the final preparation of any GSP Element. If any TAC member disagrees with any proposed GSP element following discussion with the Water Resources manager, that member (or members) may submit a written analysis and objection to the Board no later than 72 hours before that GSP element is considered by the Board. In the event that the GSP is subject to modification, such modifications shall be made in accordance with these Bylaws. The TAC shall not discuss or influence any enforcement aspects of GSP implementation, so as to avoid conflicts of interest and other legal limitations.

ARTICLE 6. BUDGET AND FINANCES

- 6.1 BUDGET. The Authority shall operate pursuant to an operating budget adopted in accordance with Section 9.07 of the Agreement. The Authority shall endeavor to operate each year pursuant to an annually balanced budget so that projected annual expenses do not exceed projected annual revenues. If the General Manager or Chairperson determines the approved budget is inadequate, he or she shall submit recommended modifications to the Board for consideration and action. The General

Manager shall implement the approved or revised budget, provided all expenditures for capital improvements shall be approved by the Board before they are undertaken.

- 6.2 **APPROVAL OF WARRANTS AND SIGNATURE OF CHECKS.** The Board shall approve all warrants and authorize issuance of checks in payment thereof. A check register showing the check number, payee, amount, and the purpose of each check, as prepared by the Treasurer, will be sent to the Board as required by the Brown Act. Checks in payment of utility bills, postage, payroll, payroll taxes, credit union collections, petty cash, emergency repairs, and invoices subject to discount and interfund transfers may be disbursed prior to Board approval. Such items shall be set forth on the next regular check register and presented to the Board.
- 6.3 **GENERAL AND SPECIAL BOOKS OF ACCOUNT.** The Treasurer shall maintain books of account in accordance with accepted accounting principles showing the status of all monies received and disbursed. Such general and special fund accounts shall be maintained as are necessary to accomplish the purpose of the Authority.
- 6.4 **FUND DEPOSITORIES.** Currently the County of Kern is Fiscal Agent and Treasurer for the Authority and all funds of the Authority are deposited with the County of Kern. If the Board desires to designate a new depository for Authority funds, the Board shall do so through a written policy included herein.

ARTICLE 7. DEBTS AND LIABILITIES

- 7.1 **DEBTS AND LIABILITIES.** Except as may be specifically provided for in the Agreement and/or California Government Code Section 895.2 as amended or supplemented, the debts, liabilities, and obligations of the Authority are not, and will not be, the debts, liabilities, or obligations of any or all of the Members. However, nothing in this Article or in the Agreement prevents, or impairs the ability of, a Member or Members, from agreeing, in a separate agreement, to be jointly and/or severally liable, in whole or in part, for any debt, obligation, or liability of the Authority, including, but not limited to, any bond or other debt instrument issued by the Authority.

ARTICLE 8. RECORDS RETENTION

- 8.1 **RECORDS RETENTION POLICY.** The Authority shall adopt a records retention policy. This policy will provide criteria and procedures for the retention or destruction of Authority records.
- 8.2 **MAINTENANCE AND INSPECTION OF AGREEMENT AND BYLAWS.** The Authority will keep at its principal executive office the original or copy of the Agreement and these Bylaws as amended to date, which will be open to inspection by the Authority or any Member at all reasonable times during office hours.

- 8.3 INSPECTION RIGHTS OF MEMBERS. Provided that upon the advice of General Counsel no legal conflict exists, any Member may inspect any record of the Authority, including, but not limited to, the accounting books and records and minutes of the proceedings of the Board and committees of the Board, at any reasonable time. A designated representative of the entity may make any inspection and copying under this Section, and the right of inspection includes the right to copy.
- 8.4 INSPECTION BY DIRECTORS. Provided that upon the advice of General Counsel no legal conflict exists, any Director may inspect any record of the Authority, including but not limited to the accounting books and records and minutes of the proceedings of the Board and committees of the Board, at any reasonable time. A designated representative of the entity may make any inspection and copying under this Section and the right of inspection includes the right to copy.
- 8.5 INSPECTION BY THE PUBLIC. As directed and permitted by law, Authority records are open to inspection by the public.
- 8.6 **WEBSITE POLICY.** The Authority shall establish a public website where all pertinent documentation, not specifically protected by law, may be openly inspected by the public. Documents shall generally include, but are not limited to: all agendas, minutes, resolutions, and ordinances of the Board and its standing committees; all public written briefings, presentations, and correspondence of the Board and its standing committees; and all public financial and technical reports that are not protected by law.

ARTICLE 9. CODE OF ETHICS

- 9.1 DECLARATION OF POLICY. The proper operation of democratic government requires that public officials and employees be independent, impartial, and responsible to the people; that government decisions and policy be made in the proper channels of the governmental structure; that public office not be used for personal gain; and the public have confidence in the integrity of its government. In recognition of these goals, there is hereby established a Code of Ethics for all officers and employees, whether elected or appointed, paid or unpaid. This Article establishes ethical standards of conduct for Authority officers and employees by setting forth those acts or actions that are incompatible with the best interests of the Authority and by directing the officers' disclosure of private financial or other interests in matters affecting the Authority.
- 9.2 RESPONSIBILITIES OF PUBLIC OFFICE. Public officials and employees are agents of public purpose and hold office for the benefit of the public. They are bound to uphold the United States and State Constitution and to carry out impartially the laws of the nation, State, and the Authority, thus to foster respect for all governments. They are bound to observe, in their official acts, the highest standards of performance and to discharge faithfully the duties of their office, regardless of personal considerations. Recognizing that the public interests must be their primary concern, their conduct in both their official and private affairs should be above reproach.

- 9.3 DEDICATED SERVICE. Officers and employees owe a duty of loyalty to the political objectives expressed by the electorate and the programs developed by the Board to attain those objectives. Appointive officers and employees should adhere to the rules of work and performance established as the standards for their positions by the appropriate authority. Officers and employees should not exceed their authority or breach the law, or ask others to do so, and owe a duty to cooperate fully with other public officers and employees unless prohibited from so doing by law or by the officially recognized confidentiality of their work.
- 9.4 FAIR AND EQUAL TREATMENT. The canvassing of members of the Board, directly or indirectly, to obtain preferential consideration in connection with any appointment to the municipal service, shall disqualify the candidate for appointment except with reference to positions filled by appointment by the Board. Officers and employees shall not request or permit the use of Authority-owned vehicles, equipment, materials, or property for personal convenience or profit, except when such services are available to the public generally or are provided for the use of such officer or employee in the conduct of official business. Officers and employees shall not grant special consideration, treatment, or advantage to a member of the public beyond what is available to every other member of the public.
- 9.5 POLITICAL ACTIVITIES. Officers and employees shall not solicit or participate in soliciting an assessment; subscription of contribution to a political party during working hours on property owned by the Authority and shall conform to Government Code Sections 3202 and 3203. Officers and employees shall not promise appointment to a position with the Authority.
- 9.6 EX PARTE COMMUNICATIONS. A written communication received by an officer or employee shall be made part of the record of decision. A communication concerning only the status of a pending matter shall not be regarded as an ex parte communication.
- 9.7 AVOIDANCE OF IMPRESSIONS OF CORRUPTIBILITY. Officers and employees shall conduct their official and private affairs so as not to give a reasonable basis for the impression that they can be improperly influenced in performance of public duties. Officers and employees should maintain public confidence in their performance of the public trust in the Authority. They should not be a source of embarrassment to the Authority and should avoid even the appearance of conflict between their public duties and private interests.
- 9.8 NO DISCRIMINATION IN APPOINTMENTS. No person shall be appointed to, removed from, or in any way favored or discriminated against with respect to any appointive administrative office because of such person's race, color, age, religion, gender identification, national origin, political opinions, affiliations, or functional limitation as defined by applicable State or Federal laws, if otherwise qualified for the position or office. This provision shall not be construed to impair administrative discretion in determining the requirements of a position or in a job assignment of a person holding such a position, subject to review by the Board.

- 9.9 **AUTHORITY ALLEGIANCE AND PROPER CONDUCT.** Officers and employees shall not engage in or accept any private employment, or render services for private interest, when such employment or service is incompatible with proper discharge of official duties or would tend to impair independence or judgment or action in the performance of those duties. Officers and employees shall not disclose confidential information concerning the property, government, or affairs of the Authority, and shall not use confidential information for personal financial gain. Officers and employees shall not accept a gift in excess of limits established by State law. Officers and employees shall not accept any gift contingent upon a specific action by the Board. Officers and employees shall not appear on behalf of business or private interests of another before the Board where such appearance would create a potential of having to abstain from Officers participating on that matter or be incompatible with official duties. Officers and employees shall not represent a private interest of another person or entity in any action or proceeding against the interest of the Authority in any litigation to which the Authority is a party. A Director may appear before the Authority on behalf of constituents in the course of duties as a representative of the electorate or in the performance of public or civic obligations.
- 9.10 **PENALTIES.** In addition to any other penalties or remedies provided by law, violation of this Article shall constitute a cause for suspension, removal from office or employment, or other disciplinary action after notice and hearing conducted by the appropriate appointed authority or, in the case of the Board, a majority of such Board.

ARTICLE 10. CLAIMS AGAINST THE AUTHORITY

- 10.1 [RESERVED]

ARTICLE 11. PURCHASING POLICY

- 11.1 [RESERVED]

ARTICLE 12. INVESTMENT POLICY

- 12.1 [RESERVED]

ARTICLE 13. CONFLICT OF INTEREST CODE

- 13.1 **ADOPTION OF CONFLICT OF INTEREST CODE.** The terms of 2 Cal. Code of Regs. Section 18730 and any amendments to it duly adopted by the Fair Political Practices Commission are hereby incorporated by reference and, along with this Article 13, constitute the conflict of interest code of the Indian Wells Valley Groundwater Authority.
- 13.2 **DESIGNATED EMPLOYEES.** Designated employees and consultants shall file their statements with the Indian Wells Valley Groundwater Authority, which will make the

statements available for public inspection and reproduction. (Govt. Code § 81008.)
Statements for all designated employees will be retained by the agency.

13.2.1	<u>JOB TITLE</u>	<u>DISCLOSURE CATEGORY</u>
	General Counsel	1
	Volunteers	
	Consultants	

Volunteers and Consultants shall be included in the list of designated employees and shall disclose pursuant to the broadest disclosure category in the code subject to the following limitations: The Board of Directors may determine in writing that a particular volunteer or consultant, although a “designated position,” is hired to perform a range of duties that is limited in scope and thus is not required to comply fully with the disclosure requirements described in this section. Such determination shall include a description of the duties and, based upon that description, a statement of the extent of disclosure requirements. The Board’s determination is a public record and shall be retained for public inspection in the same manner and location as this conflict of interest code.

13.2.2 An individual holding one of the above listed positions may contact the Fair Political Practices Commission for assistance or written advice regarding their filing obligations if they believe that their position has been categorized incorrectly. The Fair Political Practices Commission makes the final determination whether a position is covered by section 87200.

13.3 DISCLOSURE CATEGORIES

Category 1: FULL DISCLOSURE. A designated employee in this category is treated as a mandatory/statutory filer and thus must report all reportable interests in real property within the Authority’s jurisdiction, as well as reportable investments, business positions and sources of income, including gifts, loans and travel payments. For the purposes of these provisions, the term jurisdiction includes: those lands within the Indian Wells Valley Groundwater Basin (Basin); those lands that rely on water from the Basin; those lands that are within two miles of the Basin; and, those lands that are within two miles of land that rely on water from the Basin.

Category 2: Full Disclosure (excluding interest in real property). A designated employee in this category must report all reportable investments, business positions and sources of income, including gifts, loans and travel payments.

Category 3: Interests in Real Property. A designated employee in this category must report all reportable interests in real property with the Authority’s jurisdiction,

Category 4: General Contracting For Entire Authority. A designated employee in this category must report all reportable investments, business positions and income, including gifts, loans and travel payments, from sources that provide leased facilities, goods, equipment, vehicles, machinery or services, including training or consulting services, of the type utilized by the Authority.

Category 5: General Contracting For Specific Department. All investments, business positions and income, including gifts, loans and travel payments, from sources that provide leased facilities, goods, equipment, vehicles, machinery or services, including training or consulting services, of the type utilized by the employee's department or area of authority.

Article 13 Adopted by Resolution 03-17 on July 20, 2017

ARTICLE 14. AMENDMENT

- 14.1 AMENDMENT. These Bylaws may be amended from time to time by resolution of the Board.

ARTICLE 15. DEFINITIONS AND CONSTRUCTION

- 15.1 DEFINITIONS AND CONSTRUCTION. Unless specifically defined in these Bylaws, all defined terms shall have the same meaning ascribed to them in the Agreement. If any term of these Bylaws conflicts with any term of the Agreement, the Agreement's terms shall prevail, and these Bylaws shall be amended to eliminate such conflict of terms. Unless the context or reference to the Agreement requires otherwise, the general provisions, rules of construction, and definitions in the California Civil Code will govern the interpretation of these Bylaws.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

ATTACHMENT 3-2
PAC PRESENTATION (AUGUST 3, 2017)

#4

3 August, 2017

To:

Indian Wells Valley Groundwater Authority
Policy Advisory Committee (PAC)

From:

West E. Katzenstein
C. Lyle Fisher
Domestic Well Owners (DWO) Representatives on PAC

Subject:

DOMESTIC WELL OWNERS OBJECTIVES AND RECOMMENDATIONS

Fellow members of the PAC:

As representatives of the IWV domestic well owners (DWO), we would like to share high-level objectives and requirements of domestic well owners regarding management of groundwater in the Indian Wells Valley Basin. Additionally, we offer our recommendations on agenda items and on other topics of recent interest in the proceedings of the PAC.

1. **Domestic Well Owners Objectives**

Groundwater levels continue to drop in Basin wells including domestic wells, and this decline in water levels has accelerated greatly in areas where pumping has increased. Groundwater is the distribution system for domestic wells. This groundwater distribution system services major areas of the IWV groundwater Basin where no other distribution system exists. It would be a major expense to the GSA to replace the natural groundwater distribution system with man-made infrastructure, in the event that the GSA fails to manage groundwater levels and quality to protect domestic wells.

A description of the DWO objectives is contained in the attached document, titled: *'IWV Domestic Well Owners Association Position Summary'*.

The DWO representatives recommend the following URGENT near-term goals:

- Stabilize groundwater levels and quality in areas used for domestic wells, at levels that protect domestic wells.
- Restore groundwater in areas used for domestic wells to levels that existed in 2015, to rectify the low margin that many domestic wells now experience.
- Begin the task to obtain imported water, even before the GSP is completed.
- Begin the task to define and design the infrastructure for storage and distribution of imported water, even before the GSP is completed.

2. Summary of Groundwater Balance in the Indian Wells Valley

The attached document, '*DWO POINT PAPER #11 – IWV Water Budget Deficit*', summarizes the groundwater situation in the IWV. This document, originally presented by Gus Yates of Todd Engineers on February 12, 2014 at the Inyokern Senior Center, shows the importance of importing water to the future of the IWV. It also shows that wastewater treatment could only be a small contribution to the solution of the IWV water supply shortfall.

Although it has been talked about for years, it is important to realize that the brackish water "reserves" in the vicinity of the China Lake Playa and under Brown Rd to the West are not new water sources. These components of the Basin aquifer are hydraulically connected to the higher quality water we are already utilizing. This water is already accounted for in our water balance. The utilization of treated brackish water is not a useful component of a long-term sustainability plan.

3. Questions to be Addressed by the PAC.

Documents provided by the DWR provide specific guidance for the preparation of the Groundwater Sustainability Plan (GSP). These documents include:

- 'Guidance Document for the Sustainable Management of Groundwater - Groundwater Sustainability Plan (GSP) Annotated Outline'
- 'Guidance Document for the Sustainable Management of Groundwater - Preparation Checklist for GSP Submittal'
- 'Sustainable Groundwater Management Program - Groundwater Sustainability Plan (GSP) Emergency Regulations Guide'
- California Code of Regulations; Title 23. Waters; Division 2. Department of Water Resources; Chapter 1.5. Groundwater Management; Subchapter 2. Groundwater Sustainability Plans

Much of the technical foundation required in the GSP has already been developed. However, the 'Sustainable Management Criteria' required in sub-article 3 of article 5 of the California Code of Regulations have yet to be developed, and will be critical drivers for the GSP. **The regulations mandate that the 'Sustainable Management Criteria' include:**

- Sustainability goals (indicators)
- Criteria to define undesirable results for each sustainability indicator
- Minimum thresholds for each sustainability indicator
- Measurable objectives for each sustainability indicator
 - Milestones at 5, 10, 15, and 20 years

In order to satisfy the 'Sustainable Management Criteria' listed above, **the GSA will need to provide definitive guidance for the following key parameters of the GSP:**

- Schedule to stabilize groundwater levels
- Minimum thresholds for groundwater levels
- Schedule to provide imported and/or reclaimed water
- Schedule to restore groundwater levels to 2015 levels

- Minimum thresholds for groundwater quality
- Pumping allotments to stabilize wells
- Pumping allotments to restore groundwater levels
- Milestones to evaluate progress and update allotments
- Infrastructure goals for storage and distribution of imported and/or reclaimed water

The PAC should provide alternatives and tradeoffs to the GSA for the above parameters. The final decisions on these parameters must come from the GSA.

The DWO representatives of the PAC recommend that the key parameters listed above be addressed by the proceedings of the PAC. Note that these parameters are closely related to the agenda items proposed by Mr. Panzer.

4. **'PAC SGMA Funding Working Group'**

The concept of a 'PAC SGMA Funding Working Group' was proposed by Mr. Imsand at the PAC meeting of 20 June, 2017. The Domestic Well Owner (DWO) representatives concur that such a working group is urgently needed. However, we do not agree with the proposed PAC membership of this working group. The proposed membership has no DWO representation. All constituents groups should be represented equally. We request that at least one DWO representative be appointed to any working group that is established to address the details of the grant proposals, and that all PAC constituents be represented equally.

IWV Domestic Well Owners Association Position Summary

Preamble

The IWV Domestic Well Owners Association (DWOA) Representatives have read and carefully studied the Todd Report and many of the existing published technical reports concerning the groundwater overdraft in the Indian Wells Valley groundwater Basin 6-54. **1)** We find the Todd Report to be an accurate summary of the conditions of the critical groundwater overdraft that exists in this Valley. Since we have no other existing source of supply this shortfall is unsustainable. **2)** We further find that the recommendations made in this report provide valuable guidance for the resolution of this economic disaster that is unfolding. **3)** We specifically find the Todd conclusion that imported water will be required to maintain existing water uses is accurate. **4)** We request the County of Kern provide technical and legal support to the citizens of the IWV to put in place the State mandated Groundwater Sustainability Agency (GSA) as soon as possible. **5)** The Agency, in turn, will develop a timely, effective and equitable plan and organization to ensure a future water supply for the IWV. **6)** The Todd Report recommendations should be closely followed in most aspects. *We cannot afford to wait any longer.*

Objectives

- 1) Ensure the citizens of the IWV with a sustainable water supply and economy.**
- 2) Manage the water supply in the IWV so that all Basin wells, including domestic wells, remain viable both in quantity and quality**
- 3) In the event that vulnerable shallower domestic wells do fail due to overdraft or water quality deterioration, the necessary infrastructure to supply water to those citizens shall be put in place and the costs borne by all water users in the IWV.**

To wit, the positions:

- 1) Given the Basin critical overdraft and the rapidly deteriorating condition brought about by new groundwater production demands, a moratorium on new well permits in the IWV basin should be executed by the County immediately. This moratorium would exclude repair or redrilling of existing wells that have failed. This moratorium would continue until the overdraft has been stabilized.*
- 2) The IWV Groundwater Sustainability Agency (GSA) must be formed immediately and must provide equitable representation for all water users. The County would provide staff services initially.*
- 3) When the moratorium is lifted, a water supply assessment will be required for all proposed new wells excluding *de minimis* users.*
- 4) The GSA Board would function as a body independent from any and all existing IWV or County organizations. Citizen advisory committees would include representatives from the mutual water companies, domestic well owners, ag interests, SVM, the Navy, and public water purveyors.*
- 5) A realistic schedule will be developed, maintained, and faithfully followed. All milestones in this Plan would be set using objective criteria coming from best available science. An accurate Basin groundwater model based on the USGS Modflow will provide essential guidance.*
- 6) It would be the specific responsibility of this Agency to manage and regulate the future groundwater supply and in so doing stabilize the existing declining water levels and quality in accord with a publicly developed, State approved Plan. This plan will confirm that the highest priority use of basin groundwater is for health and safety of all residents.*
- 7) The GSA would also specifically be charged with the responsibility and authority to negotiate, and bring imported water into the basin for direct use, recharge or storage. This effort would be directly incorporated into the Plan. This is an urgent need coming from the observed severe Basin overdraft.*
- 8) All IWV water users would benefit by the additional water made available and costs would be shared equitably across all users.*
- 9) Establish minimum thresholds for groundwater status and a hard schedule for imported water delivery. A violation shall lead to restrictions on pumping, such that total pumping equals recharge.*
- 10) The positions offered here are essential to the future well being to all IWV citizens- not just domestic well owners. The urgency of the associated management activities cannot be over emphasized.*

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

ATTACHMENT 3-3
NEWS ARTICLES (COMMUNICATION WITH WELL OWNERS)

The Daily Independent

Groundwater Cooperative discusses GSA workshop, LA aqueduct runoff

By Michael Smit

Staff Writer

Posted Apr 21, 2017 at 10:40 AM

The IWV Cooperative Groundwater Management Group met for their monthly meeting on Thursday afternoon to discuss a number of topics on the state of water management in the local area. Among topics brought up throughout the meeting were the upcoming GSA workshop and the water which continues to run through IWV from the LA aqueduct.

The IWVCGMG website states that the group is a “public water data-sharing group consisting of major water producers, other government agencies, and concerned citizens of the Valley.” They meet monthly to hear updates on local water projects from field experts, and invite outside speaker to give presentations which may be relevant to local water users.

GSA Workshop

One item on this month’s agenda was to hear updates on the Sustainable Groundwater Management Act of 2014, which requires regulation to sustain California’s groundwater and promotes the formation of local agencies to self-regulate.

Predictably, SGMA has become a big deal throughout IWV, an especially dry segment of the Mojave Desert. The IWV Groundwater Authority came together to form the area’s Groundwater Sustainability Agency, which will regulate the IWV groundwater basin.

SGMA set deadlines to ensure that basins are being effectively regulated. The first deadline set was for all high and medium priority basins in critical overdraft to form GSAs by June 30 of this year, which the local GSA managed to do. The next deadline is to form a Groundwater Sustainability Plan by early 2020. That’s

where it gets tricky.

To help meet the GSP deadline, IWVGA hopes to form a Technical Advisory Committee and a Policy Advisory Committee. There seems to be unanimous agreement that these committees are needed, but it's proven difficult to find consensus when nailing down the structure of the committees into clear language in the IWVGA bylaws.

IWVGA decided to hold a public workshop just to hear out opinions on the committee structure and finish the bylaws, allowing them to move forward with creating a plan for sustainable water. This public workshop will be on Wednesday, April 26 at 5:30 p.m. at the Springhill Suite Hotel. It is open to the public and any parties interested in water are encouraged to attend the workshop to voice their opinion, or simply attend and learn about the local water situation.

"This is important," IWV Water District board member Chuck Griffin said at the IWVCGMG meeting on Thursday. "We need to make sure we get as much public engagement as we can."

While still on the topic of the IWVGA, IWVWD general manager Don Zdeba noted that even though the bylaws for the committees are not finalized yet, IWVGA is taking applications for both the TAC and the PAC committees. Those interested in applying can go to www.co.kern.ca.us/WaterResources.aspx to find the application.

LA Aqueduct Runoff

Toward the end of the meeting, after discussing issues with local water conservation efforts for over an hour, members of the public brought up the water flowing through IWV from the LA Aqueduct.

Los Angeles Department of Water and Power has been releasing water from the aqueduct after a wet winter left an overflow of water in its system. While this may seem like a blessing, local water experts say that it's unlikely much of this water will seep down into the local groundwater basin before evaporating and local agencies don't have the infrastructure needed to make use of this water.

Pat Farris, speaking during public comment, questioned if it would be possible to drill holes to allow the water to seep into the basin, but Zdeba noted that they

wouldn't want that because this is untreated water flowing from the aqueduct.

Judy Decker, also speaking during public comment, added to Zdeba's comment. She stated that this water flowing from the mountains and through the aqueduct is full of much more than water. Soil, sediment, and all sorts of contaminants are still in it.

In order to make use of the water, local agencies had previously thrown around the idea of digging small makeshift reservoir to collect the water, but doubted even if that would be of any use.

Farris recommended that local water authorities continue looking into ways to make use of this water source flowing right through IWV, and a sentiment with which everyone on the IWVCGMG seemed to agree with.

Until then, IWV water agencies continue with conservation efforts to sustain IWV's limited water supply underground while the local geology doesn't allow it to make use of the water flowing freely right on its surface.



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The Daily Independent

IWVGA committee seeks new members and begins hunt for funding

By Michael Smit

Staff Writer

Posted Jul 26, 2017 at 9:37 AM

The Indian Wells Valley Groundwater Authority's Policy Advisory Committee held its second meeting on July 20. They approved action to seek two new members to represent disadvantaged communities and action to begin compiling lists of possible funding sources for IWVGA.

IWVGA is a new government agency which is responsible for creating and enforcing a sustainability plan for the IWV groundwater basin, per California state's Sustainable Groundwater Management Act of 2014. This is a tall order for a desert area like the IWV which relies entirely on its groundwater basin to survive. To help with this task, the IWVGA created the PAC to suggest policy for the IWVGA board of directors to vote on.

The IWV has little surface water and exceptionally low annual rainfall. Those who reside in the IWV typically rely entirely on the IWV groundwater basin for survival. However, modern studies state that the agriculture, municipalities, and various industries in IWV are pumping water out of the basin around three to five times faster than the basin's natural recharge rate, leading to a continuous drop in its water level by 0.5 to 1.5 feet every year. This is the issue the IWVGA is tasked with fixing; it must create a plan to find water sustainability.

The PAC held its first meeting on June 29, and spent much of the time trying to figure out its own structure and purpose. Many of the PAC members do not have significant public service experience, so they also needed to learn the means they had to achieve that purpose. IWVGA structured the PAC in a way intended to increase community participation, with each member of the PAC representing a major component of the IWV community.

Thus far, the committee has 11 members. The members are board chair Donna

Thomas from Eastern Kern County Resource Conservation District, board vice chair Steve Godard from wholesaler and industrial users, Rodney Stiefvater from large agriculture, Edward Imsand from large agriculture, Patricia Quist from small agriculture, Scott O'Neil from business interests, Carol Wilson from business interests, West Katzenstein from domestic well owners, Lyle Fisher from domestic well owners, Nick Panzer from residential customers of a public water agency, and Renee Westa-Lusk from residential customers of a public water agency.

The PAC also contains three non-voting members: Don Zdeba from IWV Water District, Brian Longbottom from the Department of the Navy, and Ryan Klaush from Bureau of Land Management.

Kern County planning and natural resources director Lorelei Oviatt also attended the July 20 PAC meeting as recording clerk, though she was also able to offer ample procedure advice with her public service experience.

The first major action item the PAC tackled at the meeting was to decide who will represent local disadvantaged communities. On top of believing that it's important to allow these communities a fair voice in the water conservation conversation, PAC members believe that designating members as representatives of disadvantaged communities may increase their chances of helping IWVGA achieve state funded grants.

SGMA requires communities to form Groundwater Sustainability Agencies to regulate their groundwater basins, but California voters also approved Proposition 1, which provides state funds to help these GSAs. Prop 1 has two categories of funding eligibility, with Category 1 holding \$10 million in reserve for GSAs serving severely disadvantaged communities.

At the June 29 PAC meeting, the PAC voted Donna Thomas and EKCRCDD as the disadvantaged community representative, however Thomas stated that she would first have to take it to her board of directors. When she did so, the EKCRCDD board believed that the Inyokern Community Services District would better represent disadvantaged communities. The idea is that rather than Thomas representing EKCRCDD and the disadvantaged communities of IWV, ICSD would appoint their own member to solely represent disadvantaged communities.

In a memo from EKCRCD to the ICSD, the EKCRCD board says, “We believe it is important that groups such as the ICSD that meet the criteria as Disadvantaged Communities participate as stakeholders in the PAC.”

As the PAC began to gain approval for adding ICSD as a voting member of the PAC, Oviatt reminded PAC members that the PAC was originally drafted with 11 members in order to keep an odd number as a way to break tied votes. Adding ICSD would bring their total to 12.

With this in mind, they began to form a new plan, request that the IWVGA board appoint a representative from ICSD to the PAC as a voting member, and then at a future date potentially include a voting representative from Trona to also represent IWV disadvantaged communities after receiving more information from Trona and Searles Valley Minerals. The motion passed unanimously, with PAC members Godard and Katzenstein absent from the meeting and Westa-Lusk not yet appointed to the PAC at the time of the meeting.

Following this decision, the PAC discussed other ways they could help IWVGA secure grant funding. At the June 29 PAC meeting, PAC member Imsand stated that Meadowbrooks would be willing to offer the services of Eddy Teasdale and Kennedy/Jenks Consultants to help the PAC explore potential grant funding for IWVGA.

At the July 20 meeting, PAC chair Thomas asked Imsand if that offer still stands. Imsand said that it does, and it’s an offer that comes free of charge. He also clarified that while they may find other grant opportunities, it’s primarily focused on Prop 1 funding.

Teasdale told the PAC that they’ve already been working on researching Prop 1 grant funding, so it would be no problem to offer the information and further help to the PAC.

Thomas stated that she would just like for the PAC to be able to review the data. She said EKCRCD has also been looking at grant opportunities. She gave the example of grants for rehabilitation of household wells.

Of the PAC members in attendance, the motion to accept Imsand’s offer passed

with 8 votes, with Panzer abstaining from the vote.



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Groundwater Authority's Technical Advisory Committee prioritizes studies to import water to IWV

By Michael Smit
Staff Writer

Posted Aug 4, 2017 at 10:09 AM

In its first meeting, the Indian Wells Valley Groundwater Authority's (IWVGA) Technical Advisory Committee (TAC) spent most of the meeting discussing which technical projects ought to be at the top of their priorities as IWVGA moves forward with its goal of bringing sustainability to the IWV groundwater basin, which currently has a water level that's dropping at 0.5 to 1.5 feet per year.

Their consensus: the top priority needs to be a study on the feasibility of importing water to the IWV. They are not yet sure where to import water from, what the system will look like, or how much it will cost. But TAC member consensus was that importing water, so far, appears to be the best option for bringing the IWV to groundwater sustainability.

"I put water importation as the number one priority," said TAC member Don Decker. He explained that current studies such as the Todd Report state that water is pumped out of the IWV groundwater basin at a rate of three to five times faster than the basin's natural recharge rate, leading to its water level decline. Decker said that no amount of conservation is likely to close this gap, which is why he prioritizes importing water.

The TAC came out of the meeting with general consensus on a list of four priorities. In order, they are studying water importation feasibility, forming a data management system to easily keep track of the technical data they collect, updating the current model of the IWV groundwater basin, and finding any gaps they have in their collection of data.

Once the priority list was finished, TAC member Adam Bingham spoke on the process of the TAC during its first meeting. "Maybe it's just my impression of what I think is going on, but it feels like a bunch of [Policy Advisory Committee] things going on here. We have another PAC group that will deal with those things. We are the technical side," he said.

He explained that he hoped after initial discussions, he hopes the TAC will move into more technical discussions. His sentiment echoed statements made by several members of the public who stated they expected to see the TAC discussing scientific data and technical aspects to help the IWVGA create its Groundwater Sustainability Plan (GSP) for IWV groundwater. However, the TAC spent their first meeting discussing grant funding and community outreach, which some felt would be more appropriate for IWVGA's PAC.

The IWVGA board of directors had initially tasked its PAC members to begin the process on working towards grant funding. State grants could award IWVGA over a million dollars in order to fund the necessary studies and projects to achieve groundwater sustainability for IWV residents.

The PAC began discussions on grant funding in their first meeting in July, but quickly realized that technical expertise would be helpful. So at the IWVGA July 20 board meeting, the board of directors requested the TAC look into grant funding. Its reasoning was that the state grants look to be awarded based on necessary projects, and those projects have a technical foundation.

With that task at the top of their list, TAC members spent most of their first meeting discussing policy about which projects and which studies should take priority. Once that's decided, then they can hopefully move progress forward in future meetings, using the technical expertise of their members in order to supply IWVGA and its members with the technical data necessary to draft solid policy that will bring the IWV groundwater basin.

Additionally, meeting facilitator Don Zdeba, IWV Water District general manager, stated that it was expected that IWVGA's Water Resources Manager (WRM) would be hired by the time the TAC met, but he wasn't. Once the WRM is hired, that person will facilitate the meetings instead of Zdeba.

The IWVGA is a brand new type of government agency in the valley. It's a Groundwater Sustainability Agency (GSA), brought about by California's passage of the Sustainable Groundwater Management Act of 2014. GSAs began forming for groundwater basins around the state, with many of these GSAs taking very different structures and practices as they attempted to learn to walk.

The IWV's GSA, the IWVGA, created the advisory committees to help it along its process of forming a GSP for the IWV groundwater basin, but each group has struggled to find its feet due to the unprecedented novelty of the undertaking. However, the WRM may be the key to getting the groups together into a solid running stride, as the WRM is expected to help information flow more easily between IWVGA board, PAC, and TAC.

At the upcoming Aug. 17 IWVGA board meeting, its possible the board may officially hire a WRM. It's also expected that the board will appoint more members to the TAC.

The TAC currently consists of nine members: Eddie Teasedale from large agriculture, Wade Major from large agriculture, Michael Powell from residential customer of a public water agency, Don Decker from domestic well owners, Earl Wilson from Eastern Kern County Resource Conservation District, and Adam Bingham from wholesaler and industrial users. The TAC also contains the non-voting members of Renee Morquecho from IWV Water District and Stephan Bork from the Department of the Navy.



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“ATTACHMENT TAB”

ATTACHMENT 4
WORK PLAN

1.0 INTRODUCTION

The Indian Wells Valley groundwater basin is located in southeastern California and underlies portions of Inyo, Kern, and San Bernardino Counties. Indian Wells Valley groundwater basin is identified by the Department of Water Resources (DWR) as Basin 6-54 in Bulletin No. 118. Indian Wells Valley groundwater basin is classified as a “medium priority” basin pursuant to the California Statewide Groundwater Elevation Monitoring (CASGEM) program. The Indian Wells Valley groundwater basin is also classified as a “critically overdrafted” basin in Bulletin No. 118 interim update (2016), prepared by the Department of Water Resources (DWR). As required by the Sustainable Groundwater Management Act (SGMA), all Bulletin No. 118 basins designated as “high” or “medium priority” and “critically overdrafted” shall be managed under a GSP by January 31, 2020, including the Indian Wells Valley groundwater basin.

In July 2016, the Indian Wells Valley Groundwater Authority (IWVGA) was formed through a Joint Exercise of Powers Agreement for the purpose of forming a Groundwater Sustainability Agency (GSA) to manage the Indian Wells Valley groundwater basin and to implement SGMA requirements, including the development of the GSP.

References to SGMA and/or GSP regulations and codes contained within this Work Plan refer to the California Code of Regulations Title 23, Division 2, Chapter 1.5, Subchapter 2: Groundwater Sustainability Plans, unless otherwise noted.

2.0 PROJECT GOALS AND OBJECTIVES

The Indian Wells Valley groundwater basin resources are currently not sustainably managed. Overdraft conditions have existed since the 1960s as a result of groundwater pumping exceeding the natural basin yield. As a result of these conditions, and with the purpose of complying with SGMA regulations and DWR standards and guidance, the following goal for the Indian Wells Valley groundwater basin GSP was set:

Goal: Develop sustainable management strategies that culminate in the absence of undesirable and unsustainable groundwater conditions within 20 years in order to provide long-term sustainable groundwater management.

In order to achieve this project goal, the following objectives were set to guide the development of the GSP:

Objective 1: Develop a comprehensive understanding and characterization of the Indian Wells Valley groundwater basin in order to develop sustainability objectives.

Objective 2: Create a robust monitoring network and platform for tracking sustainability objectives.

Objective 3: Develop and analyze potential management strategies that could be used to achieve sustainability in the basin.

Objective 4: Develop the Indian Wells Valley groundwater basin GSP

The tasks associated with meeting Objective 1 are the following:

- Developing a Hydrogeologic Conceptual Model and Groundwater Model
- Developing a Salt and Nutrient Management Plan

The tasks associated with meeting Objective 2 is the following:

- Developing a Data Management System
- Identifying and Evaluating Hydrogeologic Data Gaps
- Installing new monitoring wells
- Installing new stream gages
- Installing new weather stations
- Conducting water quality and stable isotope sampling
- Performing aquifer tests

The tasks associated with meeting Objective 3 are the following:

- Recycled Water Study
- Imported Water Study

The tasks associated with meeting Objective 4 is the following:

- Developing the Indian Wells Valley groundwater basin GSP

The specific objectives of each task required to develop the Indian Wells Valley groundwater basin GSP are discussed in Section 4.0.

3.0 STAKEHOLDER AND PUBLIC COORDINATION

SGMA regulations (GSP §354.10 and §355.4 (b) (4)) require GSAs to consider the interests of all beneficial uses and users of groundwater in the development and implementation of the GSP. Given the critical role of local agencies, agriculture, the environmental community, and private well owners, it is acknowledged that diverse and significant stakeholder and public involvement will be required for implementing the Indian Wells Valley groundwater basin GSP. To facilitate stakeholder involvement and advisement, the IWVGA has established two standing committees: the Policy Advisory Committee (PAC) and the Technical Advisory Committee (TAC). Both of these committees represent the following constituent groups:

- Large agricultural
- Small agriculture
- Business interests
- Residential customers of Public Water Agency
- Domestic well owners
- Eastern Kern County Resource Conservation District
- Wholesaler and Industrial User
- Inyokern Community Services District
- Indian Wells Valley Water District
- Department of the Navy
- Bureau of Land Management
- Disadvantaged Communities (discussed more in Attachments 7, 8, and 9)

The TAC and PAC committees meet at least once per month and follow Brown Act regulations for notifying the public with meeting information. GSP development updates will be provided at TAC and PAC meetings. These updates will be noted in meeting minutes which are publicly available on the IWVGA website. Progress evaluation and updates on GSP development tasks will be provided. Draft project deliverables will be presented prior to finalization to allow for and encourage public and committee input.

The IWVGA Board, TAC, and PAC meetings are regularly attended by members of two Ridgecrest news organizations: the Ridgecrest Daily Independent and the Ridgecrest News Review. News articles regarding key discussions at these public meetings are regularly published and allow for dissemination of Project information to an audience that did not attend the public forums in person.

During the formation of the IWVGA, a comprehensive listing of interested parties (including name, email, and phone number) was developed. The listing includes local community residents (including Disadvantaged Communities, Severely Disadvantaged Communities, and Economically Distressed Areas), businesses, large and small-scale agriculture, academic institutions, relevant state and local agencies, federal agencies, non-profit organizations, and community organizations. This listing of over 150 stakeholders includes representatives from all types of water users within the Indian Wells Valley groundwater basin and was used during the 17-month long GSA formation process for notification of public meetings, notifications, and updates related to discussions on the SGMA. This stakeholders listing will continue to be used to disseminate information during the development of the GSP.

4.0 PROJECT TASKS AND WORK PLAN

The following tasks directly contribute to development of the Indian Wells Valley groundwater basin GSP as required by GSP regulations and serve to meet the GSP objectives discussed in Section 2.0. The tasks discussed in this workplan have been divided into subtasks, as appropriate, and correspond to the budgets and schedules provided in Attachment 5 and 6, respectively.

4.1 Task 1: Model Development

Objectives

The objective of this task is to construct a hydrogeologic conceptual model (HCM) and numerical groundwater model (model). The HCM and model will support the development of the GSP by providing tools to estimate the groundwater aquifer's hydrologic water budget (GSP §354.14), assess groundwater level and quality trends (GSP §354.16), and evaluate different strategies to provide long-term sustainable groundwater management for Indian Wells Valley groundwater basin (GSP §354.44).

Tasks

The budget for this task is approximately \$505,800. Work on this task began in October 2017 and is anticipated to be completed by March 2019.

In order to establish and develop the models for the GSP, the following subtasks will be required:

- Hydrogeologic Conceptual Model
- Numerical Groundwater Model

Task 1a: Hydrogeologic Conceptual Model

The HCM developed for Indian Wells Valley groundwater basin will describe the current understanding of the basin's physical and hydrogeologic characteristics, the elements of the water budget, and how surface water and groundwater occur and move within the watershed and regional aquifer. The design and development of the HCM for the GSP will be based upon DWR's Best Management Practice (BMP)¹ developed for SGMA. It will be developed as a tool to evaluate monitoring networks; and identify/prioritize where additional data would be beneficial. Indian Wells Valley groundwater basin's HCM will be updated or revised as new data requires. It will support the development and evaluation of a numerical groundwater model and provide a 'common sense' cross check for simulated results.

Professional hydrogeologic studies have been completed for Indian Wells Valley groundwater basin that describe the geologic structure and physical characteristics of the Indian Wells Valley watershed and groundwater basin. Some studies have estimated different components of the water budget. Available historical and current data will be compiled and validated. These reports, documents, and data will be reviewed and evaluated to develop the hydrologic budget for the initial HCM for the GSP. Water budget data will be tabulated and sourced as the HCM is developed.

A graphical figure will be constructed to show an overview of the primary hydrogeologic structures and water budget elements that form the conceptual basis of understanding for water within the basin setting. This figure will contain what is currently known of bedrock, faulting, and aquifer zonation; and include groundwater inflows, outflows, and changes in storage. Natural and anthropogenic land/water use will be depicted to show the relationships between water sources and beneficial uses within the basin. Additional figures will be created as necessary to depict water quality and land subsidence concerns

¹ DWR (<http://www.water.ca.gov/groundwater/sgm/bmps.cfm>): BMP 3 Hydrogeologic Conceptual Model.

identified in the process of developing the HCM (including areas with brackish water quality already identified in previous reports).

Task 1b: Numerical Groundwater Model

A three-dimensional numerical groundwater model will be developed that builds upon the HCM, incorporating the hydrogeologic structure and water data (water uses, recharge, pumping, evapotranspiration, etc.). It will be calibrated to historical water levels and aquifer testing data, as well as observed rates of drawdown within different sections of the Indian Wells Valley groundwater basin aquifer. The calibrated model will provide a tool for developing the GSP and evaluating future Indian Wells Valley groundwater basin management.

Review and Evaluation of Existing Groundwater Model

The Naval Air Weapons Station (NAWS) at China Lake contracted Desert Research Institute (DRI) to develop a MODFLOW model for Indian Wells Valley groundwater basin (Basin Model)². The Basin Model will be evaluated to determine its suitability for the GSP and overall sustainable groundwater management. Model documentation and MODFLOW computer files will be evaluated for the efficacy of the Basin Model to provide the management tool required by DWR. A groundwater model peer review checklist will be developed based on DWR's BMPs³. The model review will evaluate the hydrogeologic representation of the available historical data and conceptual model, model construction, boundary conditions, aquifer properties, and fluxes (recharge, pumping, etc.). Model input and output files will be assessed for consistency. Model calibration and transient model calibration will be evaluated based on historical data.

Basin Model Updates for the GSP

The recommendations established during the model review will be evaluated and incorporated into the Basin Model. Recent field work and studies have been completed since 2016. This hydrogeologic data will be evaluated and incorporated into the Basin Model (and HCM as appropriate). A sensitivity and uncertainty analysis will be performed to understand the limits of the model.

² DRI, 2016. *Groundwater Resource Sustainability: Modeling Evaluation for the NAWS, China Lake, California*.

³ DWR (<http://www.water.ca.gov/groundwater/sgm/bmps.cfm>): BMP 4 Water Budget; and BMP 5 Modeling.

The Basin Model will be used for calculating the input and output components of the water budget, and the resulting changes to groundwater in storage for the GSP. The historical data will be evaluated based on hydrologic conditions (wet, average, dry, extended dry) and trends. The Indian Wells Valley groundwater basin sustainable yield will be estimated.

Sustainable Groundwater Management Model Scenarios

A baseline model run will be developed based on the HCM and calibrated model outlined in the subtasks above. The Baseline will assess how historical conditions impacted Indian Wells Valley groundwater basin water supply reliability. The Basin Model will evaluate how groundwater responds to the changes in hydrologic conditions on seasonal, annual, and decadal timeframes. The Basin Model will be calibrated to groundwater levels, rates of drawdown, changes of groundwater in storage, and a balanced water budget. These components of the model will be the foundation to analyze the water resource management changes required to bring the basin into a sustainable balance.

The IWVGA TAC committee will develop future demand and management scenarios to be evaluated by the Basin Model. Projected changes in land use, population, and climate will be considered. Potential water sources, supply projects, and management alternatives will be evaluated. These future management scenarios will be compared to the baseline run to assess what effects the different basin management alternatives have on sustainable groundwater within the basin. Potential changes in climate will also be evaluated for the effects on sustainable water supply within the basin.

The Basin Model will be used to establish the appropriate sustainable management criteria to monitor the basin's water supply. These criteria will provide necessary input for the GSP and future basin management.

Transport Modeling to Evaluate Groundwater Quality

Transport modeling will be calibrated to establish a salinity baseline model run. Future management scenarios will be evaluated for changes in salinity within the basin; and compared with the baseline.

Modeling Sustainable Alternatives Effects on Potential Land Subsidence

A recent InSAR Study⁴ was conducted to analyze aquifer response to pumping in Indian Wells Valley groundwater basin. The results were evaluated by DRI and simulated by the groundwater model constructed for NAWS, and documented in their 2016 report⁵. Future management scenarios will also be evaluated for land subsidence and compared with the baseline to evaluate the potential for compaction and land subsidence.

Environmental Compliance

The activities involved in this task do not qualify as a “Project” as defined under the California Environmental Quality Act, Section 21065.

“Project” means an activity which may cause either a direct physical change in the environment, and which is any of the following:

- a) An activity directly undertaken by any public agency.
- b) An activity undertaken by a person which is supported, in whole or in part, through contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.
- c) An activity that involves the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

No environmental compliance documents will be required.

Project Deliverables (estimated 50% complete)

The DRI report entitled Groundwater Resource Sustainability: Modeling evaluation for the Naval Air Weapons Station, China Lake, California (2016) will be submitted to DWR. Technical memoranda will be written and presented to the IWVGA TAC committee summarizing the following:

- The HCM including hydrogeologic features of the basin, the elements of the Indian Wells Valley groundwater basin hydrologic budget, and monitoring network
- The review and evaluation of the existing numerical model.

⁴ South Dakota School of Mines and Technology, 2015. *InSAR Analysis of Aquifer-System Response to Pumping in the Indian Wells Valley, CA.*

⁵ DRI, 2016. *Groundwater Resource Sustainability: Modeling Evaluation for the NAWS, China Lake, California.*

- Model updates focused on the GSP and sustainable groundwater management, historical water level trends, and the sensitivity/uncertainty analysis.
- Sustainable groundwater management model scenarios including groundwater quality impacts and potential compaction and land subsidence.

The HCM will be used for stakeholder outreach and communication. Recommendations for updates/revisions to the Basin Model that are necessary to support the GSP and Indian Wells Valley groundwater basin sustainable groundwater management will be documented.

4.2 Task 2: Salt and Nutrient Management Plan Development

Objectives

In 2009, the State Water Resources Control Board (SWRCB) adopted the Recycled Water Policy, in response to a statewide water crisis in order to encourage and facilitate the safe and increased use of recycled water. In compliance with the Recycled Water Policy, the Indian Wells Valley Water District and the City of Ridgecrest are developing a Salt and Nutrient Management Plan (SNMP) with cooperation from local stakeholders. The goals and objectives of the SNMP include the following:

- Manage salts and nutrients to ensure water quality objectives are met and sustained
- Maintain and protect beneficial uses of the groundwater basin
- Provide a streamlined approval mechanism for recycled water projects

The development of the SNMP supports the development and implementation of the GSP by:

- Providing a framework to analyze water quality impacts of potential recycled water, imported water, and stormwater replenishment projects (GSP §354.44)
- Analyzing water quality trends to be used to develop groundwater sustainability goals and management actions in the GSP (GSP §354.44)

Tasks

The budget for this task is approximately \$80,000. Work on the SNMP began in January 2016 and is anticipated to be completed by December 2017.

In order to establish the develop the SNMP, the following subtasks will be required:

- Loading Analysis
- Mixing Model Development
- Reporting and Coordination

Task 2a: Loading Analysis

The SNMP will analyze salt and nutrient loadings of Nitrate and TDS from surface water applications including irrigation, agriculture, and residential uses based on land use classification. A mass balance tool will be developed to represent Nitrate and TDS loading on annual-average basin. Loading analysis will be determined by estimating crop demand, applied water rates, and fertilizer application rates, based on crop type and stakeholder input.

Task 2b: Mixing Model Development

A mixing model will be developed to account for base storage volumes, ambient concentrations, and volumetric rates of groundwater inflow and outflow in conjunction with source and sink concentrations to estimate future concentrations based on continued current conditions. Results from loading analysis and mixing model can be used to perform an antidegradation analysis based on available assimilative capacity of each constituent. Stakeholder engagement will be conducted to refine parameters in the loading model and confirm assumptions used in model.

Task 2c: Reporting and Coordination

A final draft document will be prepared for submittal to Lahontan Regional Water Quality Control Board.

Environmental Compliance

The activities involved in this task do not qualify as a “Project” as defined under the California Environmental Quality Act, Section 21065 because no implementation measures are proposed for development.

“Project” means an activity which may cause either a direct physical change in the environment, and which is any of the following:

- a) An activity directly undertaken by any public agency.

b) An activity undertaken by a person which is supported, in whole or in part, through contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.

c) An activity that involves the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

No environmental compliance documents will be required.

Project Deliverables (estimated 90% complete)

The task deliverable will be the Final SNMP to be submitted to the Lahontan Regional Water Quality Control Board in December 2017 and DWR.

4.3 Task 3: Data Management System

Objectives

The objectives for developing a Data Management System are to establish a comprehensive geo-referenced database that stores and reports physical and environmental datasets; and supports adaptive management techniques required to meet groundwater sustainability of the Indian Wells Valley Groundwater Basin through the GSP.

In accordance with GSP §352.4, §352.2, and §354.34, a Data Management System is required to meet the monitoring and reporting protocols for a GSP, establish a comprehensive database of physical and environmental parameters, and implement sustainability requirements established in the GSP. The Data Management System will allow users to access up-to-date basin management indicators, track sustainability, and generate reports required under the GSP.

Tasks

The budget for this task is approximately \$357,400. Work on this task began in October 2017 and is anticipated to be completed by June 2019.

In order to establish the final Data Management System (DMS) for the GSP, the following subtasks will be required:

- Develop Web-Based GeoDatabase (DMS)
- Establish Monitoring Protocols and Reporting Standards

- Populate Database with Historical Data
- Install Transducers and Telemetry Equipment
- Integrate GSP Goals and Objectives – Adaptive Management

Task 3a: Develop a Web-Based GeoDatabase (DMS)

Specific steps required to support the development of the DMS include: design, set-up, engineering, initial data population, presentations, and project management. DMS design will be developed in a collaborative effort between Stetson Engineers Inc and the IWVGA TAC committee members. The initial design of the DMS will be based on a web-based georeferenced database that allows for access to time delimited data, reports, well logs, geophysical data, and other relevant information to support the GSP.

The setup phase of the database will include the necessary web and data hosting services on a VPN server hosted by a third-party web-based server provider. Included features will be; domain name (or sub-domain), SQL database, and SSL encryption certificate, as well as software licenses. The required security access and protocol will be developed for clients' access objectives. General additional work would include configuring firewall settings, configuring compression settings, and configuring web cache settings.

Task 3b: Establish Monitoring Protocols and Reporting Standards

Monitoring protocol will be established to assure consistency between datasets and so reporting standards are met through best management practices. The monitoring protocol and reporting standards will apply to all physical and environmental datasets used to support the GSP, including monitoring wells, production wells, water quality data, streams, maps, hydrographs, and models.

DWR Standards and objectives will be the guidelines for establishing monitoring protocols and reporting standards, consistent with GSP §352 and Water Code 10733.2, for all CASGEM wells, other wells, climate, water quality, and streamflow datasets. Data and reporting standards will assure that data entered in the DMS is consistent and comparable for future management activities. The monitoring protocols and reporting standards will be documented in two reports that will be reviewed at least every five years as part of the periodic evaluation of the GSP.

Task 3c: Populate Data with Historical Data

CASGEM monitoring wells and other existing monitoring programs will be electronically populated in the geo-referenced database for use as baseline data. Well location, elevation, reference points, driller logs, geophysical logs, pumping reports, construction data, and other relevant data that describes each monitoring location will be included in the database. Additional information such as reports and memoranda will be uploaded and georeferenced.

All electronic and paper datasets will be entered electronically in the DMS after they have met the monitoring protocols established in Task 2. The data entry process will also assure that data may be used to meet the reporting standards consistent with the maintenance and management of the GSP.

Task 3d: Install Transducers and Telemetry Equipment

Water level transducers and recording dataloggers will be installed in 20 wells located throughout the Indian Wells Valley groundwater basin. The transducers will automatically record water levels and transmit the data to dataloggers for upload to the DMS through satellite and radio telemetry equipment. The data will then be available in real-time or near-real time for display on the web-based georeferenced DMS user interface. This task includes the installation of 20 water level transducers, 20 slave radio transmitters, and 5 satellite/radio base stations located throughout the Indian Wells Valley groundwater basin.

Task 3e: Integrate GSP Goals and Objectives – Adaptive Management

The DMS will be used to display the goals and objectives of the GSP that will include Sustainability Indicators, Minimum Thresholds, Measurable Objectives, Interim Milestones, and Baseline Conditions for use in adaptive management. This task will program these goals and objectives electronically on the DMS so they may be tracked by management personnel.

Environmental Compliance

The activities involved in this task do not qualify as a “Project” as defined under the California Environmental Quality Act, Section 21065.

“Project” means an activity which may cause either a direct physical change in the environment, and which is any of the following:

- a) An activity directly undertaken by any public agency.

- b) An activity undertaken by a person which is supported, in whole or in part, through contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.
- c) An activity that involves the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

No environmental compliance documents will be required.

Project Deliverables (estimated 10% complete)

The deliverable of this task will be a web-based geodatabase (DMS) that contains historical and current water level, water quality, climatic, and other physical and environmental datasets used to manage the long-term sustainability of the Indian Wells Valley Groundwater Basin. Additionally, a written report will be prepared documenting the DMS.

4.4 Task 4: Identify and Evaluate Hydrogeologic Data Gaps

Objectives

The objective of this task is to identify, evaluate, and prioritize hydrogeologic data gaps in the current monitoring network to help refine the existing Indian Wells Valley groundwater basin monitoring network (GSP §354.34), validate the HCM (GSP §354.14) and update the numerical groundwater model (GSP §354.16). This project builds upon, and integrates with, previous basin characterization studies conducted for the Indian Wells Valley groundwater basin⁶.

Tasks

The budget for this task is approximately \$66,700. Work on this task is anticipated to begin in January 2018 and is anticipated to be completed by April 2018.

In order to establish the identify and evaluate hydrogeologic data gaps, the following subtasks will be required:

- Review Existing Model and Monitoring Network
- Identification and Prioritization of Data Gaps

⁶ U.S. Bureau of Reclamation, 1993; Tetra Tech EM, Inc., 2003a and 2003b; IWVCGW-TAC and GTC, 2008.

Task 4a: Review Existing Model and Monitoring Network

The HCM, Basin Model, and existing monitoring network will be evaluated for data gaps based upon DWR's BMP developed for SGMA⁷. Data evaluation for the HCM and model will address uncertainties regarding the different components of the hydrologic budget, aquifer extents, and uncertainties in the occurrence and movement of groundwater throughout the basin. Indian Wells Valley groundwater basin's monitoring network will be evaluated for gaps in spatial, temporal, and qualitative extents of data collection and analysis. A good understanding of the HCM balanced with a comprehensive monitoring network provides the foundation for assessing groundwater in storage and evaluating basin management goals for the GSP. Data gaps are defined in GSP § 351 Definitions of the CCR for GSP:

(l) "Data gap" refers to a lack of information that significantly affects the understanding of the basin setting or evaluation of the efficacy of Plan implementation, and could limit the ability to assess whether a basin is being sustainably managed.

The existing monitoring network and existing datasets will be reviewed based on the GSP §354.38 *Assessment and Improvement of Monitoring Network*. Under this task, the existing network will be evaluated for sufficient number of monitoring sites and frequency of monitoring for development of the GSP.

Task 4b: Identification and Prioritization of Data Gaps

Data gaps will be identified and prioritized in the current understanding of the basin setting (GSP §354.12) and HCM. This evaluation includes, but is not limited to, understanding source water recharge from the mountain-front for the water budget, complex hydrogeologic definition of the aquifer for calculating groundwater in storage, and aquifer property characterization for better model calibration.

Data gaps will be identified for the components of the hydrologic budget (GSP §354.18) simulated by the model. This data evaluation includes the quantification of mountainfront recharge, groundwater production data, evapotranspiration estimates, spring/creek flow, stormwater runoff, wastewater discharges, and other natural and anthropogenic components of the water budget.

⁷ DWR (<http://www.water.ca.gov/groundwater/sgm/bmps.cfm>): BMP 2 Monitoring Networks and Identification of Data Gaps.

Data gaps will be tabulated and prioritized based on the BMP guidelines⁸. A plan will be developed to fill the data needs.

Environmental Compliance

The activities involved in this task do not qualify as a “Project” as defined under the California Environmental Quality Act, Section 21065.

“Project” means an activity which may cause either a direct physical change in the environment, and which is any of the following:

- a) An activity directly undertaken by any public agency.
- b) An activity undertaken by a person which is supported, in whole or in part, through contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.
- c) An activity that involves the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

No environmental compliance documents will be required.

Project Deliverables (estimated 15% complete)

A technical memorandum will be prepared summarizing the data gaps. Prioritized data gaps in the basin setting and monitoring network and a plan to fill data gaps will be provided in the GSP.

4.5 Task 5: Monitoring Wells

Objectives

Building upon previous basin characterization studies⁹ and preliminary data gap evaluations, it has been determined that new monitoring wells will be required. The objective of the new monitoring wells will be to fill in lithologic, groundwater level, and groundwater quality data gaps. The construction of new monitoring wells support the development of the GSP because the data collected and analyzed will be

⁸ DWR (<http://www.water.ca.gov/groundwater/sgm/bmps.cfm>): BMP 2 Monitoring Networks and Identification of Data Gaps.

⁹ U.S. Bureau of Reclamation, 1993; Tetra Tech EM, Inc., 2003a and 2003b; IWVCGW-TAC and GTC, 2008.

used to refine the existing Indian Wells Valley groundwater basin monitoring network (GSP §354.34), validate the HCM (GSP §354.14) and update the numerical groundwater model (GSP §354.16).

Tasks

The budget for this task is approximately \$605,000. Work on this task is anticipated to begin in January 2018 and is anticipated to be completed by July 2019.

In order to establish the install the monitoring wells, the following subtasks will be required:

- Design and Location Siting
- Work Plan and Well Construction
- Collection of Monitoring Well Data

Task 5a: Design and Location Siting

Four new monitoring wells will be constructed. Well locations, design, and depths will be identified under Task 4 during the prioritized data gap evaluation. The new monitoring wells will be drilled, tested, constructed, developed, and sampled following local, state, and federal regulations. These regulations include, but are not limited to, California Well Standards (DWR Bulletins 74-81 and 74-90), Kern County Environmental Health Services (Water Well Permits Policy), and NEPA compliance for biological and cultural surveys (where appropriate for construction on federal property).

Drilling methods, geophysical logging, well construction, development, and testing at each monitoring well location will be coordinated with the US Navy. This grant funding would provide for the material costs and testing of four monitoring wells. The labor would be provided by the US Navy (Navy Seabees Water Well Drilling Crews) as in-kind services.

Task 5b: Work Plan and Well Construction

A well drilling and construction work plan with specification will be developed. Monitoring wells will be drilled using direct mud rotary methods. A US Navy field geologist will manage the drill site, ensure best drilling practices and describe aquifer sediments encountered during drilling. Downhole geophysical testing will include spontaneous potential (SP), resistivity, gamma, and caliper logging. Wells will be constructed using Schedule 80 PVC, and slotted screen and annular material will be sized appropriate to the aquifer sediments encountered. Annular seals will conform to regulatory standards. Following

construction, each monitoring well will be development and sampled for general chemistry. Well completion reports will be written to summarize drilling, construction, testing and sampling results.

Task 5c: Collection of Monitoring Well Data

Land surface datum (LSD) and reference point (RP) for each new monitoring well will be surveyed to a known benchmark that ties horizontal and elevation coordinates to other wells within the Indian Wells Valley groundwater basin monitoring program. These data will be incorporated into the Indian Wells Valley groundwater basin GIS database (GSP § 352.4) for management and monitoring of groundwater levels and water quality. Dataloggers will be deployed at each well to record daily groundwater levels during the first year. The collected groundwater level data will be evaluated for short-term and seasonal trends (GSP §354.34). Temporal adjustments will be made to datalogger readings based on the groundwater level analysis.

Request for In-Kind Services

The following in-kind services are requested for both historical work completed for nine borings drilled in 2006/2007 (Tetra Tech EM Inc, 2008) and the additional four monitoring wells identified in this task. Indian Wells Valley monitoring well construction was completed for an AB303 grant.

BLM or Navy: provide environmental documentation and National Environmental Policy Act (NEPA) requirements for drilling on federal land, including surveys of biological and cultural resources, and site ingress and egress points.

Kern County Environmental Health Department: provide well permit fees involving US Navy Seabee drilling.

Naval Air Weapons Station: provide coordination, management, and labor from the Seabees well drilling program, geologic logging, well development, and collecting water quality samples. This proposal is based on constructing two wells in IWV per year (2018 and 2019).

Searles Valley Minerals Corporation: provide a comprehensive suite of downhole geophysical logs for each borehole (prior to well construction)

Environmental Compliance

The BLM or Navy will provide environmental documentation to satisfy federal NEPA requirements for the construction of monitoring wells to be drilled on federal land. Because no California State agency approval are necessary for the construction of the monitoring wells, CEQA does not apply.

Project Deliverables (estimated 0% complete)

Well completion reports will be filed with DWR. The geologic characterization will be incorporated into, and presented with, the HCM and Indian Wells Valley groundwater basin groundwater model. The new monitoring wells will be incorporated into the database and monitoring network developed for the GSP. Results from the field work will be presented to and reviewed by the IWVGA TAC committee (including public participation).

4.6 Task 6: Stream Gages

Objectives

Building upon previous basin characterization studies¹⁰ and preliminary data gap evaluations, it has been determined that stream gages will be required. The objective of the new stream gages will be to fill hydrologic data gaps. The construction of new stream gages support the development of the GSP because the data collected and analyzed will be used to refine the existing Indian Wells Valley groundwater basin monitoring network (GSP § 354.34), validate the hydrogeologic conceptual model (HGM) (GSP § 354.14) and update the numerical groundwater model (model) (GSP § 354.16).

Tasks

The budget for this task is approximately \$148,500. Work on this task is anticipated to begin in March 2018 and is anticipated to be completed by September 2018.

In order to design and install two new streamflow gages for the Indian Wells Valley groundwater basin GSP, the following subtasks will be required:

- Hydrologic Analysis
- Design and Location Siting
- Equipment Purchase, Installation, and Testing

¹⁰ U.S. Bureau of Reclamation, 1993; Tetra Tech EM, Inc., 2003a and 2003b; IWVCGW-TAC and GTC, 2008.

Task 6a: Hydrologic Analysis

While not dependent upon the Weather Station task (see Task 7), this task will site new streamflow gages consistent with future precipitation gages. GIS analysis will use topographic, geologic, soils, and land use data to assess potential sites for streamflow gages. Rainfall-runoff relationships from existing data will be estimate expected flow ranges and watershed characteristics of the possible sites.

Task 6b: Design and Location Siting

Field inspection of the streamflow gages identified in Task 1 will be inspected by a qualified geomorphologist to assess access and constructability. Sites characterized by bedrock channels will be assessed for both low-flow and high-flow characteristics. Based on review of these sites, water level equipment that meet the environmental requirements specifications will be selected. Low flow flumes¹¹ to measure baseflows less than 5 cubic feet per second (cfs) will be installed; high flows will be estimated based on channel geometry.

Equipment will be selected to consistent with the environmental conditions of each site. Additionally, telemetry equipment, solar sources, dataloggers, and other equipment that supports data relay to the DMS will be selected. Based on the location and equipment, permitting will be performed.

Task 6c: Equipment Purchase, Installation, and Testing

Low flow flumes, water level loggers, and telemetry equipment that meets the environmental requirement specifications will be purchased and delivered to the job site. Based on land ownership and location, fencing will be purchased to protect the stations.

Based on the site selection, location, equipment, and access, a work plan to install and test the equipment will be developed. Installation of the precipitation station, telemetry equipment, and fencing will be performed. Testing and interfacing the data with the DMS will be performed and certified.

Environmental Compliance

¹¹ In lieu of installing a flume, a hard bottom section of creeks may be surveyed to develop a flow rating curve based on water depth.

Environmental compliance requirements are currently unknown because the creek/streams for installation have not been identified. Habitat designations, land ownership, and other considerations will be investigated to determine the appropriate NEPA and/or CEQA requirements.

Project Deliverables (estimated 0% complete)

A technical memorandum will be prepared and presented to the IWVGA TAC committee. Other deliverables will include design drawings, equipment specifications, and photographs of the installed stream gages.

4.7 Task 7: Weather Stations

Objectives

Building upon previous basin characterization studies¹² and preliminary data gap evaluations, it has been determined that new weather stations will be required. The objective of the new weather stations will be to fill in meteorological data gaps. The construction of new weather stations support the development of the GSP because the data collected and analyzed will be used to refine the existing Indian Wells Valley groundwater basin monitoring network (GSP § 354.34), validate the hydrogeologic conceptual model (HGM) (GSP § 354.14) and update the numerical groundwater model (model) (GSP § 354.16).

The objective of this task is to establish a spatial relationship between precipitation and elevation that can be used to estimate mountain front recharge. Two automated weather station that monitor rainfall and evaporation will be installed above the valley floor to complement existing stations.

Tasks

The budget for this task is approximately \$90,000. Work on this task is anticipated to begin in March 2018 and is anticipated to be completed by August 2018.

In order to design and install two new weather stations for the Indian Wells Valley groundwater basin GSP, the following subtasks will be required:

- Design and Location Siting
- Equipment Purchase

¹² U.S. Bureau of Reclamation, 1993; Tetra Tech EM, Inc., 2003a and 2003b; IWVCGW-TAC and GTC, 2008.

- Installation and Testing

Task 7a: Design and Location Siting

Existing precipitation and streamflow data will be used to identify drainage basins along the mountain fronts for the siting of two new weather stations. The two new stations will be located where precipitation and runoff relationships can be developed to estimate recharge. This task will review topographic, land use, parcel ownership information to identify possible locations for installation of precipitation stations. While not dependent upon the Streamflow Gage task (see Task 6), this task will site new precipitation stations consistent with future streamflow gages.

Based on the elevation and location of the sites, equipment will be selected to consistent with the environmental conditions. Additionally, telemetry equipment, solar sources, dataloggers, and other equipment that supports data relay to the DMS will be selected. Based on the location and equipment, permitting will be performed.

Task 7b: Equipment Purchase

Weather stations that meet the environmental requirements specifications will be purchased and delivered to the job site. Based on land ownership

Task 7c: Installation and Testing

Based on the site selection, location, equipment, and access, a work plan to install and test the equipment will be developed.

Environmental Compliance

Environmental compliance requirements are currently unknown because the locations for installation have not been identified. Habitat designations, land ownership, and other considerations will be investigated to determine the appropriate NEPA and/or CEQA requirements.

Project Deliverables (estimated 0% complete)

The task deliverables will be design drawings, equipment specifications, and photographs of the installed weather stations.

4.8 Task 8: Water Quality and Stable Isotope Sampling and Analysis

Objectives

Building upon previous basin characterization studies¹³ and preliminary data gap evaluations, it has been determined that water quality and stable isotope sampling will be required. The objective of the sampling and analysis will be to fill in water quality and hydrogeologic data gaps. The sampling and analysis support the development of the GSP because the data collected and analyzed will be used to refine the existing Indian Wells Valley groundwater basin monitoring network (GSP § 354.34), validate the hydrogeologic conceptual model (HGM) (GSP § 354.14) and update the numerical groundwater model (model) (GSP § 354.16).

Tasks

The budget for this task is approximately \$130,800. Work on this task is anticipated to begin in June 2018 and is anticipated to be completed by December 2018.

In order to establish the perform water quality and stable isotope sampling and analysis, the following subtasks will be required:

- Surface and Groundwater Sampling
- Perform Geochemical Reaction and Transport Analysis

Task 8a: Surface and Groundwater Sampling

Surface water and groundwater quality samples will be collected and analyzed to provide hydrogeologic information on flow paths from surface water recharge at the mountain front, through subsurface deposits, near faults, and towards Indian Wells Valley groundwater basin production zones. These data will help to improve the HCM (GSP § 354.14) and refine model (GSP § 354.16) calibration. This study will follow recommendations made by, and be integrated with, work completed for AB303 in 2003 and 2008.

Field measurements will be recorded for pH, temperature, dissolved oxygen and conductivity during well purging prior to well sampling. Water quality samples will be collected from 46 wells and 10 intermittent streams and analyzed for general chemistry and stable isotopes. General chemistry analysis will be

¹³ U.S. Bureau of Reclamation, 1993; Tetra Tech EM, Inc., 2003a and 2003b; IWVCGW-TAC and GTC, 2008.

performed by a California State certified analytical laboratory and include anions/cations, conductivity and total dissolved solids. Stable isotopes carbon, hydrogen, oxygen, sulfur and boron will be measured by specialized laboratories comparable to previous analyses.

Task 8b: Perform Geochemical Reaction and Transport Analysis

Historical and current isotopic data will be compiled and analyzed by an experienced geochemist. Geochemical reaction and transport modeling will be completed using USGS's PHREEQC or similar software. This analysis will provide information on source water recharge, groundwater flow paths, and age dating of water within the basin. This study will support the HCM, by focusing monitoring objectives and refining the Basin Model.

Environmental Compliance

The activities involved in this task do not qualify as a "Project" as defined under the California Environmental Quality Act, Section 21065.

"Project" means an activity which may cause either a direct physical change in the environment, and which is any of the following:

- a) An activity directly undertaken by any public agency.
- b) An activity undertaken by a person which is supported, in whole or in part, through contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.
- c) An activity that involves the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

No environmental compliance documents will be required.

Project Deliverables (estimated 0% complete)

The water quality and stable isotope sampling analysis will be incorporated into, and presented with, the monitoring network, HCM and Basin Model. The water analyses data will be incorporated into the database and monitoring network developed for the GSP. Results from the field work will be presented to the IWVGA TAC committee (including public participation).

4.9 Task 9: Aquifer Tests

Objectives

Building upon previous basin characterization studies¹⁴ and preliminary data gap evaluations, it has been determined that aquifer tests will be required. The objective of the aquifer tests is to fill in hydrogeologic data gaps. Aquifer performance tests will support the development of the GSP because the data collected and analyzed will be used to refine the existing Indian Wells Valley groundwater basin monitoring network (GSP § 354.34), validate the hydrogeologic conceptual model (HGM) (GSP § 354.14) and update the numerical groundwater model (model) (GSP § 354.16).

Tasks

The budget for this task is approximately \$172,300. Work on this task is anticipated to begin in January 2018 and is anticipated to be completed by March 2018.

In order to establish the perform aquifer testing, the following subtasks will be required:

- Prepare Aquifer Test Work Plan
- Perform Aquifer Testing

Task 9a: Prepare Aquifer Test Work Plan

An aquifer performance testing work plan will be developed to include specifications and the locations and maps of wells to be tested. Aquifer testing will be conducted at three locations prioritized during Task 4.

Task 9b: Perform Aquifer Testing

Each aquifer performance test will include a series of three to four step tests, 78- to 96-hour constant rate test, and a recovery test. Groundwater level data collected from the pumping tests will be analyzed by a certified hydrogeologist. This analysis will provide aquifer properties (transmissivity, storage, semi-confining layers) and boundary conditions (faults, bedrock, recharge, well interference) for the Basin Model.

¹⁴ U.S. Bureau of Reclamation, 1993; Tetra Tech EM, Inc., 2003a and 2003b; IWVCGW-TAC and GTC, 2008.

Environmental Compliance

The activities involved in this task do not qualify as a “Project” as defined under the California Environmental Quality Act, Section 21065.

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- a) An activity directly undertaken by any public agency.
- b) An activity undertaken by a person which is supported, in whole or in part, through contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.
- c) An activity that involves the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

No environmental compliance documents will be required.

Project Deliverables (estimated 0% complete)

The aquifer performance testing will be incorporated into, and presented with, the HCM and Basin Model developed for the GSP. Results from the testing will be presented to and reviewed by the IWVGA TAC committee.

4.10 Task 10: Recycled Water Study

Objectives

The existing Wastewater Treatment Plant located at the China Lake NAWS site provides recycled water for irrigation to the China Lake Golf Course and City of Ridgecrest, and to evaporation/disposal ponds at NAWS and within the City of Ridgecrest (City) boundary. The City has completed a Wastewater Treatment Plant Facility Plan (Provost & Pritchard Consulting Group, October 2015) that included the evaluation of two site alternatives for construction of a proposed Wastewater Treatment Plant. An Environmental Impact Report (EIR) has been completed for both site alternatives and preliminary design has also been completed. The work performed by the City concluded that the recycled water component of the project needs further development and a Recycled Water Feasibility Study was recommended to determine

demand, availability, cost and best use of the recycled water. In addition, two other reports including “Indian Wells Valley Water Availability and Conservation Report” prepared by Todd Engineers in January 2014 and the “2015 Indian Wells Valley Water District Urban Water Management Plan” prepared by Krieger & Stewart Engineering Consultants, briefly discussed the current and potential application of recycled water within the basin and the benefits that recycled water could have on groundwater levels, agriculture, recreation, and local ecosystems. The goals and objectives of the Recycled Water Feasibility Study is to determine the quantity and cost of recycled water that can be used to enhance the water supply in the IWV 354.18. The objectives of this study are as follows:

- Review the existing recycled water supply and demand
- Identify existing recycled water infrastructure
- Identify location and water demands of potential new recycled water users and the required infrastructure to serve these new users
- Estimate the costs to supply recycled water to the potential users that are identified
- Review rules and regulations on recycled water usages relating to irrigation, commercial processes, signage onsite monitoring and groundwater recharge
- Summarize the quantity, place of use, and cost of and expended recycled water supply

The recycled water study supports the development and implementation of the GSP by evaluating a potential groundwater replenishment strategy that could be used as a sustainable management action (GSP §354.44).

Tasks

The budget for this task is approximately \$73,500. Work on this task is anticipated to begin in January 2018 and is anticipated to be completed by May 2018.

In order to develop the recycled water study, the following subtasks will be required:

- Existing Supply and Demand Analysis
- Identify existing Recycled Water Infrastructure and Users
- Review Regulatory and Institutional Requirements
- Identify and Evaluate Potential Recycled Water Users
- Prepare Technical Memorandum

Task 10a: Existing Supply and Demand Analysis

Recycled water supply and demand data from the existing wastewater treatment plant located within the China Lake Naval Air Weapons Station (CLNAWS) will be researched and collected. The current treatment plant capacity is about 3.6 million gallons per day (mgd). A new wastewater treatment plant is being proposed to be constructed near the CLNAWS site that would have a capacity of 5.4 mgd plant and the proposed plant.

Task 10b: Identify Existing Recycled Water Infrastructure and Users

All existing recycled water infrastructure including pipelines and users will be identified. A map will be generated to show all existing infrastructure.

Task 10c: Review Regulatory and Institutional Requirements

The rules and regulations will be reviewed and the the regulatory and institutional requirements for expanding the use for recycled water for potential uses in Indian Wells Valley will be described.

Task 10d: Identify and Evaluate Potential Recycled Water Users

Potential new users for recycled water for both non-potable and indirect potable reuses will be identified and evaluated. The potential recycled water demand for each user and the infrastructure required to deliver the recycled water will be determined. Available hydrogeologic information will be reviewed to evaluate the potential for utilizing recycled water for groundwater recharge. A map will be generated to show the new infrastructure required to serve each new user and the associated recycled water usage estimate.

A conceptual level cost estimate for the infrastructure identified to supply the potential recycled water users will be prepared. Total costs to supply recycled water including treatment, distribution, and operation and maintenance costs, and utilizing recycled water for groundwater recharge through surface spreading, will be prepared.

Task 10e: Prepare Technical Memorandum

A Recycled Water Feasibility technical memorandum will be prepared to include all of the findings, the users identified, the quantities that could be used and costs to provide recycled water. Recommendations

for implementation will be provided. Any potential permitting requirements will be identified in the technical memorandum.

Environmental Compliance

The activities involved in this task do not qualify as a “Project” as defined under the California Environmental Quality Act, Section 21065 because no implementation measures are proposed for development.

“Project” means an activity which may cause either a direct physical change in the environment, and which is any of the following:

- a) An activity directly undertaken by any public agency.
- b) An activity undertaken by a person which is supported, in whole or in part, through contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.
- c) An activity that involves the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

No environmental compliance documents will be required.

Project Deliverables (estimated 0% complete)

The deliverable for this task will be a Recycled Water Feasibility Study evaluating the existing recycled water supply and demand, proposed new recycled water users and the infrastructure required to serve the new users. Preliminary site design and cost estimates will be prepared as part of the cost benefit analysis.

4.11 Task 11: Imported Water Study

Objectives

Imported water is currently not available in the Indian Wells Valley groundwater basin, although the City of Los Angeles Department of Water and Power (LADWP) Aqueduct passes through the western edge of the basin. An analysis of the feasibility of obtaining imported water is needed to inform the development of management scenarios for the sustainable management of the basin (GSP §354.44).

Tasks

The budget for this task is approximately \$100,400. Work on this task is anticipated to begin in January 2018 and is anticipated to be completed by June 2018.

In order to develop the imported water study, the following subtasks will be required:

- Evaluate Potential Imported Water Sources
- Evaluate Infrastructure Requirements
- Prepare Technical Memorandum

Task 11a: Evaluate Potential Imported Water Sources

Potential sources of imported water for purchase and/or exchange will be reviewed. The sources that will be reviewed include, but are not limited to, LADWP's Owen's Valley water, Kern County sources, State Water Project contractors and their sub-agencies, the Fremont groundwater basin, and ocean desalination projects. The typical availability, cost, and institutional issues involved in obtaining these supplies will be evaluated.

Task 11b: Evaluate Infrastructure Requirements

The infrastructure needed to deliver imported water for direct use and groundwater recharge in the Indian Wells Valley groundwater basin will be determined. Conceptual level cost estimates for the required infrastructure will be prepared.

Task 11c: Prepare Technical Memorandum

A technical memorandum that summarizes the information developed in the above tasks and presents the availability, institutional issues and costs of an imported water supply will be prepared.

Environmental Compliance

The activities involved in this task do not qualify as a "Project" as defined under the California Environmental Quality Act, Section 21065 because no implementation measures are proposed for development.

“Project” means an activity which may cause either a direct physical change in the environment, and which is any of the following:

- a) An activity directly undertaken by any public agency.
- b) An activity undertaken by a person which is supported, in whole or in part, through contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.
- c) An activity that involves the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

No environmental compliance documents will be required.

Project Deliverables (estimated 0% complete)

The deliverable for this task will be an Imported Water Feasibility Study evaluating the potential imported water sources and the necessary infrastructure required to deliver imported water. In addition, institutional issues and costs of an imported water supply will be included.

4.12 Task 12: GSP Development and Compilation

Objectives

As discussed in Section 2.0, the goal of the Indian Wells Valley groundwater basin GSP is to develop sustainable management strategies to provide long-term sustainable groundwater management in the basin. The objective of this task is to develop a SGMA compliant GSP document for submittal to DWR that incorporates the findings of the studies and activities presented in Tasks 1-9.

Tasks

The budget for this task is approximately \$210,200. Work on the GSP is anticipated to begin in January 2018 and is anticipated to be completed by January 2020.

The Indian Wells Valley groundwater basin GSP will follow all SGMA and GSP regulations and will follow the guidance of DWR as established by the GSP BMPs and other published guidance documents.

To develop the GSP, the following subtasks will be required:

- Introduction/Description of Plan Area

- Basin Setting/Conceptual Model
- Develop Sustainability Criteria/Goals
- Monitoring Network
- Projects/ Management Actions
- Preparation Draft GSP and Finalization
- Project Management
- Stakeholders/Department of Water Resources Coordination

Task 12a: Introduction/Description of Plan Area

Introductory sections will be prepared and written. In accordance with GSP §354.8, a description of the Plan Area will be prepared including a description of jurisdictional areas and current water resources monitoring and management programs. Maps will be prepared depicting the following:

- Area covered by the GSP
- Jurisdictional boundaries
- Existing land use
- Water/Hydrogeologic features
- Well locations

As applicable to the Indian Wells Valley groundwater basin, land use elements and additional GSP components discussed in GSP §354.8(f) and §354.8(g) will be included in the description of the Plan Area.

Task 12b: Basin Setting/Conceptual Model

The HCM developed in Task 1 will be incorporated into to the GSP in accordance with GSP § 354.14 and DWR's guidance provided in DWR's BMP¹⁵. Cross sections and maps of physical characteristics will be prepared.

Using the results and conclusions from the numerical groundwater model and Salt and Nutrient Management Plan (Task 1 and Task 2), the current and historical groundwater conditions will be characterized in compliance with GSP § 354.16 and will discuss the following:

¹⁵ DWR (<http://www.water.ca.gov/groundwater/sgm/bmps.cfm>): BMP 3 Hydrogeologic Conceptual Model.

- Groundwater elevation data
- Groundwater in storage
- Seawater intrusion conditions
- Groundwater quality issues
- Land subsidence conditions
- Identification of interconnected surface water systems
- Identification of groundwater-dependent ecosystems

The water budget will be incorporated into to the GSP and will include a description of inflows, outflows, change in storage, quantification of overdraft, and an estimate of the sustainable yield.

Task 12c: Develop Sustainability Management Criteria/Goals

The IWVGA and the groundwater basin Stakeholders, as represented in the PAC and TAC committees, will collaboratively work to develop a Sustainability Goal (GSP § 354.24) based on specific current basin conditions with the objective of having no “undesirable” results within 20 years subsequent to adoption of the GSP. Pursuant to the DWR Guidelines for GSPs, it is anticipated sustained groundwater levels will be the initial goal and may serve as a proxy for other sustainability indicators.

For each sustainability indicator established, Undesirable Results will be will be defined, pursuant to GSP §354.26, and a description of the cause of groundwater conditions that has led to undeniable results will be included. Likewise, a description of each minimum threshold and the relationship to each sustainability indicator will be prepared, pursuant to GSP § 354.28.

Measurable objectives (GSP § 354.30) will be established with a reasonable margin of safety to track each sustainability indicator. Interim milestones for each measurable objective will be established in five year increments.

Task 12d: Monitoring Network

The monitoring protocols and reporting standards developed in Task 3b will be incorporated into the GSP in accordance with the DWR’s guidance provided in the DWR’s BMP developed for SGMA¹⁶ and and GSP § 352.2.

¹⁶ DWR (<http://www.water.ca.gov/groundwater/sgm/bmps.cfm>): BMP 1 Monitoring Protocols, Standards, and Sites.

The current monitoring network will be developed and incorporated into to the GSP in accordance with the DWR's guidance provided in DWR's BMP developed for SGMA¹⁷ and GSP §354.34. Plans for improvement the monitoring network to fill in data gaps, as identified in Task 4, will be included in the monitoring network description, in accordance with GSP § 354.36.

Task 12e: Projects/ Management Actions

Implementation projects and management actions to achieve measurable objectives in accordance with GSP §354.44 will be collaboratively developed with Stakeholders. These may include water conservation programs, groundwater replenishment programs, recycled water programs, and assessments on production to facilitate Basin management activities. The results of the Tasks 10 and 11 (Recycled Water Study and Imported Water Study) will be evaluated to determine implementation feasibility and ability to achieve the sustainability objectives. The results of the numerical model incorporating demand and management scenarios will be characterized and evaluated.

A schedule for implementation, plan evaluations, and reporting will be prepared.

Task 12f: Preparation Draft GSP and Finalization

A draft GSP, including figures, maps, tables, and appendices, will be prepared for distribution to IWVGA board members, IWVGA committee members, and other Stakeholders for review. Miscellaneous GSP requirements not discussed in Task 13a through 13e will be prepared including, but not limited to, notice and communication requirements (GSP §354.10), agency information (GSP §354.6), and an Executive Summary (GSP §354.4). After incorporating stakeholder comments and recommendations a Final GSP will be prepared and submitted to DWR utilizing the DWR Checklist¹⁸.

Task 12g: Project Management

IWVGA will coordinate with consultants, local agencies, and Stakeholders on GSP task development. Presentations and updates will be prepared for TAC and PAC meetings to update the Stakeholders and the public on the development of the GSP and its associated tasks and activities. Quarterly progress

¹⁷ DWR (<http://www.water.ca.gov/groundwater/sgm/bmps.cfm>): BMP 2 Monitoring Network and Identification of Data Gaps.

¹⁸ DWR (http://water.ca.gov/groundwater/sgm/pdfs/GD_GSP_Checklist_Draft_2016-10-28.pdf): Preparation Checklist for GSP Submittal Guidance Document.

reports to report on the status of all GSP associated tasks will be prepared and submitted to DWR to provide work plan, budget, and schedule tracking.

Task 12h: Stakeholders/Department of Water Resources Coordination

IWVGA will hold Stakeholder meetings, and prepare agenda and minutes for all meetings to be posted publicly. A public hearing will be held to solicit public comments and input prior to IWVGA adoption of the Final GSP. As discussed in Section 3.0, stakeholders will be involved in the GSP process through IWVGA Board meetings as well as TAC and PAC committee meetings. coordinate with the California Department of Water Resources on GSP requirements and the final submittal of the GSP. In addition, the IWVGA will coordinate with the DWR staff regarding proposed or newly developed SGMA regulations, overall implementation of SGMA, and DWR workshops and public hearings.

Environmental Compliance

The preparation and adoption of a groundwater sustainability plan is exempt from the provisions in the California Environmental Quality Act, commencing with Section 21000. Accordingly, no environmental compliance documents will be required.

Project Deliverables (estimated 0% complete)

The deliverables for this task will be the Final GSP submittal to DWR and a IWVGA resolution adopting the Final GSP that complies with all GSP Regulations for the Indian Wells Valley groundwater basin. Quarterly updates, reporting on the status of all GSP associated tasks, will be submitted to DWR.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

“ATTACHMENT TAB”

ATTACHMENT 5

BUDGET

1.0 BUDGET SUMMARY

The Project Budget, as with Attachment 4 (“Work Plan”) and Attachment 6 (“Schedule”), has been broken down by tasks and subtasks, as appropriate. The total budget for all tasks is **\$2,540,800**. The Project Budget was prepared by using time and billing rate estimates for each task based on discussion with relevant stakeholders including Indian Wells Valley Water Authority, Indian Wells Valley Water District, Kern County Water Agency, U.S. Navy, Desert Research Institute, and others, as well as previous experience on project timeframes. Some technical work has already been conducted to support the development of the GSP, and as allowed by the grant guidelines, the Project Budget includes local cost share items starting in January 2015. All costs incurred between January 1, 2015 and July 1, 2017 will be provided as local cost share. The grant-funded portion is proposed to cover a portion of costs incurred starting July 2017.

Table 4 “Project Budget” (see Attachment 5-1) provides the Project Budget including a cost breakdown for the following tasks, organized by the GSP development Objective identified in Attachment 4 (“Work Plan”):

- Task 1: Model Development
- Task 2: Salt and Nutrient Management Plan Development
- Task 3: Data Management System
- Task 4: Identify and Evaluate Hydrogeologic Data Gaps
- Task 5: Monitoring Wells
- Task 6: Stream Gages
- Task 7: Weather Stations
- Task 8: Water Quality and Stable Isotope Sampling and Analysis
- Task 9: Aquifer Tests
- Task 10: Recycled Water Study
- Task 11: Imported Water Study
- Task 12: GSP Development and Compilation

The budget breakdown for these tasks are organized by the four GSP development Objectives

Table 5 “Proposal Budget” (See Attachment 5-2) provides the Proposal Budget for the Indian Wells Valley groundwater basin GSP development. The total Proposal Budget is \$2,540,800 with \$1,270,400 in requested grant amount and \$1,270,400 in Cost Share: Non-State Fund. There are no costs in the Other Cost Share category. Although the Indian Wells Valley groundwater basin GSP will directly serve the needs of disadvantage communities, severely disadvantaged communities, and economically distressed areas overlying the groundwater basin, the percentage of Cost Share is 50%.

ATTACHMENT 5-1
TABLE 4 – PROJECT BUDGET

Table 4 - Project Budget

Proposal Title: Indian Wells Valley Groundwater Basin - Groundwater Sustainability Plan Development
Project Title: Indian Wells Valley Groundwater Basin - Groundwater Sustainability Plan Development
Project serves a need of a DAC?: Yes No
Cost Share Waiver Request?: Yes No

Tasks		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source	Other Cost Share	Total Cost
Objective 1					
1	Task 1 - <u>Model Development</u> Existing - Numerical Groundwater Model Development (1/1/15-7/1/17) Task 1a - Hydrogeologic Conceptual Model Task 1b - Numerical Groundwater Model (Review Existing Model, Create Sustainable Basin Model Updates and Scenarios, Transport Modeling to Evaluate Groundwater Quality, Evaluate Potential Land Subsidence)	\$230,957 \$0 \$23,715.00 \$207,241.94	\$274,843 \$200,000 (Funding Source: Navy) \$7,685 \$67,158 (Funding Source: TBD)	\$0 \$0 \$0 \$0	\$505,800 \$200,000 \$31,400 \$274,400
2	Task 2 - <u>Salt and Nutrient Management Plan Development</u> Task 2a - Loading Analysis (Existing) Task 2b - Mixing Model Development (Existing) Task 2c - Reporting and Coordination	\$20,000 \$0 \$0 \$20,000	\$60,000 \$30,000 \$30,000 \$0 (Funding Source: City of Ridgecrest and IWVWD)	\$0 \$0 \$0 \$0	\$80,000 \$30,000 \$30,000 \$20,000

Tasks		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source	Other Cost Share	Total Cost
Objective 2					
3	Task 3 - <u>Data Management System</u> Task 3a - Develop a Web-Based GeoDatabase (DMS) Task 3b - Establish Monitoring Protocols and Reporting Standards Task 3c - Populate Database with Historical Data Task 3d - Install Transducers and Telemetry Equipment Task 3e - Integrate GSP Goals and Objectives - Adaptive Management	\$269,928 \$36,780.91 \$23,337.38 \$40,934.82 \$135,719.30 \$33,155.69	\$87,472 \$11,919 \$7,563 \$13,265 \$43,981 \$10,744 (Funding Source: TBD)	\$0 \$0 \$0 \$0 \$0 \$0	\$357,400 \$48,700 \$30,900 \$54,200 \$179,700 \$43,900
4	Task 4 - <u>Identify and Evaluate Hydrogeologic Data Gaps</u> Task 4a - Review Existing Model and Monitoring Network Task 4b - Identification and Prioritization of Data Gaps	\$50,376 \$32,022.81 \$18,352.69	\$16,324 \$10,377 \$5,947 (Funding Source: TBD)	\$0 \$0 \$0	\$66,700 \$42,400 \$24,300
5	Task 5 - <u>Monitoring Wells</u> Task 5a - Design and Location Siting Task 5b - Work Plan and Well Construction Task 5c - Collection of Monitoring Well Data	\$0 \$0 \$0 \$0	\$605,200 \$17,300 \$537,300 \$50,600 (Funding Source: Navy)	\$0 \$0 \$0 \$0	\$605,200 \$17,300 \$537,300 \$50,600

Tasks		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source	Other Cost Share	Total Cost
6	Task 6 - <u>Stream Gages</u>	\$112,155	\$36,345	\$0	\$148,500
	Task 6a - Hydrologic Analysis	\$16,086.93	\$5,213	\$0	\$21,300
	Task 6b - Design and Location Siting	\$31,418.60	\$10,181	\$0	\$41,600
	Task 6c - Equipment Purchase, Installation, and Testing	\$64,649.82	\$20,950	\$0	\$85,600
7	Task 7 - <u>Weather Stations</u>	\$67,973	\$22,027	\$0	\$90,000
	Task 7a - Design and Location Siting	\$17,295.34	\$5,605	\$0	\$22,900
	Task 7b - Equipment Purchase	\$31,645.18	\$10,255	\$0	\$41,900
	Task 7c - Installation and Testing	\$19,032.42	\$6,168	\$0	\$25,200
			(Funding Source: TBD)		
8	Task 8 - <u>Water Quality and Stable Isotope Sampling and Analysis</u>	\$98,787	\$32,013	\$0	\$130,800
	Task 8a - Surface and Groundwater Sampling	\$68,123.99	\$22,076	\$0	\$90,200
	Task 8b - Perform Geochemical Reaction and Transport Analysis	\$30,663.35	\$9,937	\$0	\$40,600
			(Funding Source: TBD)		
9	Task 9 - <u>Aquifer Tests</u>	\$130,130	\$42,170	\$0	\$172,300
	Task 9a - Prepare Aquifer Test Work Plan	\$27,264.70	\$8,835	\$0	\$36,100

Tasks		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source	Other Cost Share	Total Cost
	Task 9b - Perform Aquifer Testing	\$102,865.72	\$33,334 (Funding Source: TBD)	\$0	\$136,200
Objective 3					
10	Task 10 - <u>Recycled Water Study</u> Task 10a - Existing Supply and Demand Analysis Task 10b - Identify Existing Recycled Water Infrastructure and Users Task 10c - Review Regulatory and Institutional Requirements Task 10d - Identify and Evaluate Potential Recycled Water Users Task 10e - Prepare Technical Memorandum	\$55,511 \$4,984.68 \$4,531.53 \$2,567.87 \$24,545.78 \$18,881.37	\$17,989 \$1,615 \$1,468 \$832 \$7,954 \$6,119 (Funding Source: City of Ridgecrest and IWWWD)	\$0 \$0 \$0 \$0 \$0 \$0	\$73,500 \$6,600 \$6,000 \$3,400 \$32,500 \$25,000
11	Task 11 - <u>Imported Water Study</u> Task 11a - Evaluate Potential Imported Water Sources Task 11b - Evaluate Infrastructure Requirements Task 11c - Prepare Technical Memorandum	\$75,828 \$19,410.05 \$19,183.47 \$37,234.07	\$24,572 \$6,290 \$6,217 \$12,066 (Funding Source: TBD)	\$0 \$0 \$0 \$0	\$100,400 \$25,700 \$25,400 \$49,300
Objective 4					
12	Task 12 - <u>GSP Development and Compilation</u>	\$158,755	\$51,445	\$0	\$210,200

Tasks	(a)	(b)	(c)	(d)
	Requested Grant Amount	Cost Share: Non-State Fund Source	Other Cost Share	Total Cost
Task 12a - Description of Plan Area	\$6,797.29	\$2,203	\$0	\$9,000
Task 12b - Basin Setting/Conceptual Model	\$7,703.60	\$2,496	\$0	\$10,200
Task 12c - Sustainability Management Criteria/Goals	\$11,479.87	\$3,720	\$0	\$15,200
Task 12d - Monitoring Network	\$7,552.55	\$2,447	\$0	\$10,000
Task 12e - Projects/Management Actions	\$14,954.05	\$4,846	\$0	\$19,800
Task 12f - Preparation of Draft GSP and Finalization	\$26,584.97	\$8,615	\$0	\$35,200
Task 12g - Project Management	\$37,838.27	\$12,262	\$0	\$50,100
Task 12h - Stakeholder/DWR Coordination	\$45,843.97	\$14,856	\$0	\$60,700
Grand Total (Tasks 1-12)	\$1,270,400	\$1,270,400 (Funding Source: TBD)	\$0	\$2,540,800

ATTACHMENT 5-2

TABLE 5 – PROPOSAL BUDGET

Table 5 - Proposal Budget

Proposal Title: Indian Wells Valley Groundwater Basin - Groundwater Sustainability Plan Development

Individual Project Title		(a)	(b)	(c)	(d)	(e)
		Requested Grant Amount	Cost Share: Non-State Fund	Other Cost Share	Total Cost	% Cost Share
1	Indian Wells Valley Groundwater Basin - Groundwater Sustainability Plan Development	\$1,270,400	\$1,270,400	\$0	\$2,540,800	50%
	Proposal Total	\$1,270,400	\$1,270,400	\$0	\$2,540,800	50%

“ATTACHMENT TAB”

ATTACHMENT 6
SCHEDULE

1.0 PROJECT SCHEDULE

For the purposes of developing a comprehensive Project schedule, the following dates identified by DWR have been incorporated:

- Project work beginning after January 1, 2015 through July 1, 2017 (eligible for cost share)
- Project work beginning after July 1, 2017 (eligible for reimbursement)
- The Sustainable Groundwater Planning Grant Program award date has been assumed to be during December 2017.
- The Indian Wells Valley groundwater basin is a “critically overdrafted basin” and the Groundwater Sustainability Plan (GSP) completion date is January 31, 2020.

A Project schedule for the tasks and subtasks, including Project milestones, associated with developing the GSP for the Indian Wells Valley groundwater basin has been provided in Attachment 6-1 in the form of a Gantt chart. The tasks are consistent with the tasks provided in Attachment 4 (“Work Plan”) and Attachment 5 (“Budget”). Preparation of the Project schedule was based on various “Guidance Documents” previously provided by DWR for preparation of GSPs. Preparation of the Project schedule was also based on discussion with multiple stakeholders (including the Indian Wells Valley Groundwater Authority Board, Technical Advisory Committee, and Policy Advisory Committee) regarding potential additional studies, modeling, and other projects needed to prepare a complete GSP document for the Indian Wells Valley groundwater basin. The Indian Wells Valley Groundwater Authority will submit all of the reports required as part of the Grant agreement in a timely manner. Final invoicing will be submitted to DWR for review and approval following Project completion.

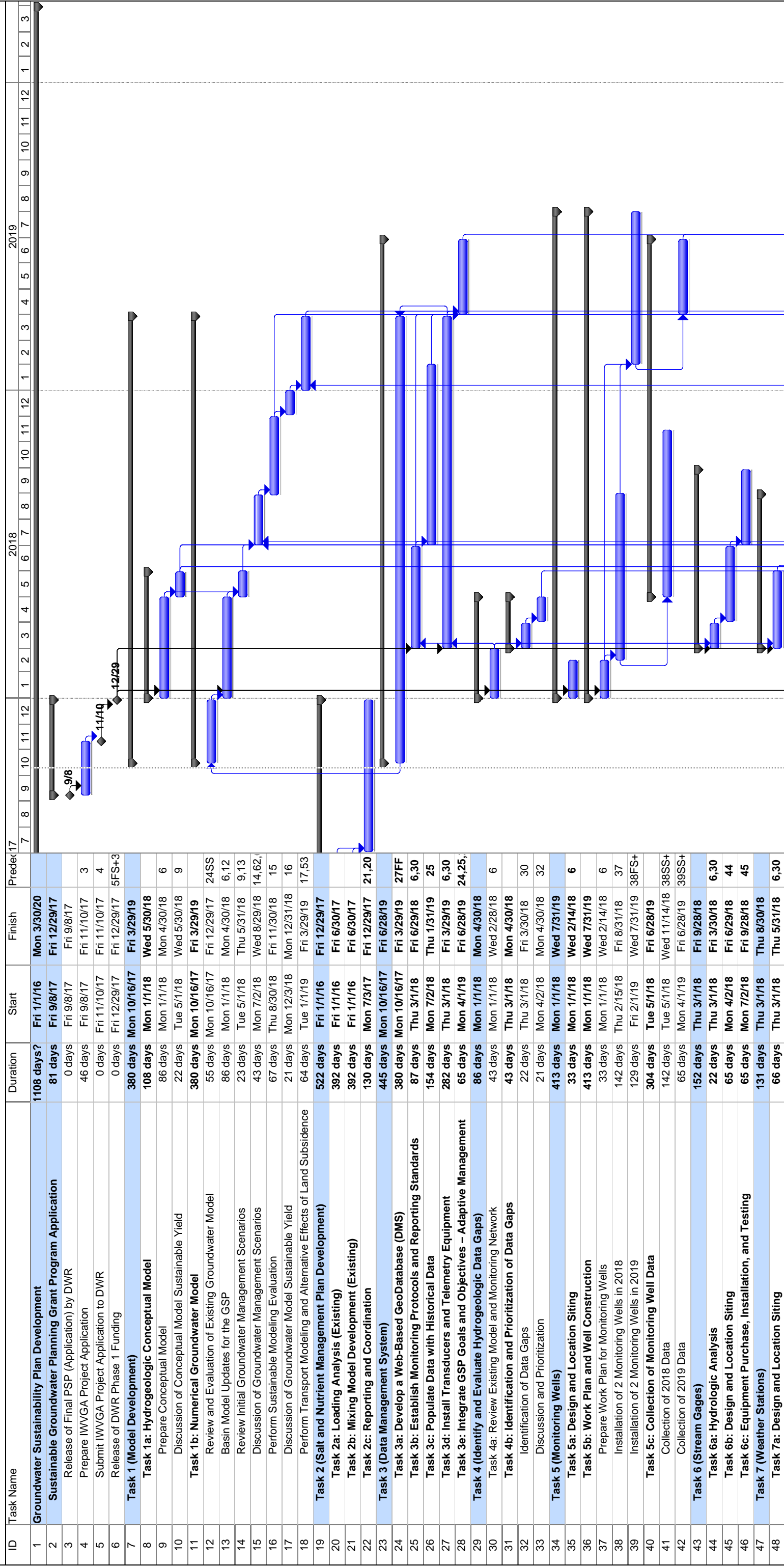
2.0 PROPOSAL SCHEDULE

A “wrapped-up” proposal schedule, which summarizes the comprehensive Project schedule reference above, is provided in Attachment 6-2.

ATTACHMENT 6-1
PROJECT SCHEDULE

**INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL - NOVEMBER 2017**

ATTACHMENT 6 - PROJECT SCHEDULE



Project: GSP Proposal
Date: Tue 10/10/17

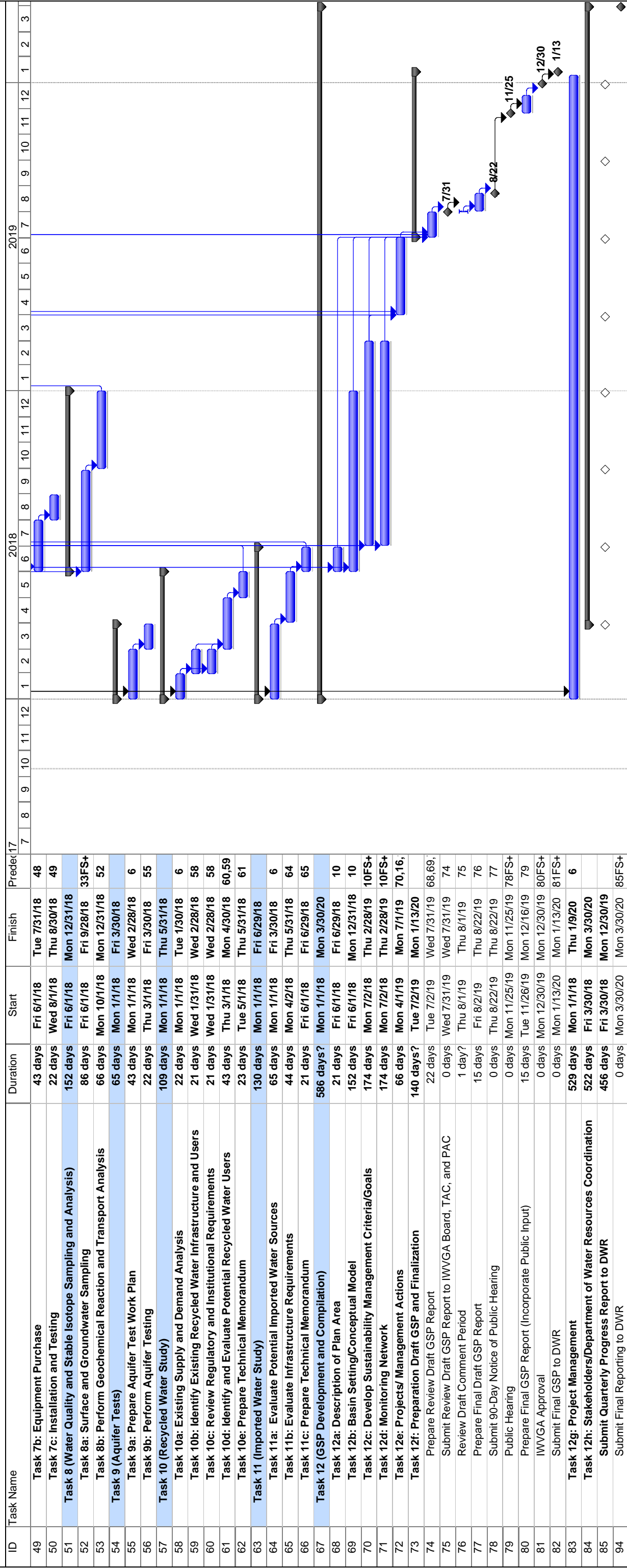
GSP Proposal

Legend:

- Task
- Critical Task
- Progress
- Milestone
- Summary
- Rolled Up Task
- Rolled Up Critical Task
- Rolled Up Milestone
- Rolled Up Progress
- Split
- External Tasks
- Project Summary
- Group By Summary
- Deadline

**INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL - NOVEMBER 2017**

ATTACHMENT 6 - PROJECT SCHEDULE



Project: GSP Proposal
Date: Tue 10/10/17

Task

Critical Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

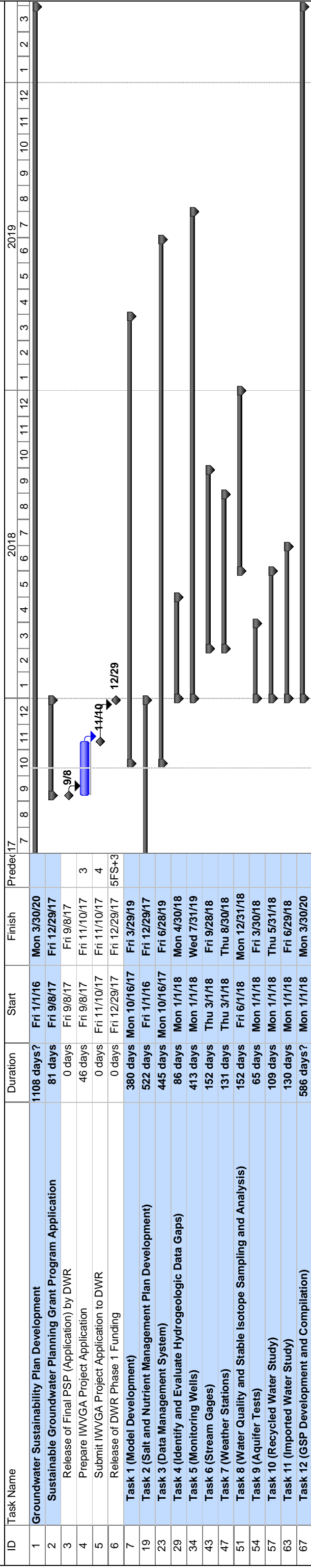
Deadline

Page 2

ATTACHMENT 6-2
PROPOSAL SCHEDULE

**INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL - NOVEMBER 2017**

ATTACHMENT 6 - PROJECT SCHEDULE



Project: GSP Proposal
Date: Tue 10/10/17

Task
Critical Task
Progress

Milestone
Summary
Rolled Up Task

Rolled Up Critical Task
Rolled Up Milestone
Rolled Up Progress

Split
External Tasks
Project Summary

Group By Summary
Deadline

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

“ATTACHMENT TAB”

ATTACHMENT 7

DISADVANTAGED COMMUNITIES

1.0 INTRODUCTION

Pursuant to DWR's "2015 Program Guidelines" for the Sustainable Groundwater Planning Grant Program, dated October 2015, a disadvantaged community (DAC) is "a community with an annual median household income that is less than 80 percent of the Statewide annual median household income (Water Code §79702.(j) which cross references to Water Code §79505.5)".

The proposed Project area covers the Indian Wells Valley groundwater basin which encompasses many diverse communities, and many of those communities include substantial areas that meet the definition of a DAC. Basin overdraft and the need to bring the basin into a sustainable balance are critical water supply issues for DACs that the proposed Project will address. As discussed previously, the Indian Wells Valley groundwater basin is identified by DWR as a critically overdrafted basin of Medium Priority, and as such, the GSA is required to develop the GSP (proposed Project), in compliance with SGMA. Basin resources are currently not sustainably managed and overdraft conditions have existed since the 1960s as a result of groundwater pumping exceeding the natural basin yield. The proposed Project will develop sustainable management actions that culminate in the absence of undesirable results within 20 years in order to provide long-term sustainable groundwater management within the basin which will enhance reliability of water supplies for DACs.

2.0 METHODOLOGY TO DETERMINE DACS

The identification of DACs and an evaluation of Project benefits to the DACs in the proposed Project area were prepared based on an approach recommended by DWR (in the Final Proposal Solicitation Package, dated September 2017) using information from the following DWR website:

http://www.water.ca.gov/irwm/grants/resources_dac.cfm

The DWR website includes an interactive mapping tool which identifies DACs based on US Census "block groups", "tracts", and "places" boundaries and US Census American Community Survey data from 2010 through 2014. Block groups, tracts, and places are based on the following definitions:

- Block groups are statistical divisions of census tracts and are generally defined to contain between 600 and 3,000 people;
- Tracts are small, relatively permanent statistical subdivisions of a county and generally have a population size between 1,200 and 8,000 people;
- Places can include incorporated places (e.g. Cities, boroughs, towns, or villages) or census designated places (e.g. unincorporated communities)

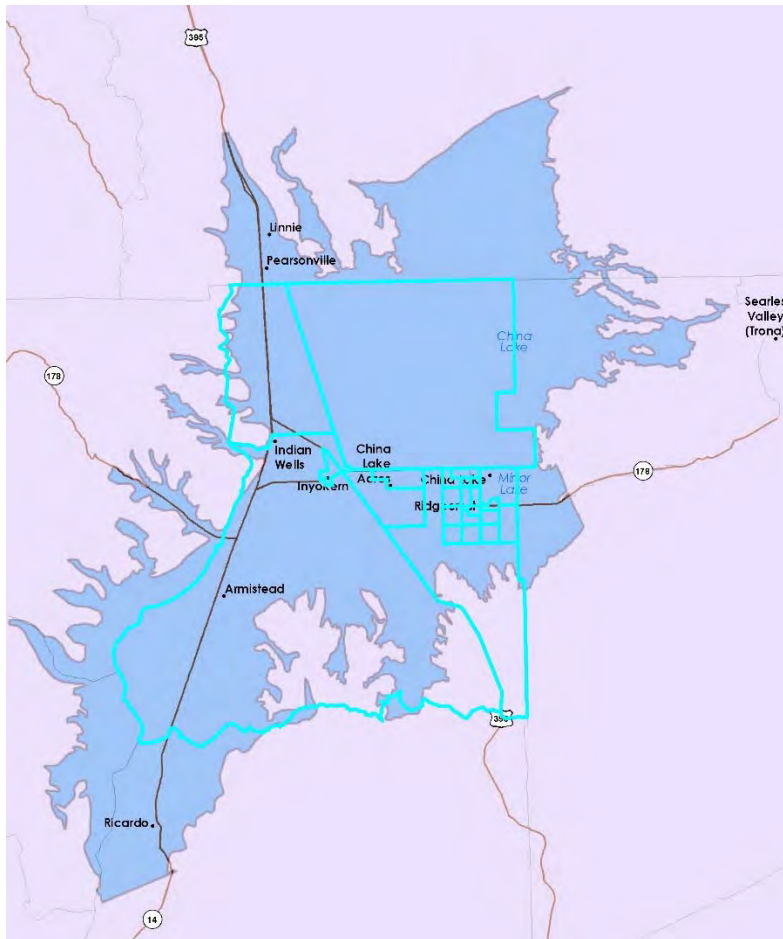
To identify and map the DACs within the proposed Project area, Geographical Information Systems (GIS) information from the DWR website was downloaded, and the layers representing DACs within the Indian Wells Valley groundwater basin were extracted. The GIS data represents the DACs with an annual median household income (MHI) less than 80 percent of the state average. Using the GIS information, the following figures were prepared and are attached:

- [Figure 7-1](#) shows DAC block groups within the Indian Wells Valley groundwater basin;
- [Figure 7-2](#) shows DAC tracts within the Indian Wells Valley groundwater basin;
- [Figure 7-3](#) shows DAC places within the Indian Wells Valley groundwater basin;
- [Figure 7-4](#) shows the total DACs (block groups, tracts, and places) within the Indian Wells Valley groundwater basin

Figure 7-4 shows the total DACs identified within the Indian Wells Valley groundwater basin. DACs located within the Indian Wells Valley groundwater basin include portions of the City of Ridgecrest and portions or all of the census designated places of China Lake Acres, Inyokern, and Pearsonville; and the unincorporated communities of Linnie, Ricardo, and China Lake. Based on GIS calculations, the total area of DACs within the basin (about 252,000 acres) covers approximately 66 percent of the Indian Wells Valley groundwater basin (about 382,000 acres). In addition to DACs within the basin, the Searles Valley (which includes the unincorporated community of Trona) comprised of DACs and is located approximately three (3) miles east of the basin boundaries. The Searles Valley has depended on basin groundwater supplies since 1918. The preparation of the Proposed project will benefit DACs within the Indian Wells Valley groundwater basin as well as within the Searles Valley.

The total population within the Indian Wells Valley groundwater basin in the year 2015 was approximately 33,600 based on US Census Bureau block group population data that was extrapolated from 2010 US Census data. The total population also includes the addition of communities in the Searles Valley located east of the basin boundaries. Based on the US Census Bureau block data, as well as population data provided on the DWR website, the total DAC population residing within the basin and in the Searles Valley is approximately 13,000. The total DAC population is approximately 39 percent of the total population within the Indian Wells Valley groundwater basin.

(Location of US Census Block Groups used to Estimate Population)



3.0 DAC PROJECT SUPPORT AND OUTREACH

The proposed Project includes the following DAC outreach and support, which are discussed further below:

- Public IWVGA Board meetings
- Public Technical Advisory Committee (IWVGA) meetings
- Public Policy Advisory Committee (IWVGA) meetings
- Website posting of meeting materials
- Local news reporting
- Inclusion of DAC representatives as voting members in the Policy Advisory Committee
- Discussion of public outreach efforts during Policy Advisory Committee meetings
- Letters of support from DACs

The IWVGA conducts regular Board meetings (on a monthly basis) to support the development of the Groundwater Sustainability Plan (GSP) for the Indian Wells Valley groundwater basin (i.e. proposed Project). The IWVGA has created a Technical Advisory Committee (TAC) which meets on a monthly basis and will assist in the development of the GSP. In addition, the IWVGA Board has created a Policy Advisory Committee (PAC) which meets on a monthly basis and provides representation to all types of water users in the Indian Wells Valley groundwater basin on policy matters of the Board associated with SGMA (including the GSP). The Board, TAC, and PAC meetings are open to members of the public, including members of DACs. According to Article 8.6 of the “Bylaws of the Indian Wells Valley Groundwater Authority” (Bylaws), dated May 18, 2017, the IWVGA “shall establish a public website where all pertinent documentation, not specifically protected by law, may be openly inspected by the public.” A copy of the Bylaws is provided as Attachment 3 (“Project Justification”). Pursuant to the Bylaws, all IWVGA meeting materials (including agendas, minutes, resolutions, ordinances, presentations, and packages) are available to the public at the following IWVGA website:

<https://www.kerncounty.com/WaterResources.aspx>.

The IWVGA Board, TAC, and PAC meetings are also regularly attended by members of two Ridgecrest news organizations: the Ridgecrest Daily Independent and the Ridgecrest News Review. News articles regarding key discussions at these public meetings are regularly published and allow for dissemination of Project information to an audience that did not attend the public forums in person.

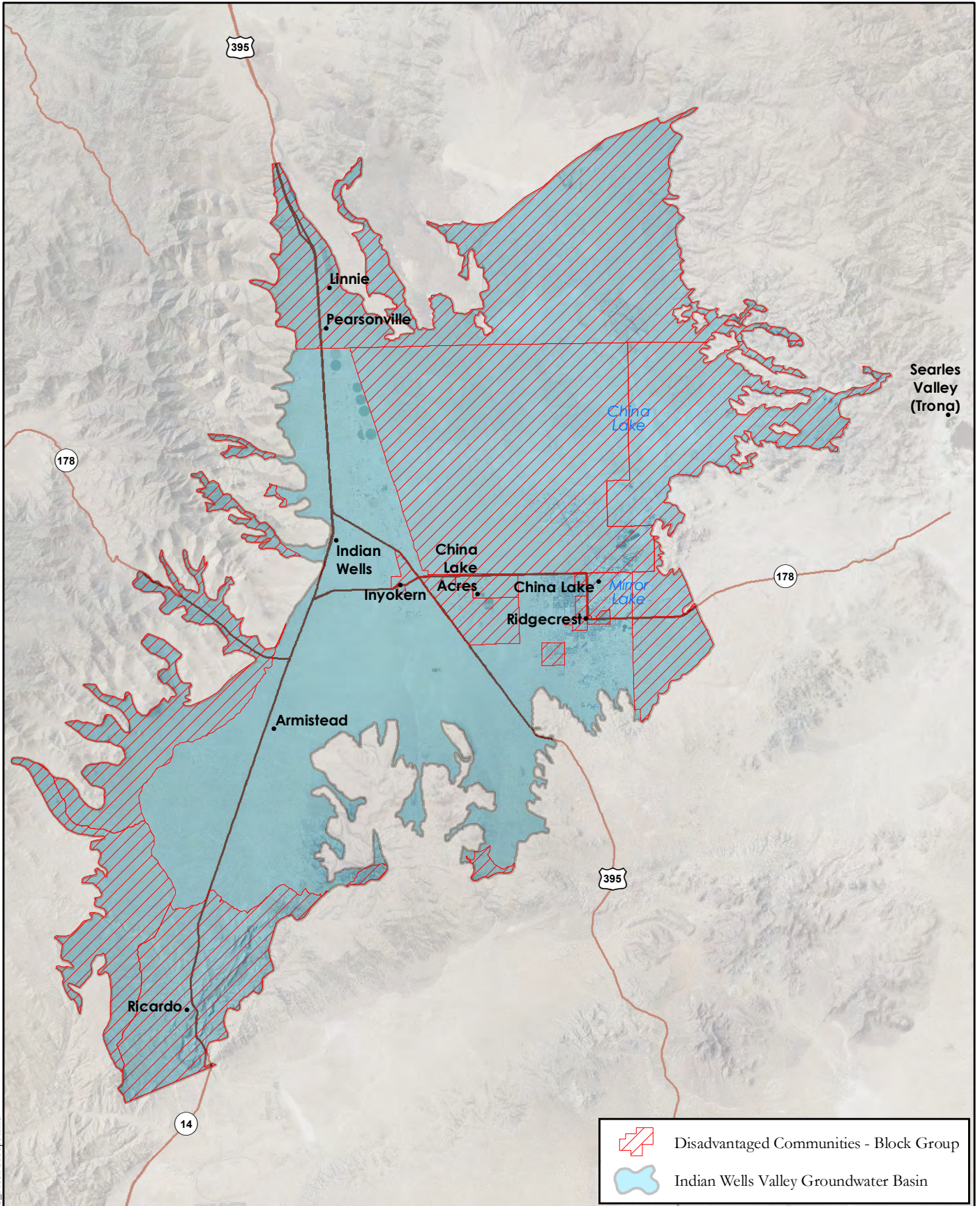
The Bylaws include specific requirements regarding support from DACs. According to Article 5.5 of the Bylaws, **“At least one of the appointed voting PAC members** shall, in addition to representing one of the above listed constituent groups, **shall also represent Disadvantaged Communities** as defined by California Public Resources Code Section 75005(g), by residing or conducting business within a Disadvantaged Community or serving water to a Disadvantaged Community.” During an IWVGA Board meeting on July 20, 2017, the Board approved Resolution 08-17 to add the Inyokern Community Services District as a voting member to the PAC as a DAC representative. A copy of the Resolution is provided as Attachment 7-1. The Inyokern Community Services District provides water service to the census designated place of Inyokern, which is comprised of DACs. In addition, during a PAC meeting on September 13, 2017, the PAC resolved to request the IWVGA Board to add the community of Trona as second DAC representative voting member to the PAC. A copy of the PAC meeting minutes from September 13, 2017 is provided as Attachment 7-2.

During PAC meetings on August 3, 2017 and September 13, 2017, the PAC continued discussions regarding methods and strategies to provide outreach to the public, including DACs, of PAC activities. Several public outreach efforts being discussed include a dedicated Facebook page, a quarterly newspaper column or email newsletter, surveys to determine the level of Project understanding, mailers and educational pamphlets. A copy of the PAC meeting minutes from September 13, 2017 is provided as Attachment 7-2. A copy of the PAC meeting minutes from August 3, 2017 is provided as Attachment 7-3.

Letters of support for the proposed Project have been provided by several stakeholders, including DAC representatives from the Inyokern Community Services District and from the Searles Valley. Copies of these DAC support letters are provided as Attachment 7-4. **<Attachment 7-4 is needed>**

It should also be noted, the Indian Wells Valley groundwater basin is included in the Inyo-Mono “Integrated Regional Water Management Plan” (IRWMP). The Inyo-Mono Regional Water Management Group (RWMG) has previously proposed to assist water suppliers and communities understand SGMA and prepare for implementation through a series of community workshops. In addition, the Inyo-Mono RWMG will assist in outreach to DACs within the Indian Wells Valley groundwater basin area, including Inyokern and the Searles Valley.

**FIGURES - ATTACHMENT 7
(DISADVANTAGED COMMUNITIES)**

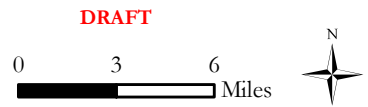


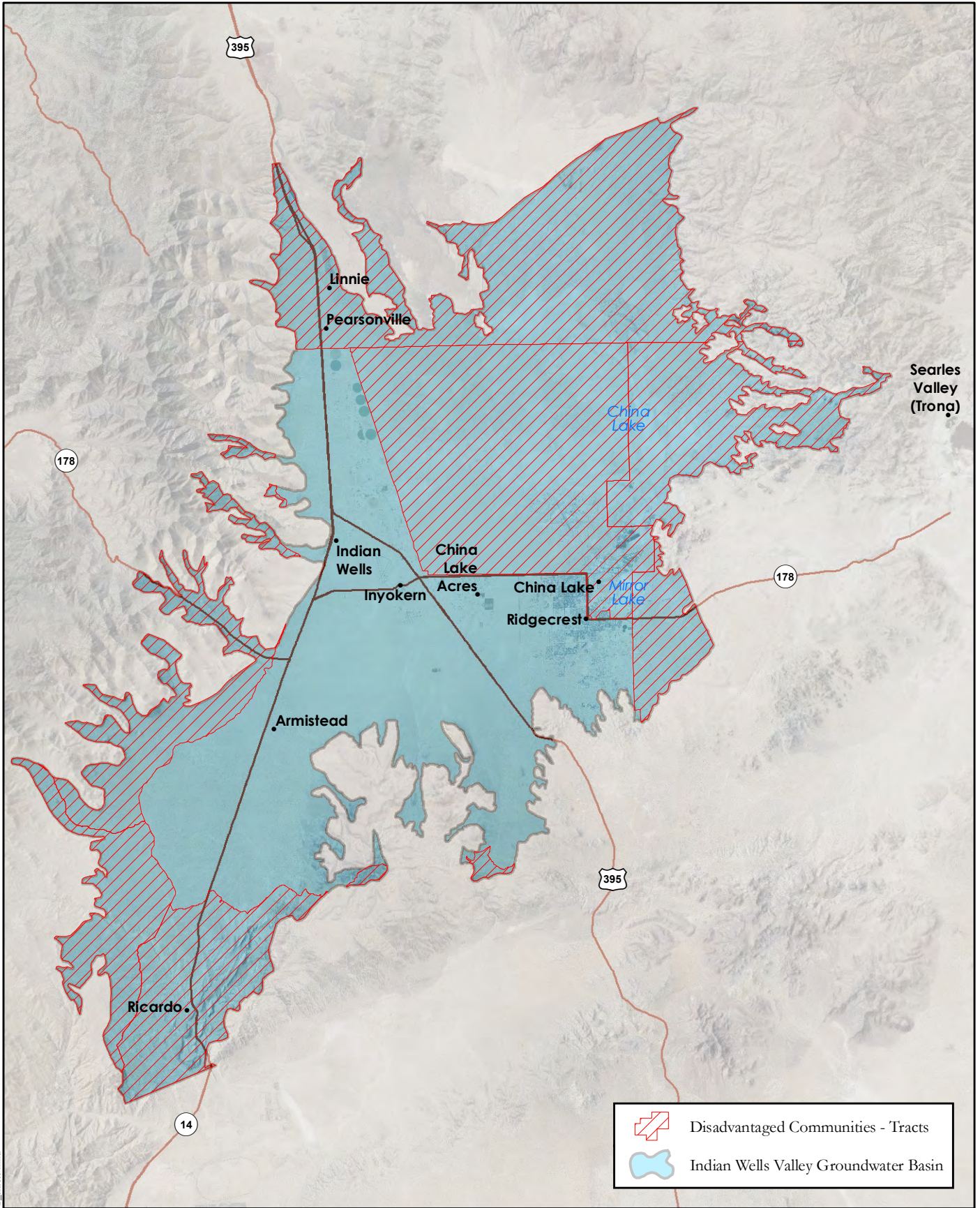
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Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm

**BLOCK GROUPS
DISADVANTAGED COMMUNITIES
INDIAN WELLS VALLEY GROUNDWATER BASIN**





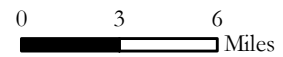
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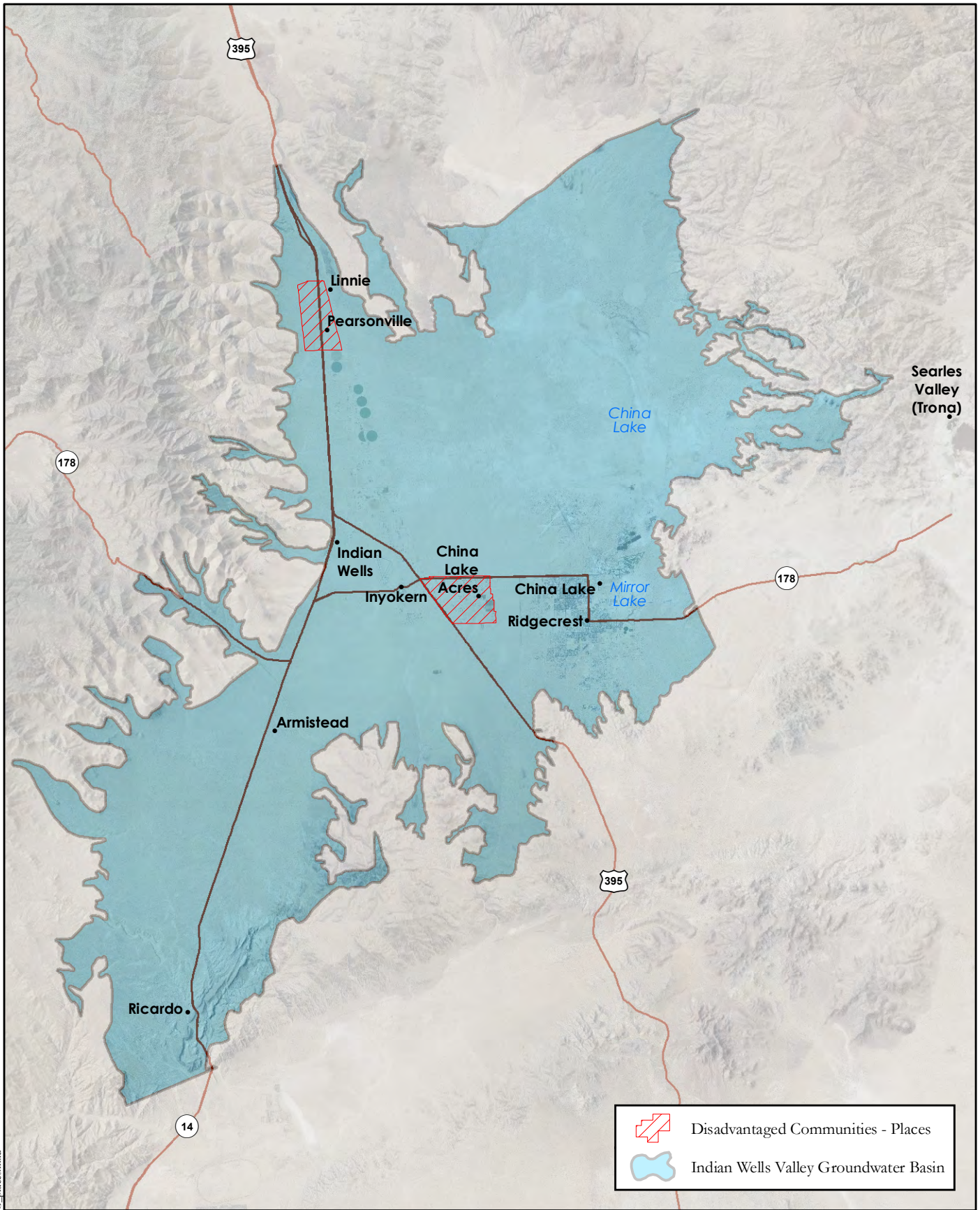




**TRACTS
DISADVANTAGED COMMUNITIES
INDIAN WELLS VALLEY GROUNDWATER BASIN**

Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm

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	Disadvantaged Communities - Places
	Indian Wells Valley Groundwater Basin

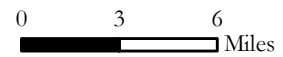
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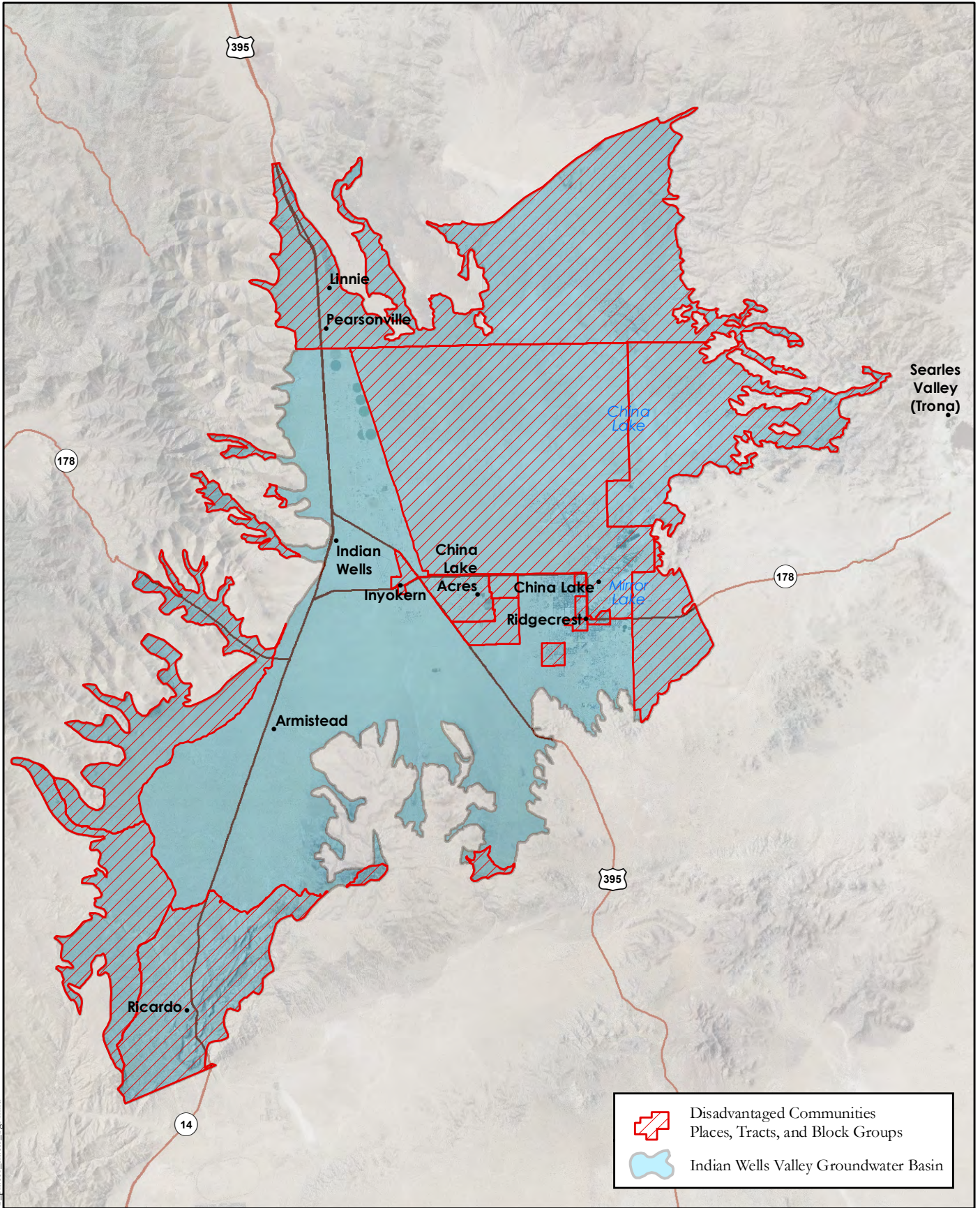




**PLACES
DISADVANTAGED COMMUNITIES
INDIAN WELLS VALLEY GROUNDWATER BASIN**

Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm

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	Disadvantaged Communities Places, Tracts, and Block Groups
	Indian Wells Valley Groundwater Basin

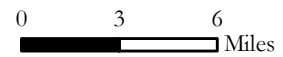
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**PLACES, TRACTS, AND BLOCK GROUPS
DISADVANTAGED COMMUNITIES
INDIAN WELLS VALLEY GROUNDWATER BASIN**

Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm

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INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

ATTACHMENT 7-1
IWVGA RESOLUTION 08-17 (ADDITON OF DAC MEMBERSHIP)

BEFORE THE BOARD OF DIRECTORS INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

In the matter of:

Resolution No. 08-17


RESOLUTION APPOINTING MEMBERS TO THE POLICY ADVISORY COMMITTEE.

I, Lauren Duffy, Secretary of the Board of Directors for the Indian Wells Valley Groundwater Authority, do certify that the following resolution, on motion of Director Brown, seconded by Director Breeden, was duly passed and adopted by the Board of Directors at an official meeting this 21st day of September, 2017, by the following vote:

AYES: Breeden, Brown, Gleason, Kingsley, Page

NOES: _____0_____

ABSENT: _____0_____



Secretary of the Board of Directors
Indian Wells Valley Groundwater Authority

RESOLUTION

Section 1. WHEREAS:

(a) The Bylaws of the Indian Wells Valley Groundwater Authority provide that individuals shall be appointed to the Policy Advisory Committee by Resolution;

Section 2. THEREFORE IT IS RESOLVED by the Board of Directors of the Indian Wells Valley Groundwater Authority, as follows:

1. This Board finds that the recited facts are true and that it has the jurisdiction to consider, approve, and adopt this Resolution,

2. The Board hereby appoints the individuals on the attached Exhibit "A" to the Policy Advisory Committee

EXHIBIT A

Policy Advisory Committee (PAC)

Roster

<u>Category</u>	<u>Name</u>
Large Agriculture	Rodney Stiefater
Large Agriculture	Edward Imsand
Small Agriculture	Patricia Quist
Business Interests	Scott O'Neil
Business Interests	Carol Wilson
Residential Customers of Public Water Agency	Nick Panzer
Residential Customers of Public Water Agency	Renee Westa-Lusk
Domestic Well Owners	West Katzenstein
Domestic Well Owners	Lyle Fisher
Eastern Kern County Resource Conservation District	Donna Thomas
Wholesaler and Industrial User	Steve Godard
Inyokern Community Services District	Tim Carroll
Indian Wells Valley Water District*	Don Zdeba
Department of the Navy*	John Kersey
Bureau of Land Management*	Ryan Klaush

* Non-voting members

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

ATTACHMENT 7-2
PAC MEETING MINUTES (SEPTEMBER 13, 2017)

**INDIAN WELLS VALLEY
GROUNDWATER AUTHORITY
POLICY ADVISORY COMMITTEE**

Indian Wells Valley Water District 500 W. Ridgecrest Blvd. Ridgecrest, CA 93555

MINUTES

Wednesday, September 13, 2017, 6:00 p.m.

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact Alan Christensen at (661) 868-3183. Requests must be made as early as possible and at least one full business day before the start of the meeting. Documents and material relating to an open session agenda items that are provided to the IWVGA PAC Committee prior to a regular meeting will be available for public inspection and copying at Indian Wells Valley Water District, 500 Ridgecrest Blvd, Ridgecrest, CA 93555, or online at www.co.kern.ca.us/groundwater/.

Statements from the Public

The public will be allowed to address the Committee during Public Comments about subjects within the jurisdiction of the IWVGA Committee and that are NOT on the agenda. No action may be taken on off-agenda items unless authorized by law. Questions posed to the Committee may be answered after the meeting or at future meeting. Dialog or extended discussion between the public and the Committee or staff will be limited in accordance with the Brown Act. The Public Comments portion of the meeting shall be limited to three (3) minutes per speaker. Each person is limited to one comment during Public Comments.

All remarks and questions should be addressed to the Committee as a whole and not to any individual member or staff. There will be time after each action item on the agenda to receive comments from the public. Again each speaker will be limited to three (3) minutes. Speakers should be brief and limit their comments to the specific subject being discussed. Persons will be limited to one comment per person unless directed by the Chair.

1. CALL TO ORDER/ROLL CALL

The meeting was called to order by Chair Thomas at 6:00 pm

POLICY ADVISORY COMMITTEE –ROLL CALL

9 Present; 3 absent – Stiefvater, O’Neil, Fisher

Non Voting Members

3 Present; 1 absent – Klaush

Mr. Jim Worth – General Counsel for IWV Board – participated by phone

2. PUBLIC COMMENTS

This time is reserved for the public to address the Committee about matters NOT on the agenda. No action will be taken on non-agenda items unless authorized by law. Comments are limited to three minutes per person.

13 people in the audience. A request was made to have a sign up sheet to acknowledge attendance.

IWVGA PAC COMMITTEE
Minutes of Meeting of September 13, 2107

3. APPROVAL OF MINUTES

Motion by Mr. Godard and second by Mr. Imsand,

Passed - 9 Ayes

Quist, Wilson, Katzenstein, Godard, Thomas, Panzer, Imsand, Carroll, Westa-Lusk

No- none, 3 absent – Stiefvater, O’Neil, Fisher

4. DISCUSSION ON REQUEST TO GSA BOARD TO ALLOW ALTERNATES AND APPOINTMENT OF ALTERNATES FOR PAC MEMBERSHIP.

Mr. Panzer opposes having alternates and believes the Board has discussed this in the past and is not supportive of the change. He further stated that if the alternates are not in the room at all times and for all discussions the process will not be productive.

Ms. Quist stated she did not see the problem with alternates who would also have to do the ethics training and file Form 700s. She stated that sometimes we can’t be at the meeting because of what is happening in our life and she presented the example of harvest time. Her crop may be harvesting but another person with different crops may be able to attend. She also suggested a proctor as an alternate not appointed to serve but who could act on behalf of the appointed person.

Ms. Wilson noted that if she has to be at another meeting for business purposes than having an alternate from her organization (Board of Realtors) to come to the meetings seems reasonable. She noted that staff could have alternates as she thought the attorney for the PAC was Phillip Hall, and yet Mr. Worth was here tonight.

Mr. Katzenstein asked the PAC members if they agree that the Board should pick the alternates with the same process they were selected.

Ms. Thomas noted that some representatives have not been able to attend due to business commitments and that leaves the particular area unrepresented.

Mr. Imsand expressed concern for the continuity of discussion when different representatives attend. He noted this will take time as the Board would have to the bylaws and select the alternates.

Public Comment

Mr. Nugent noted that Mr. Stiefvater is on harvest and also on other boards. He stated that while Mr. Stiefvater is not here, Mr. Nugent is briefing him and keeping him up to date. He offered to be an alternate and noted that being up to date can be handled.

Pat Farris noted that the PAC is where the heavy lifting is going to be. To have that happen, they need to have alternates to have all groups represented. Otherwise they will lose effectiveness if the groups becomes powerless by not having enough people attend.

IWVGA PAC COMMITTEE
Minutes of Meeting of September 13, 2107

Motion by Ms. Wilson and second by Ms Quist
Request the GSA Board to allow alternates and for the Board to appoint alternates for PAC Membership.

Passed – 7 Ayes and 2 Nos
Ayes - Quist, Wilson, Katzenstein, Godard, Thomas, Carroll, Westa-Lusk
No- Panzer, Imsand
3 absent – Stiefvater, O’Neil, Fisher

5. REPORT AND POTENTIAL RECOMMENDATION TO GSA BOARD REGARDING REPRESENTATION FOR COMMUNITY OF TRONA AS A DISADVANTAGED COMMUNITY ON PAC.

Mr. Godard, representing Searles Valley Mineral Company, had reached out to the community of Trona to discuss representation. He is recommending that Ms. Audrey Schuyler ,who works for the municipal water company, and has been active in the community be appointed as the representative for the community of Trona as a disadvantaged community. He introduced Ms. Skylar to the PAC.

Mr.Zdeba commented that there may be a legal reason that Mr. Godard as the representative of Searles Valley Mineral Company who provides water to the community of Trona needs to remain as the designated Trona representative.

Public Comment

Mr. Decker asked the question “ shouldn’t the Municipal Water District have to send a letter requesting to the appointment and be vetted by the GSA Board ?

Motion by Mr. Panzer and second by Ms Wilson
Resolved to Request the GSA Board to add a PAC seat for the community of Trona as a disadvantaged community and to specifically consider the appointment of Ms. Audrey Skylar.

Passed – 8 Ayes and 1 – Abstain
Ayes – Panzer, Quist, Wilson, Katzenstein, Godard, Thomas, Carroll, Westa-Lusk
Abstain - , Imsand
3 absent – Stiefvater, O’Neil, Fisher

IWVGA PAC COMMITTEE
Minutes of Meeting of September 13, 2107

6. CONTINUED DISCUSSION OF POLICY RECOMMENDATIONS BASED ON QUESTIONS from NICK PANZER (Representative – Residential Customer of Public Water Agency)

- A. BY WHAT DATE SHOULD WE OPERATE WITHIN SUSTAINABLE YIELD?
- B. ON WHAT SCHEDULE SHOULD WE MITIGATE OVERDRAFT ACCRUED SINCE 2014?
- C. HOW SHOULD OUR WATER BUDGET PRIORITIZE WATER USE BY USERS AND USES?
- D. HOW SHOULD WE ENFORCE WATER USE PRIORITIES?
- E. HOW AGGRESSIVELY SHOULD WE INVESTIGATE NEW WATER SOURCES?

Mr. Worth, attending by phone, requested this item be moved to the first item on the agenda, after approval of minutes so he could then leave. The Chair agreed to move the item up.

Mr. Worth reported that the agenda item was “illegally placed on the agenda”. He reported the three legal counsels stated that it was put on the agenda outside the direction of the board or review of counsel. He then recommended it not be discussed tonight, and then said, it should not be discussed tonight.

Mr. Panzer asked if Section 5.9 of the bylaws does not give the PAC authority to do this. Mr. Worth confirmed that all the counsels involved in the IWV GSA agreed it did not.

Chair Thomas stated that there was confusion in starting the PAC as the Board directed the PAC start meeting but we did not have a water resource manager. Ms. Thomas and Ms. Oviatt consulted Chairman Gleason and the staff, who directed the Chair and Ms. Oviatt put together agendas.

Ms. Oviatt reconfirmed that the item was not “illegally “ placed on the agenda, as they followed the process directed by Chairman Gleason and the matter was about the GSP. All agendas were emailed out to IWV staff when sent to PAC and this was the first time any comments were made on the agenda content. This matter was brought to the attention of Ms. Oviatt and Chair Thomas by email which was circulated at 3:00 that afternoon – 3 hours before the meeting.

Mr. Worth clarified that there was nothing done wrong, apologized for the use of the word “illegal” and noted that it had not been reviewed and done appropriately as the GSA Board had not approved the items for PAC discussion.

Mr. Panzer asked Mr Worth if Supervisor Gleason had been informed of this direction or other board members. Mr Worth stated that he had not but he had discussions with staff.

Mr. Katzenstein stated that the purpose of the PAC is to provide public input. Why can't we provide this opportunity ?

IWVGA PAC COMMITTEE

Minutes of Meeting of September 13, 2107

Mr. Worth stated the PAC is not authorized to generate questions, rather they need clear direction on what to talk about. Future agenda items will then be sent through the water resource manager and a determination made of appropriate items for the agenda.

Ms. Wilson expressed concern that they could not discuss items and asked that Mr. Worth's direction on Item 6, that he stated that evening, be provided in writing and provided to the PAC. Mr. Worth agreed to provide that.

Additional discussion concerned the new process, shared by Ms. Oviatt, from an email from the IWV staff that the agenda would be produced by the IWV Staff and counsel in consultation with Ms. Thomas and Mr Johnson, Water Resource Manager – Stetson Engineering. As the next Board meeting was September 21, 2017 it was determined that the September 21, 2017 PAC meeting was infeasible as there would still be no direction from the Board to create an agenda. Further IWV staff had indicated in the email direction that PAC meetings should be reduced to once a month.

Therefore the PAC was informed that the following meetings would be cancelled and the official schedule adjusted by the IWV staff – September 21, October 18, December 20, 2017.

Mr. Zdeba shared that the TAC is working on dates that would be compatible with the remaining PAC evening meetings on October 12, 2017, November 2, 2017 and December 6, 2017.

Public Comment

Mr. Decker proposed an alternate motion to ask the GSA Board in writing what are the tasks of the PAC and put that topic on the next PAC agenda.

Mr. Hoffman agreed that getting clarity in the process would be helpful.

Mayor Breeden noted that as Board member on the GSA that the PAC's work is appreciated. No one intended this to happen and we will be resetting and getting beyond this to move forward.

**Motion by Mr. Panzer and second by Mr. Katzenstein
Direct Ms. Thomas to request of the GSA to act on bylaw 5.4 for direction on key policy questions on the GSP for the PAC .**

Passed – 9 Ayes

Ayes – Panzer, Quist, Wilson, Katzenstein, Godard, Thomas, Carroll, Westa-Lusk, Imsand
3 absent – Stiefvater, O'Neil, Fisher

Mr. Worth, acknowledged that he will bring back to staff and counsel and work to have an item put on the September 19, IWV GSA board meeting. Mr. Worth then left the meeting.

7. **CONTINUED DISCUSSION AND RECOMMENDATIONS FOR A STRATEGY FOR OUTREACH TO PUBLIC, TRIBES AND PROPERTY OWNERS.**

Chair Thomas referenced section 353.6 of SGMA which requires an initial notification and section 354.10 Notice and Communication for the plan and stated that the GSA has to send a letter. IWV staff has asked if the PAC would like to submit a paragraph explaining what outreach and representation has already been done for that letter.

Mr. Katzenstein expressed concern that we are being created as a task implementation for outreach and being directed away from providing policy input.

Mr. Panzer noted there has actually been a lot of outreach. However, he has submitted an example of a mailer/postcard that would go to every property owner in the valley and has suggested specific language for action by the PAC. The example was attached to the agenda materials.

Mr. Imsand, Ms. Wilson, Ms Quist and Mr. Zdeba believed that sending the postcard with the suggested wording was premature. Technical answers are needed and further the Board has not clarified what they want the PAC to provide for outreach : A framework (suggest sending out the postcard and who it should go to) or actual product (design the wording of the message)?

Chairman Thomas suggested a public workshop in the evening with a facilitator for public – quarterly or every six months.

Ms. Oviatt offered to create a draft paragraph of outreach efforts for the PAC to consider at the next meeting.

Motion by Ms. Quist and second by Ms. Wilson

Ms. Oviatt to create a summary of what actions have happened for outreach and what plans are pending. Bring draft back for review and place this on the agenda for October 12, 2017, as IWV staff needs for October 13, 2017.

Passed – 9 Ayes

Ayes – Panzer, Quist, Wilson, Katzenstein, Godard, Thomas, Carroll, Westa-Lusk , Imsand
3 absent – Stiefvater, O’Neil, Fisher

Mr. Johnson had provided a data request list for information to include in the Proposition 1 grant application. The PAC members determined that as individual representatives they will be providing letters of commitment and involvement including size of organizations and signatures of members to Mr. Johnson by the middle of October.

IWVGA PAC COMMITTEE

Minutes of Meeting of September 13, 2107

8. FUTURE AGENDA ITEMS DISCUSSION

Presentation of the Danish Study to PAC

9. COMMITTEE MEMBER ANNOUNCEMENTS OR COMMENTS

10. ADJOURN TO NEXT MEETING at 8:15 pm to Next Meeting Thursday, October 12, 2017

13 September, 2017

To:

Indian Wells Valley Groundwater Authority
Policy Advisory Committee (PAC)

From:

C. Lyle Fisher
West E. Katzenstein
Domestic Well Owner (DWO) Representatives on the PAC

Subject:

Domestic Well Owners Recommendations For Agenda Item 7 - 'Continued Discussion And Recommendations For A Strategy For Outreach To Public, Tribes And Property Owners'

Fellow members of the PAC:

Documents provided by the California Department of Water Resources and the Community Water Center provide detailed guidance for public outreach in GSA activities (see 'References' below). These documents summarize statutory requirements for engagement with the public and provide specific relevant references to the GSP Regulations and the Water Code.

The Domestic Well Owner Representatives suggest that the PAC make the following recommendations to the GA Board:

1. Strategies for outreach to the public, tribes, and property owners are adequately described in the GSP guidance documents referenced below. No additional action by the PAC is needed.
2. It would be appropriate for the PAC to approve this recommendation and to encourage the GA Board to follow these DWR guidelines.
3. An effective outreach to domestic well owners and other concerned citizens has been provided for many years by the 'Domestic Well Owners and Concerned Citizen Updates'. See the attached document: **'Background of the Domestic Well Owners and Concerned Citizen Updates'** for more information. The PAC should make the GA Board aware of this long-standing outreach and the example it presents.

References:

1. 'Guidance Document for Groundwater Sustainability Plan - Stakeholder Communication and Engagement', by the California Department of Water Resources
2. 'Guidance Document for Groundwater Sustainability Plan - Engagement with Tribal Communities', by the California Department of Water Resources
3. 'Collaborating for Success: Stakeholder Engagement for Sustainable Groundwater Management Act Implementation', by Community Water Center
4. 'Guidance Document for the Sustainable Management of Groundwater - Preparation Checklist for GSP Submittal', by the California Department of Water Resources
5. 'Guidance Document for the Sustainable Management of Groundwater - Groundwater Sustainability Plan (GSP) Annotated Outline', by the California Department of Water Resources

Background of the Domestic Well Owners and Concerned Citizen Updates

by

C. Lyle Fisher

The "*IWV Well Owners and Concerned Citizens Updates*" is a monthly (sometimes more frequent) summary document that was started decades ago to inform rural citizens of the IWV concerning Valley political and technical groundwater supply and well issues. The specific motivation was to alert Valley citizens of our dwindling groundwater supply and the need to address the obvious supply shortfall.

When the *IWV Domestic Well Owners Association* was formed the Updates became an efficient communication path to our Associates, many of whom were having a hard time keeping up with the myriad meetings involved and the complexities of the issues. The total distribution is not known since the primary distribution is greatly expanded by original recipients forwarding to neighbors, mutual and co-op system officers forwarding to members and by regular posting at rural community bulletin boards. The Updates are certainly reaching a strong majority of the IWV domestic, mutual and co-op well owners.

Through the years, other individuals beyond the original recipients were reading the updates who realized that the information presented was useful to a broader range of "*Concerned Citizens*", and the distribution has steadily grown. The *Concerned Citizen* portion of the distribution list has expanded considerably with the broader GSA issues we now face.

The *Updates* always include summaries and explanations of recent meetings, agendas and dates for upcoming meetings, delivered as a timely, readable package and in a format suitable for smart phone and home computer display. The *Updates* typically include "hot" web links to pertinent reference documents, and other useful information relating to water. The archived *Updates* now total over 250 issues.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

ATTACHMENT 7-3
PAC MEETING MINUTES (AUGUST 3, 2017)

**INDIAN WELLS VALLEY
GROUNDWATER AUTHORITY
POLICY ADVISORY COMMITTEE**

Indian Wells Valley Water District 500 W. Ridgecrest Blvd. Ridgecrest, CA 93555

MINUTES

Thursday, August 3, 2017, 6:00 p.m.

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact Alan Christensen at (661) 868-3183. Requests must be made as early as possible and at least one full business day before the start of the meeting. Documents and material relating to an open session agenda items that are provided to the IWVGA PAC Committee prior to a regular meeting will be available for public inspection and copying at Indian Wells Valley Water District, 500 Ridgecrest Blvd, Ridgecrest, CA 93555, or online at www.co.kern.ca.us/groundwater/.

Statements from the Public

The public will be allowed to address the Committee during Public Comments about subjects within the jurisdiction of the IWVGA Committee and that are NOT on the agenda. No action may be taken on off-agenda items unless authorized by law. Questions posed to the Committee may be answered after the meeting or at future meeting. Dialog or extended discussion between the public and the Committee or staff will be limited in accordance with the Brown Act. The Public Comments portion of the meeting shall be limited to three (3) minutes per speaker. Each person is limited to one comment during Public Comments.

All remarks and questions should be addressed to the Committee as a whole and not to any individual member or staff. There will be time after each action item on the agenda to receive comments from the public. Again each speaker will be limited to three (3) minutes. Speakers should be brief and limit their comments to the specific subject being discussed. Persons will be limited to one comment per person unless directed by the Chair.

1. CALL TO ORDER/ROLL CALL

The meeting was called to order by Chair Thomas at 6:05 pm.

Policy Advisory Committee – ROLL CALL

7 Present: 4 absent – Rodney Stiefvater, Edward Imsand, Scott O’Neil, Renee Westa-Lusk

Non- Voting Members

3 Present: 1 absent – Ryan Klaush

2. PUBLIC COMMENTS

Mr. Nugent announced that Mr. Stiefvater was absent due to harvest and asked if the Board had taken action on allowing alternatives.

3. APPROVAL OF MINUTES

Motion by Mr. Panzer and second by Mr. Fisher

Passed – 7 Ayes – Quist, O’Neil, Wilson, Panzer, Katzenstein, Fisher, Thomas, Godard

No – none , 4 absent

4. DISCUSSION OF POLICY RECOMMENDATIONS BASED ON QUESTIONS FROM NICK PANZER :

- A. BY WHAT DATE SHOULD WE OPERATE WITHIN SUSTAINABLE YIELD
- B. ON WHAT SCHEDULE SHOULD WE MITIGATE OVERDRAFT ACCRUED SINCE 2014?
- C. HOW SHOULD OUR WATER BUDGET PRIORITIZE WATER USE BY USERS AND USES?
- D. HOW SHOULD WE ENFORCE WATER USE PRIORITIES ?
- E. HOW AGGRESSIVELY SHOULD WE INVESTIGATE NEW WATER SOURCES?

Mr. Panzer made a presentation of the submitted agenda request and handout. Recommended that results be created and submitted to TAC, GAS and Water Resources Manager by end of September. He reported that the TAC today adopted the number of priority of importing water. Other materials (attached) were handed out and discussed.

Ms. Oviatt suggested a matrix with the various policy recommendations submitted and discussed be created for the next meeting and this matter be continued to next meeting.

PUBLIC COMMENTS –

Mr. Nugent suggested we add a F-funding, G-outreach

Ms. Decker believes that enforcement policies need to be discussed. Mr. Kelso thinks the PAC is on track and the TAC is off track. Ms. Merk wants the handouts available to the public.

Ms. Oviatt requested that materials that are brought by PAC members will be provided to the public and included in minutes if PAC member bring at least 15 copies. The agenda and minutes which include the materials, will be posted online. And two public copies of the PAC notebook materials will be placed on the back table each meeting for review.

Motion by Mr. Godard and second by Ms. Quist to put this on the agenda for next meeting with a matrix for discussions and to use to organize discussion.

Passed – 7 Ayes – Quist, O’Neil, Wilson, Panzer, Katzenstein, Fisher, Thomas, Godard

No – none , 4 absent

5. PRESENTATION FROM KENNEDY/ JENKS CONSULTANTS ON OPPORTUNITIES AND DEADLINES FOR GRANT FUNDING FOR GSP PROJECTS AND PLANNING.

Kennedy/Jenks Consultants made a powerpoint presentation which is attached. They recommended they be retained to assist with the application. And recommended the Board have an annual funding plan and prioritized plans. Ms. Thomas discussed here handout on EKCRD ideas for potential projects.

6. PROPOSED 2017 PAC SCHEDULE FOR REFERRAL TO GSA FOR ADOPTION.

Motion by Mr. Godard and second by Ms. Quist to approve the proposed schedule and refer to the GSA for adoption.

Passed – 7 Ayes – Quist, O’Neil, Wilson, Panzer, Katzenstein, Fisher, Thomas, Godard

No – none , 4 absent

7. DISCUSSION AND RECOMMENDATIONS FOR A STRATEGY FOR OUTREACH TO PUBLIC, TRIBES AND PROPERTY OWNERS.

Ms. Wilson reported as a non-voting member of Board of Realtors to update them on PAC Activities. Mr. Katzenstein and Mr. Fisher is working with the domestic well owners. Mr. Godard will be meeting with Trona to bring recommendations to GSA board. Ms. Thomas is doing outreach to Inyokern CSD. Ms. Quist has a small agricultural group with horse ranchers. Suggestions for outreach included Facebook page for water and dedicated to the GSA, quarterly newspaper column or email newsletter, contact Farm Bureau for outreach, surveys to determine level of understanding, mailers to guarantee that at least every person gets one mailer to educate them on what this means and how to get information, paying for ads on facebook, keep the Inyo mono IRWMP apprised. Funding for the efforts should focus on what grants we need for outreach and disadvantaged communities. The gaps that were identified: City of Ridgecrest residents, small business owners, Trona Municipal Advisory Council (MAC). Chair Thomas thanked the newspaper for attending and writing articles.

PUBLIC COMMENTS –

Mr. Nugent offered \$1500 for website development

Ms. Decker asked how does a disadvantaged community grant benefit the sustainability of the groundwater basin?

Ms. Mead acknowledged the amount of outreach and public involvement being done at the PAC meetings.

Motion by Mr. Godard and second by Ms. Quist to continue the item to the next agenda

Passed – 7 Ayes – Quist, O’Neil, Wilson, Panzer, Katzenstein, Fisher, Thomas, Godard

No – none , 4 absent

8. FUTURE AGENDA ITEMS DISCUSSION

Danish Study report presentation

Disadvantaged community report on Trona and recommendation to Board.

9. COMMITTEE MEMBER ANNOUNCEMENTS OR COMMENTS

None

10. ADJOURN to next scheduled meeting – August 24, 2017 6 pm

Motion by Ms. Quist and second by Ms. Wilson

11. Passed – 7 Ayes – Quist, O’Neil, Wilson, Panzer, Katzenstein, Fisher, Thomas, Godard

12. No – none , 4 absent Adjourned at 8:15 pm.

ATTACHMENT 7-4
DAC SUPPORT LETTERS

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

“ATTACHMENT TAB”

ATTACHMENT 8

ECONOMICALLY DISTRESSED AREAS

1.0 INTRODUCTION

Pursuant to DWR’s “2015 Program Guidelines” for the Sustainable Groundwater Planning Grant Program, dated October 2015, an economically distressed area (EDA) is “a municipality with a population of 20,000 persons or less, a rural county, or a reasonably isolated and divisible segment of a larger municipality where the segment of the population is 20,000 persons or less, with an annual median household income that is less than 85 percent of the statewide median household income, and with one or more of the following conditions as determined by the department: (1) financial hardship, (2) Unemployment rate at least 2 percent higher than the statewide average, or (3) low population density. (Water Code §79702.(k))”

The proposed Project area covers the Indian Wells Valley groundwater basin which encompasses many diverse communities, and many of those communities include substantial areas that meet the definition of an EDA. Basin overdraft and the need to bring the basin into a sustainable balance are critical water supply issues for EDAs that the proposed Project will address. As discussed previously, the Indian Wells Valley groundwater basin is identified by DWR as a critically overdrafted basin of Medium Priority, and as such, the GSA is required to develop the GSP (proposed Project), in compliance with SGMA. Basin resources are currently not sustainably managed and overdraft conditions have existed since the 1960s as a result of groundwater pumping exceeding the natural basin yield. The proposed Project will develop sustainable management actions that culminate in the absence of undesirable results within 20 years in order to provide long-term sustainable groundwater management within the basin, including EDAs.

2.0 METHODOLOGY TO DETERMINE EDAS

The identification of EDAs and an evaluation of Project benefits to the EDAs in the proposed Project area were prepared based on an approach recommended by DWR (in the Final Proposal Solicitation Package, dated September 2017) using information from the following DWR website:

<https://gis.water.ca.gov/app/edas/>

The DWR website includes an interactive mapping tool which assists in identifying EDAs based on US Census “block groups”, “tracts”, and “places” boundaries and US Census American Community Survey data from 2010 through 2014. Block groups, tracts, and places are based on the following definitions:

- Block groups are statistical divisions of census tracts and are generally defined to contain between 600 and 3,000 people;
- Tracts are small, relatively permanent statistical subdivisions of a county and generally have a population size between 1,200 and 8,000 people;
- Places can include incorporated places (e.g. Cities, boroughs, towns, or villages) or census designated places (e.g. unincorporated communities)

To identify and map the EDAs within the proposed Project area, Geographical Information Systems (GIS) information from the DWR website was downloaded, and the layers used to identify EDAs within the Indian Wells Valley groundwater basin were extracted. Using the GIS information, the following figures were prepared and are attached:

- Figure 8-1 shows the combination of the following layers (Layer 1) within the Indian Wells Valley groundwater basin:
 - (Municipality Tracts) US Census tracts identified as having both: a population that is less than or equal to 20,000 people; and less than 85 percent of the State's median household income.
 - (Municipality Block Groups) US Census block groups identified as having both: a population that is less than or equal to 20,000 people; and less than 85 percent of the State's median household income.
 - (Municipality Census Places) US Census places identified as having both: a population that is less than or equal to 20,000 people; and less than 85 percent of the State's median household income.
 - (Municipality Tracts) US Census tracts identified as having both: a population that is less than or equal to 20,000 people; and less than 85 percent of the State's median household income.

- (Rural Counties) "Rural Counties" as designated by the U.S Office of Management and Budget

- Figure 8-2 shows the combination of the following layers (Layer 2) within the Indian Wells Valley groundwater basin:
 - (Low Population Density Tracts) US Census tracts identified as having low population densities with less than or equal to 100 persons per square mile.
 - (Low Population Density Block Groups) US Census block groups identified as having low population densities with less than or equal to 100 persons per square mile.
 - (Low Population Density Places) US Census places identified as having low population densities with less than or equal to 100 persons per square mile.
 - (Unemployment Rate Census Place) US Census places identified by the California Employment Development Department as having unemployment rates that are at least 2 percent higher than the statewide average.
 - (Unemployment Rate Counties) Counties identified by the California Employment Development Department as having unemployment rates that are at least 2 percent higher than the statewide average.

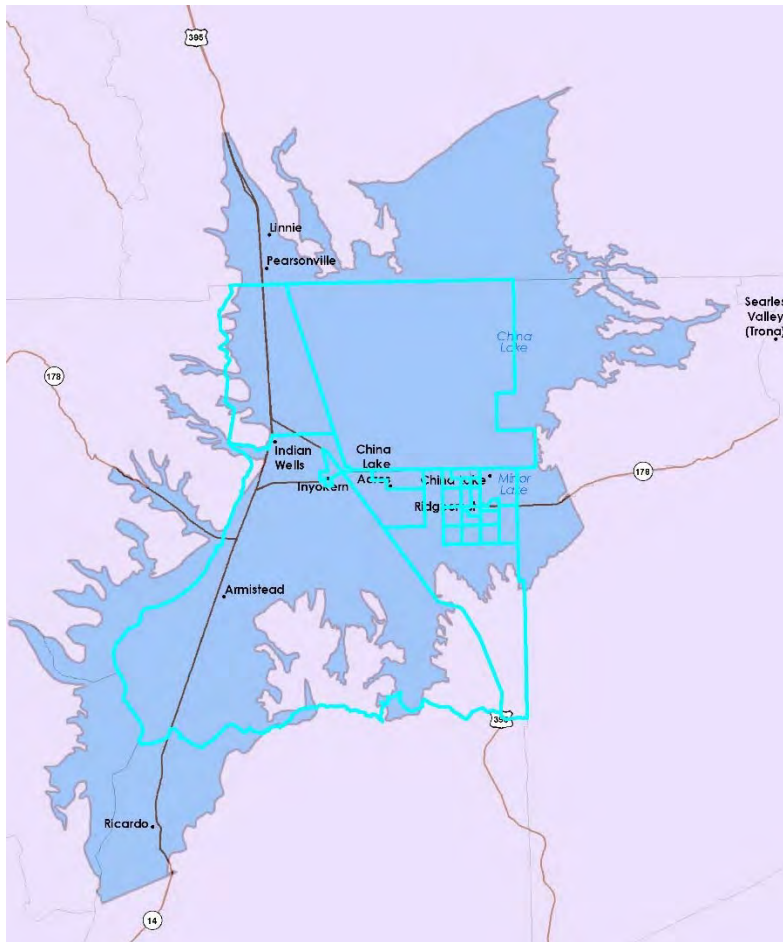
- Figure 8-3 shows the combined EDAs (the overlapping areas of Layers 1 and 2, in Figures 8-1 and 8-2, respectively) within the Indian Wells Valley groundwater basin

Figure 8-3 shows the combined EDAs identified within the Indian Wells Valley groundwater basin. EDAs located within the Indian Wells Valley groundwater basin include portions of the City of Ridgecrest and portions or all of the census designated places of China Lake Acres, Inyokern, and Pearsonville; and the unincorporated communities of Linnie, Ricardo, and China Lake. Based on GIS calculations, the total area of EDAs within the basin (about 258,000 acres) covers approximately 68 percent of the Indian Wells Valley groundwater basin (about 382,000 acres). The EDAs identified within the Indian Wells Valley groundwater basin overlap most of the Disadvantaged Communities (DACs) identified in Attachment 7 ("Disadvantaged Communities"). In addition to EDAs/DACs within the basin, the Searles Valley (which includes the

unincorporated community of Trona) comprised of EDAs/DACs and is located approximately three (3) miles east of the basin boundaries. The Searles Valley has depended on basin groundwater supplies since 1918. The preparation of the Proposed project will benefit EDAs/DACs within the Indian Wells Valley groundwater basin as well as within the Searles Valley.

The total population within the Indian Wells Valley groundwater basin in the year 2015 was approximately 33,600 based on US Census Bureau block group population data that was extrapolated from 2010 US Census data. The total population also includes the addition of communities in the Searles Valley located east of the basin boundaries. Based on the US Census Bureau block data, as well as population data provided on the DWR website, the total EDA population residing within the basin and in the Searles Valley is approximately 13,000. The total EDA population is approximately 39 percent of the total population within the Indian Wells Valley groundwater basin.

(Location of US Census Block Groups used to Estimate Population)



3.0 EDA PROJECT SUPPORT AND OUTREACH

The proposed Project includes the following EDA/DAC outreach and support, which are discussed further below:

- Public IWVGA Board meetings
- Public Technical Advisory Committee (IWVGA) meetings
- Public Policy Advisory Committee (IWVGA) meetings
- Website posting of meeting materials
- Local news reporting
- Inclusion of EDA/DAC representatives as voting members in the Policy Advisory Committee

- Discussion of public outreach efforts during Policy Advisory Committee meetings
- Letters of support from EDAs/DACs

The IWVGA conducts regular Board meetings (on a monthly basis) to support the development of the Groundwater Sustainability Plan (GSP) for the Indian Wells Valley groundwater basin (i.e. proposed Project). The IWVGA has created a Technical Advisory Committee (TAC) which meets on a monthly basis and will assist in the development of the GSP. In addition, the IWVGA Board has created a Policy Advisory Committee (PAC) which meets on a monthly basis and provides representation to all types of water users in the Indian Wells Valley groundwater basin on policy matters of the Board associated with SGMA (including the GSP). The Board, TAC, and PAC meetings are open to members of the public, including members of DACs. According to Article 8.6 of the “Bylaws of the Indian Wells Valley Groundwater Authority” (Bylaws), dated May 18, 2017, the IWVGA “shall establish a public website where all pertinent documentation, not specifically protected by law, may be openly inspected by the public.” A copy of the Bylaws is provided as Attachment 3 (“Project Justification”). Pursuant to the Bylaws, all IWVGA meeting materials (including agendas, minutes, resolutions, ordinances, presentations, and packages) are available to the public at the following IWVGA website:

<https://www.kerncounty.com/WaterResources.aspx>.

The IWVGA Board, TAC, and PAC meetings are also regularly attended by members of two Ridgecrest news organizations: the Ridgecrest Daily Independent and the Ridgecrest News Review. News articles regarding key discussions at these public meetings are regularly published and allow for dissemination of Project information to an audience that did not attend the public forums in person.

The Bylaws include specific requirements regarding support from DACs. According to Article 5.5 of the Bylaws, “**At least one of the appointed voting PAC members** shall, in addition to representing one of the above listed constituent groups, **shall also represent Disadvantaged Communities** as defined by California Public Resources Code Section 75005(g), by residing or conducting business within a Disadvantaged Community or serving water to a Disadvantaged Community.” During an IWVGA Board meeting on July 20, 2017, the Board approved Resolution 08-17 to add the Inyokern Community Services District as a voting member to the PAC as a DAC representative. A copy of the Resolution is provided in

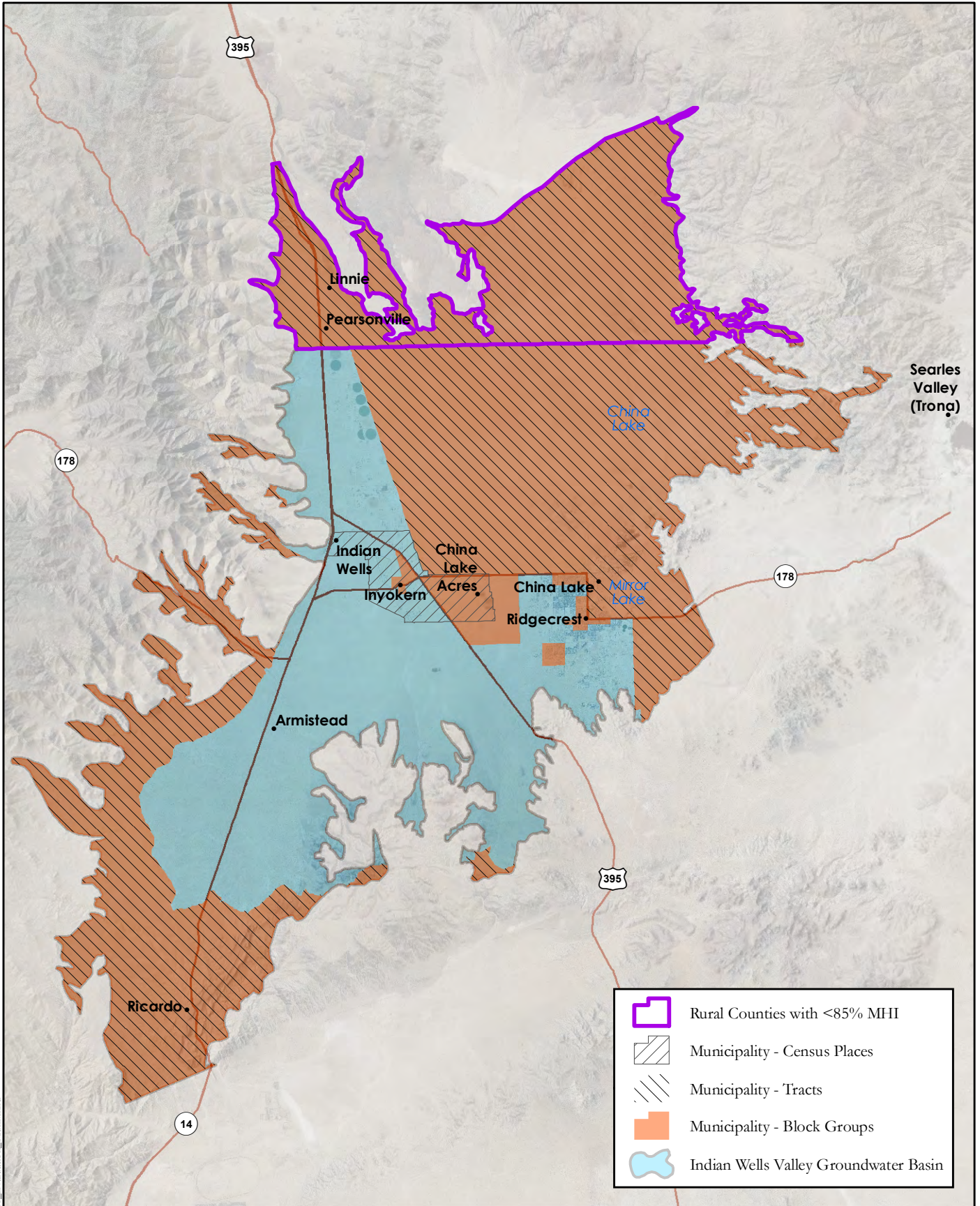
Attachment 7 (“Disadvantaged Communities”). The Inyokern Community Services District provides water service to the census designated place of Inyokern, which is comprised of EDAs and DACs. In addition, during a PAC meeting on September 13, 2017, the PAC resolved to request the IWVGA Board to add the community of Trona as second DAC representative voting member to the PAC. A copy of the PAC meeting minutes from September 13, 2017 is provided in Attachment 7 (“Disadvantaged Communities”).

During PAC meetings on August 3, 2017 and September 13, 2017, the PAC continued discussions regarding methods and strategies to provide outreach to the public, including EDAs and DACs, of PAC activities. Several public outreach efforts being discussed include a dedicated Facebook page, a quarterly newspaper column or email newsletter, surveys to determine the level of Project understanding, mailers and educational pamphlets. Copies of these PAC meeting minutes are provided in Attachment 7 (“Disadvantaged Communities”).

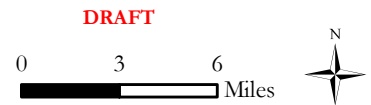
Letters of support for the proposed Project have been provided by several stakeholders, including EDA/DAC representatives from the Inyokern Community Services District and from the Searles Valley. Copies of these EDA/DAC support letters are provided in Attachment 7 (“Disadvantaged Communities”).

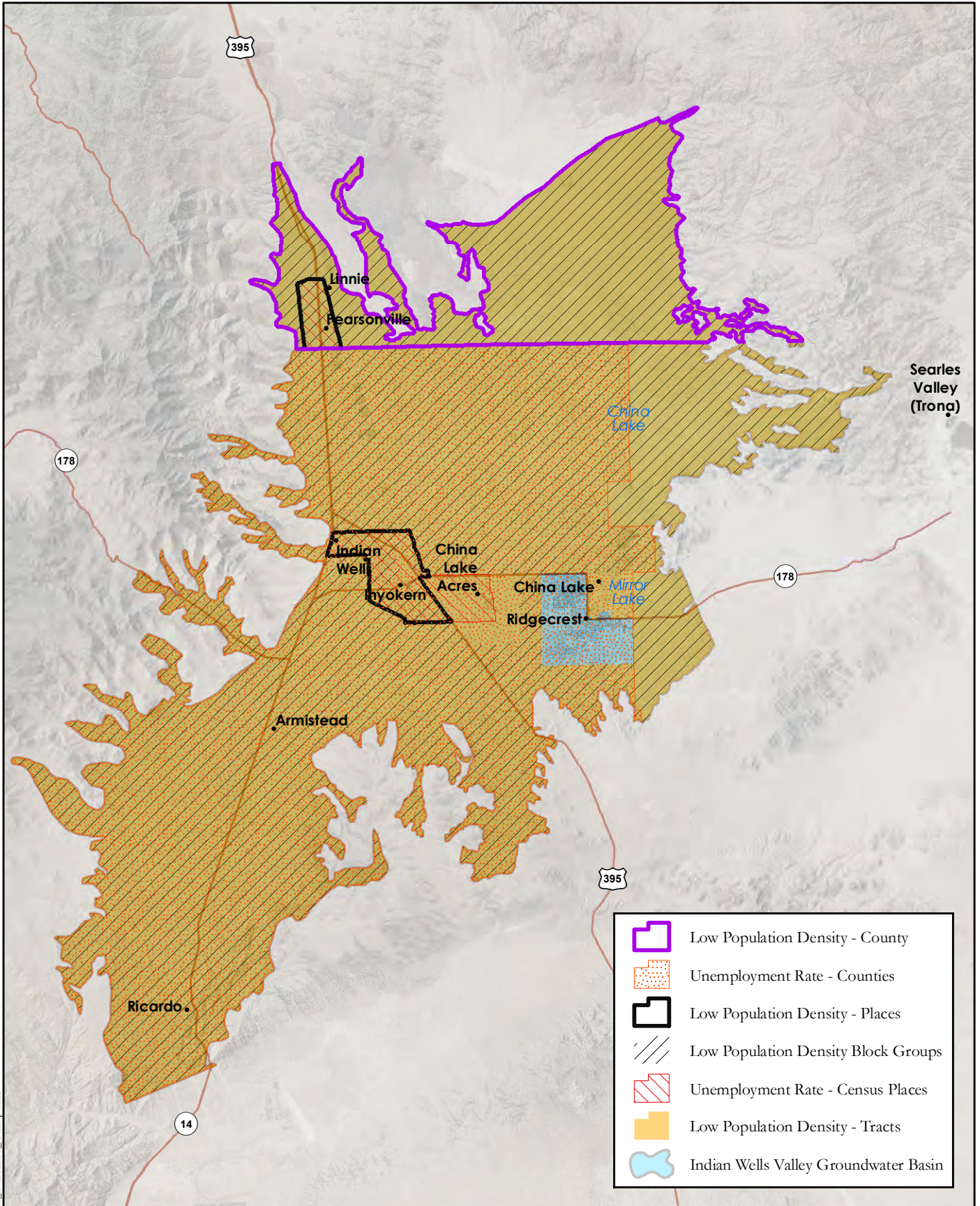
It should also be noted, the Indian Wells Valley groundwater basin is included in the Inyo-Mono “Integrated Regional Water Management Plan” (IRWMP). The Inyo-Mono Regional Water Management Group (RWMG) has previously proposed to assist water suppliers and communities understand SGMA and prepare for implementation through a series of community workshops. In addition, the Inyo-Mono RWMG will assist in outreach to EDAs and DACs within the Indian Wells Valley groundwater basin area, including Inyokern and the Searles Valley.

**FIGURES - ATTACHMENT 8
(ECONOMICALLY DISTRESSED AREAS)**



LAYER 1
MUNICIPALITY WITH ≤ 20,000 PERSONS AND
RURAL COUNTIES WITH A MEDIAN HOUSEHOLD
INCOME ≤ 85% STATE AVERAGE
INDIAN WELLS VALLEY GROUNDWATER BASIN





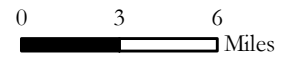
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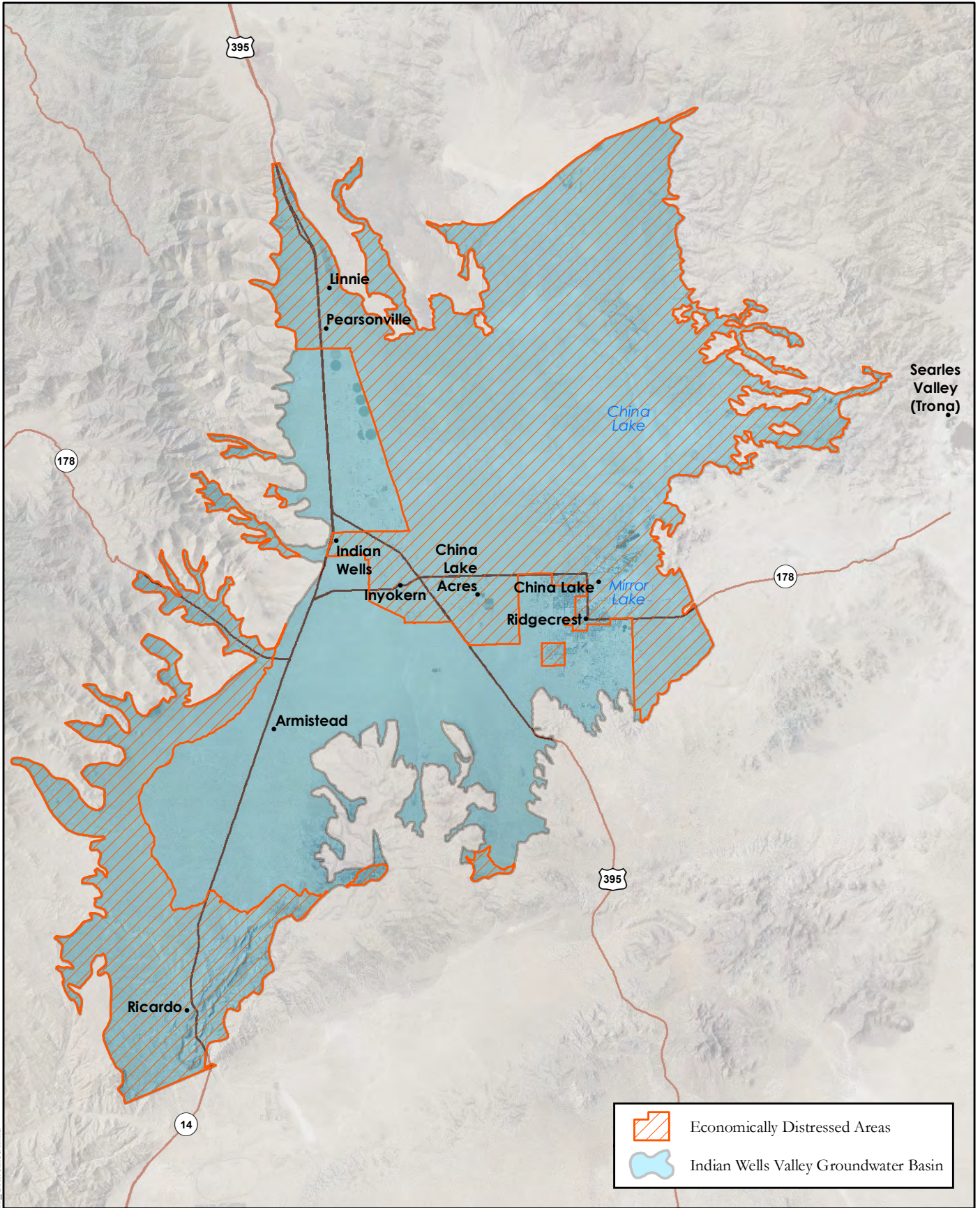


LAYER 2
UNEMPLOYMENT ≥ 2% STATE AVERAGE
AND LOW POPULATION DENSITY AREAS
INDIAN WELLS VALLEY GROUNDWATER BASIN

Source: http://www.water.ca.gov/irwm/grants/resources_eda.cfm

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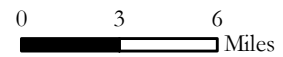
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**ECONOMICALLY DISADVANTAGED AREAS
INDIAN WELLS VALLEY GROUNDWATER BASIN**

Source: http://www.water.ca.gov/irwm/grants/resources_eda.cfm

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INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM PROPOSAL

“ATTACHMENT TAB”

ATTACHMENT 9

**SEVERELY DISADVANTAGED
COMMUNITIES**

1.0 INTRODUCTION

Pursuant to DWR's "2015 Program Guidelines" for the Sustainable Groundwater Planning Grant Program, dated October 2015, a severely disadvantaged community (SDAC) is "a community with an annual median household income that is less than 60 percent of the Statewide annual median household income (Water Code §79702.(v) which cross references to Health and Safety Code §116760.20)"

The proposed Project area covers the Indian Wells Valley groundwater basin which encompasses many diverse communities, and many of those communities include substantial areas that meet the definition of an SDAC. Basin overdraft and the need to bring the basin into a sustainable balance are critical water supply issues for SDAC s that the proposed Project will address. As discussed previously, the Indian Wells Valley groundwater basin is identified by DWR as a critically overdrafted basin of Medium Priority, and as such, the GSA is required to develop the GSP (proposed Project), in compliance with SGMA. Basin resources are currently not sustainably managed and overdraft conditions have existed since the 1960s as a result of groundwater pumping exceeding the natural basin yield. The proposed Project will develop sustainable management actions that culminate in the absence of undesirable results within 20 years in order to provide long-term sustainable groundwater management within the basin which will enhance reliability of water supplies for SDAC s.

2.0 METHODOLOGY TO DETERMINE SDACS

The identification of SDACs and an evaluation of Project benefits to the SDACs in the proposed Project area were prepared based on an approach recommended by DWR (in the Final Proposal Solicitation Package, dated September 2017) using information from the following DWR website:

http://www.water.ca.gov/irwm/grants/resources_dac.cfm

The DWR website includes an interactive mapping tool which identifies SDACs based on US Census "block groups", "tracts", and "places" boundaries and US Census American Community Survey data from 2010 through 2014. Block groups, tracts, and places are based on the following definitions:

- Block groups are statistical divisions of census tracts and are generally defined to contain between 600 and 3,000 people;
- Tracts are small, relatively permanent statistical subdivisions of a county and generally have a population size between 1,200 and 8,000 people;
- Places can include incorporated places (e.g. Cities, boroughs, towns, or villages) or census designated places (e.g. unincorporated communities)

To identify and map the SDACs within the proposed Project area, Geographical Information Systems (GIS) information from the DWR website was downloaded, and the layers representing DACs within the Indian Wells Valley groundwater basin were extracted. The GIS data represents the DACs with an annual median household income (MHI) less than 60 percent of the state average. Using the GIS information, the following figures were prepared and are attached:

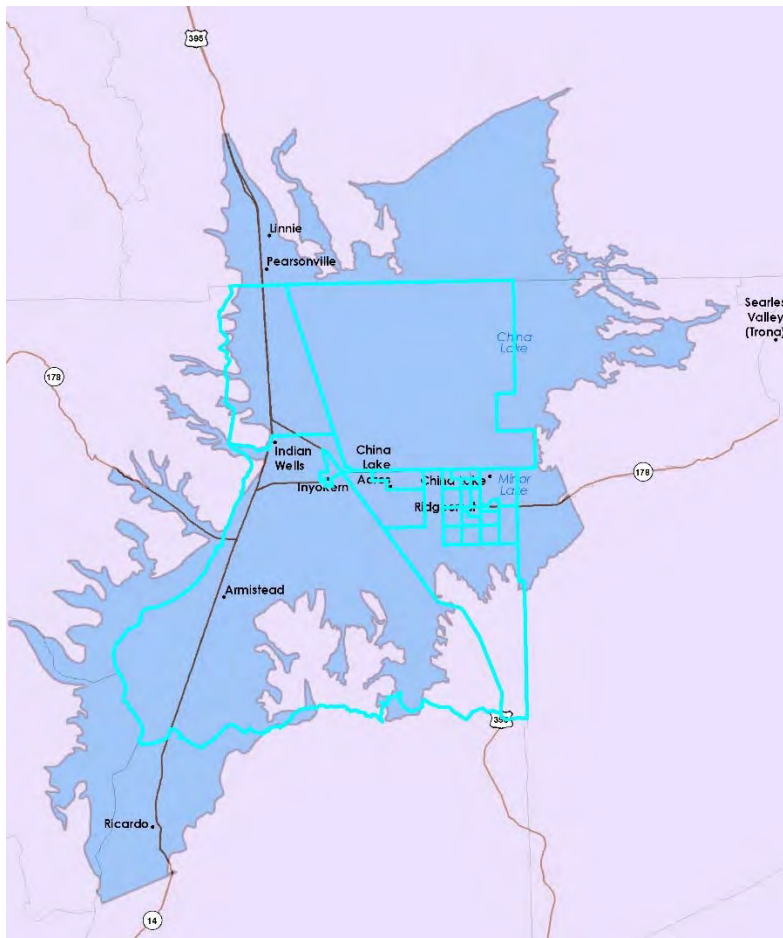
- [Figure 9-1](#) shows SDAC block groups within the Indian Wells Valley groundwater basin;
- [Figure 9-2](#) shows SDAC tracts within the Indian Wells Valley groundwater basin;
- [Figure 9-3](#) shows SDAC places within the Indian Wells Valley groundwater basin;
- [Figure 9-4](#) shows the total SDACs (block groups, tracts, and places) within the Indian Wells Valley groundwater basin

Figure 9-4 shows the total SDACs identified within the Indian Wells Valley groundwater basin. DACs located within the Indian Wells Valley groundwater basin include portions of the City of Ridgecrest and portions or all of the census designated places of China Lake Acres, Inyokern, and Pearsonville; and the unincorporated communities of Linnie, Ricardo, and China Lake. Based on GIS calculations, the total area of DACs within the basin (about 251,000 acres) covers approximately 66 percent of the Indian Wells Valley groundwater basin (about 382,000 acres). The SDACs identified within the Indian Wells Valley groundwater basin overlap most of the Disadvantaged Communities (DACs) identified in Attachment 7 (“Disadvantaged Communities”). In addition to SDACs/DACs within the basin, the Searles Valley (which includes the unincorporated community of Trona) comprised of SDACs/DACs and is located approximately three (3) miles east of the basin boundaries. The Searles Valley has depended on basin groundwater

supplies since 1918. The preparation of the Proposed project will benefit SDACs/DACs within the Indian Wells Valley groundwater basin as well as within the Searles Valley.

The total population within the Indian Wells Valley groundwater basin in the year 2015 was approximately 33,600 based on US Census Bureau block group population data that was extrapolated from 2010 US Census data. The total population also includes the addition of communities in the Searles Valley located east of the basin boundaries. Based on the US Census Bureau block data, as well as population data provided on the DWR website, the total SDAC population residing within the basin and in the Searles Valley is approximately 13,000. The total SDACs population is approximately 39 percent of the total population within the Indian Wells Valley groundwater basin.

(Location of US Census Block Groups used to Estimate Population)



3.0 SDAC PROJECT SUPPORT AND OUTREACH

The proposed Project includes the following SDAC/DAC outreach and support, which are discussed further below:

- Public IWVGA Board meetings
- Public Technical Advisory Committee (IWVGA) meetings
- Public Policy Advisory Committee (IWVGA) meetings
- Website posting of meeting materials
- Local news reporting
- Inclusion of SDAC/DAC representatives as voting members in the Policy Advisory Committee
- Discussion of public outreach efforts during Policy Advisory Committee meetings
- Letters of support from SDACs/DACs

The IWVGA conducts regular Board meetings (on a monthly basis) to support the development of the Groundwater Sustainability Plan (GSP) for the Indian Wells Valley groundwater basin (i.e. proposed Project). The IWVGA has created a Technical Advisory Committee (TAC) which meets on a monthly basis and will assist in the development of the GSP. In addition, the IWVGA Board has created a Policy Advisory Committee (PAC) which meets on a monthly basis and provides representation to all types of water users in the Indian Wells Valley groundwater basin on policy matters of the Board associated with SGMA (including the GSP). The Board, TAC, and PAC meetings are open to members of the public, including members of DACs. According to Article 8.6 of the “Bylaws of the Indian Wells Valley Groundwater Authority” (Bylaws), dated May 18, 2017, the IWVGA “shall establish a public website where all pertinent documentation, not specifically protected by law, may be openly inspected by the public.” A copy of the Bylaws is provided as Attachment 3 (“Project Justification”). Pursuant to the Bylaws, all IWVGA meeting materials (including agendas, minutes, resolutions, ordinances, presentations, and packages) are available to the public at the following IWVGA website:

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The IWVGA Board, TAC, and PAC meetings are also regularly attended by members of two Ridgecrest news organizations: the Ridgecrest Daily Independent and the Ridgecrest News Review. News articles regarding key discussions at these public meetings are regularly published and allow for dissemination of Project information to an audience that did not attend the public forums in person.

The Bylaws include specific requirements regarding support from DACs. According to Article 5.5 of the Bylaws, **“At least one of the appointed voting PAC members** shall, in addition to representing one of the above listed constituent groups, **shall also represent Disadvantaged Communities** as defined by California Public Resources Code Section 75005(g), by residing or conducting business within a Disadvantaged Community or serving water to a Disadvantaged Community.” During an IWVGA Board meeting on July 20, 2017, the Board approved Resolution 08-17 to add the Inyokern Community Services District as a voting member to the PAC as a DAC representative. A copy of the Resolution is provided in Attachment 7 (“Disadvantaged Communities”). The Inyokern Community Services District provides water service to the census designated place of Inyokern, which is comprised of SDACs and DACs. In addition, during a PAC meeting on September 13, 2017, the PAC resolved to request the IWVGA Board to add the community of Trona as second DAC representative voting member to the PAC. A copy of the PAC meeting minutes from September 13, 2017 is provided in Attachment 7 (“Disadvantaged Communities”).

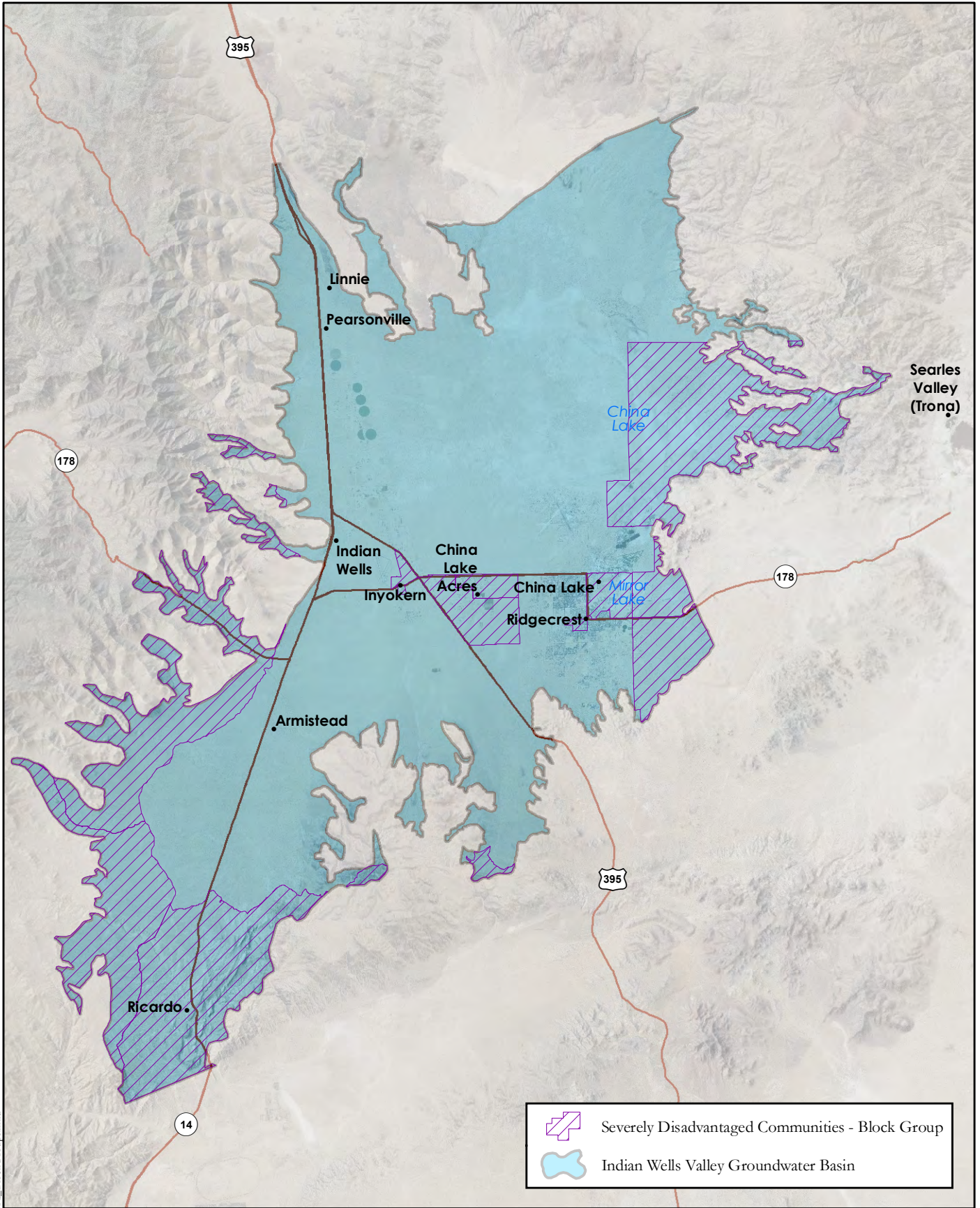
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Letters of support for the proposed Project have been provided by several stakeholders, including SDAC/DAC representatives from the Inyokern Community Services District and from the Searles Valley. Copies of these SDAC/DAC support letters are provided in Attachment 7 (“Disadvantaged Communities”).

It should also be noted, the Indian Wells Valley groundwater basin is included in the Inyo-Mono “Integrated Regional Water Management Plan” (IRWMP). The Inyo-Mono Regional Water Management

Group (RWMG) has previously proposed to assist water suppliers and communities understand SGMA and prepare for implementation through a series of community workshops. In addition, the Inyo-Mono RWMG will assist in outreach to SDACs and DACs within the Indian Wells Valley groundwater basin area, including Inyokern and the Searles Valley.

**FIGURES - ATTACHMENT 9
(SEVERELY DISADVANTAGED COMMUNITIES)**



	Severely Disadvantaged Communities - Block Group
	Indian Wells Valley Groundwater Basin

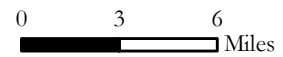
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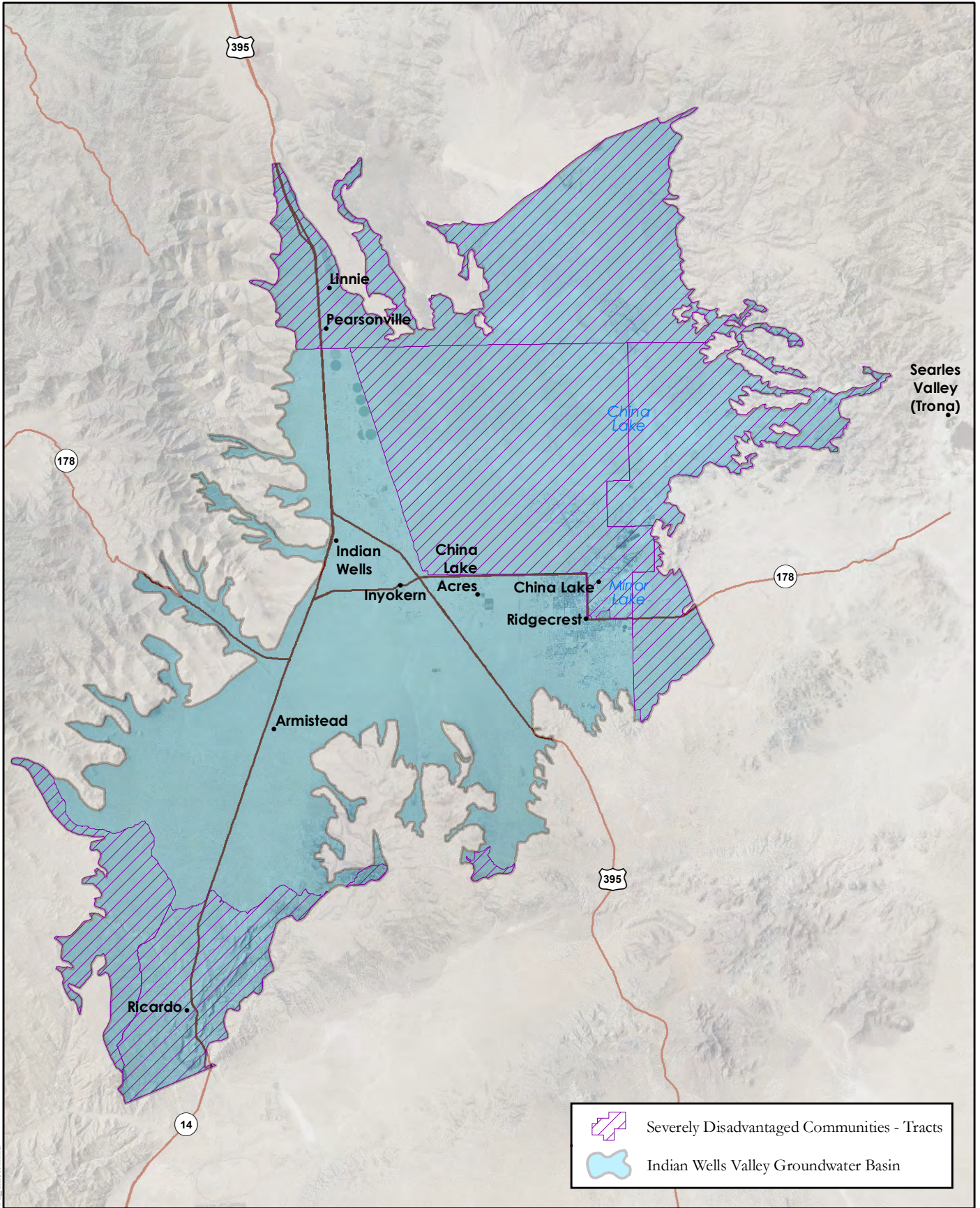


**BLOCK GROUPS
SEVERELY DISADVANTAGED COMMUNITIES
INDIAN WELLS VALLEY GROUNDWATER BASIN**

Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm

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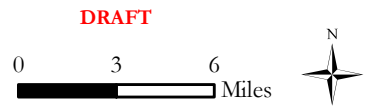


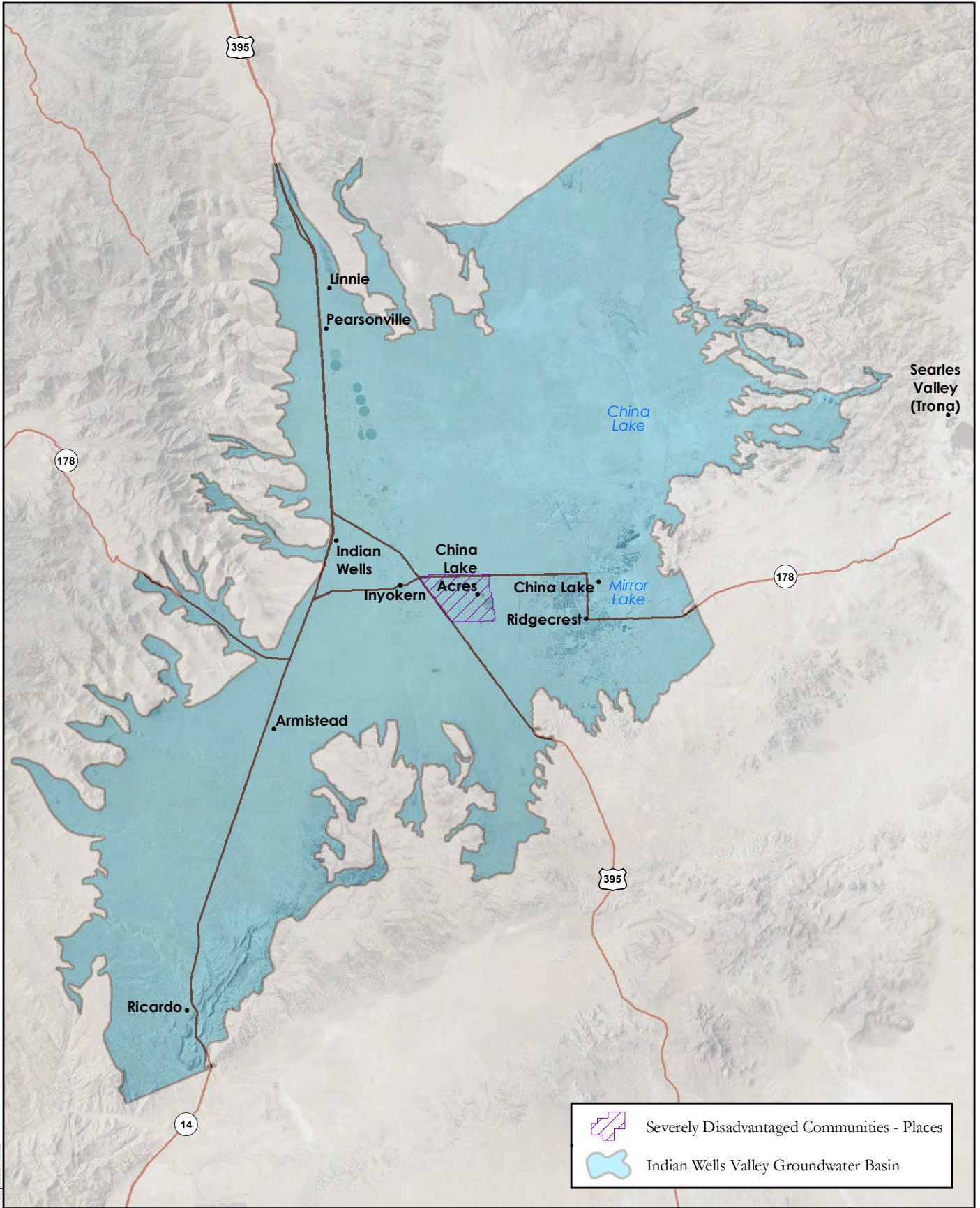
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Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm

TRACTS
SEVERELY DISADVANTAGED COMMUNITIES
INDIAN WELLS VALLEY GROUNDWATER BASIN





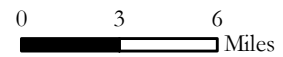
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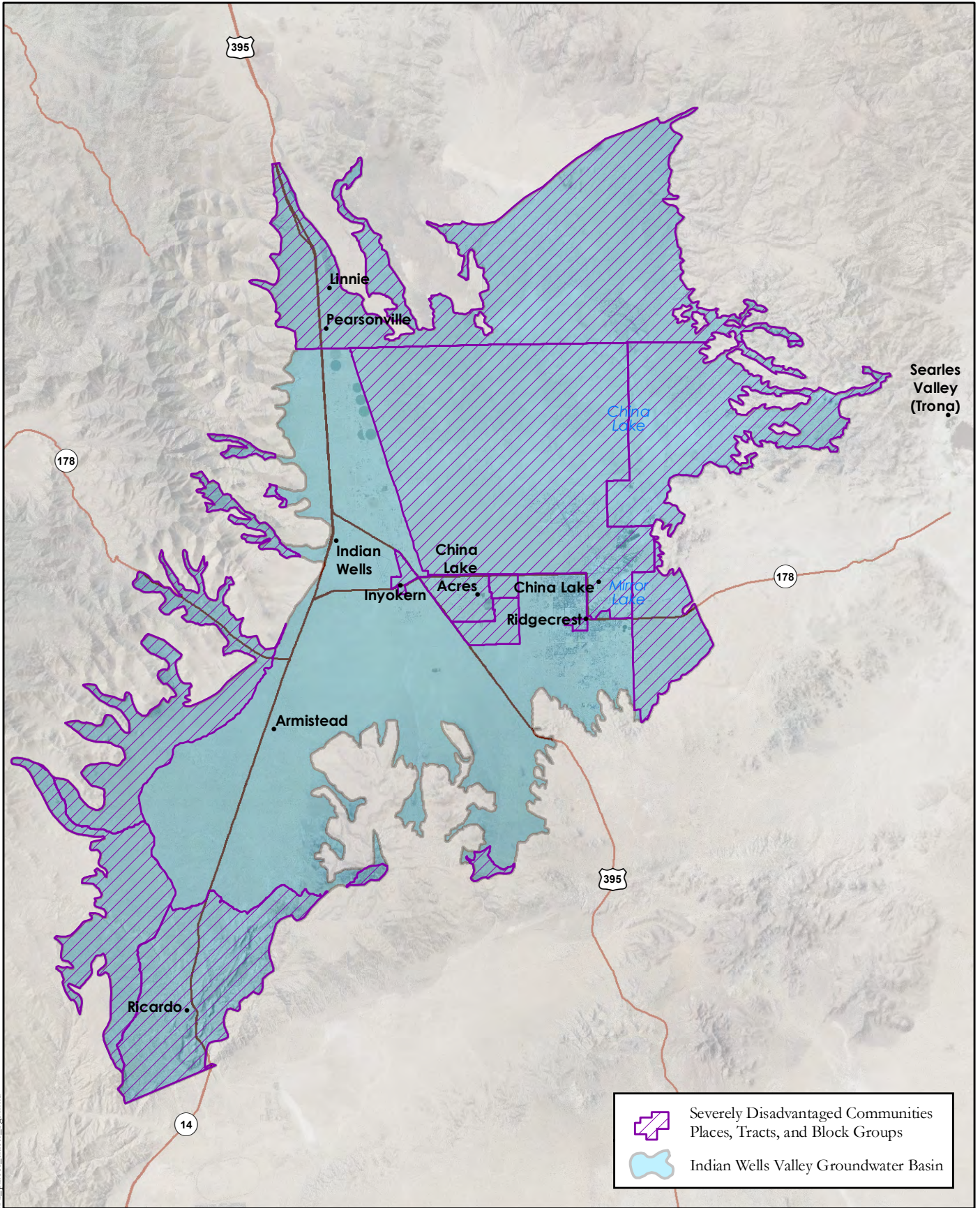


**PLACES
SEVERELY DISADVANTAGED COMMUNITIES
INDIAN WELLS VALLEY GROUNDWATER BASIN**

Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm

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Document Path: F:\p2652\SDAC_places_tracts_bgs.mxd



**PLACES, TRACTS, AND BLOCK GROUPS
SEVERELY DISADVANTAGED COMMUNITIES
INDIAN WELLS VALLEY GROUNDWATER BASIN**

Source: http://www.water.ca.gov/irwm/grants/resources_dac.cfm

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