

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Groundwater Extraction Fee Data Package

REVISED June 18, 2018

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Contents

Exhibit 1: IWVGA Staff Report

Exhibit 2: Estimated Costs Required to be Funded by Groundwater Extraction Fee

Exhibit 3: Determination of Fee

Exhibit 4: Groundwater Sustainability Plan Schedule

Exhibit 5: Methods to Quantify/Report Groundwater Production

Exhibit 6: Listing of IWV Wells and Water Systems

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Exhibit 1: IWVGA Staff Report

IWVGA ADMINISTRATIVE OFFICE

Memorandum

TO: IWVGA Board Members

DATE: June 21, 2018

FROM: James Worth, IWVGA Staff

Revised June 18, 2018

SUBJECT: Groundwater Extraction Fees to Finance Development and Adoption of a Groundwater Sustainability Plan and IWVGA Administrative Costs

SUSTAINABLE GROUNDWATER MANAGEMENT ACT

The “Sustainable Groundwater Management Act” (“SGMA”) became effective January 1, 2015. In essence, SGMA requires local agencies with water supply, water management or land use responsibilities as well as federal governmental entities overlying a groundwater basin to 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. The IWV basin is designated as a high priority basin in critical overdraft and is required to prepare a Groundwater Sustainability Plan by January 2020.

The Indian Wells Valley Groundwater Authority ("Authority") was formed and serves as the exclusive GSA for the IWV Basin. Kern County, San Bernadino County, Inyo County, the City of Ridgecrest and the Indian Wells Valley Water District serve as voting members of the GSA. The Navy and the Bureau of Land Management are non-voting members of the GSA. The GSA is presently developing the GSP required by SGMA to achieve groundwater sustainability. A sustainable groundwater basin will benefit all water users, including but not limited to, eliminating and/or reducing an unreasonable lowering of groundwater levels and groundwater storage and water quality degradation.

It should be noted that failure to adopt a GSP by January 31, 2020 may lead to the State Water Resources Control Board ("Board") designating the Indian Wells Valley Groundwater Basin ("IWV Basin") as a probationary basin and authorizing the Board to adopt an interim plan including, but not limited to, identification of actions necessary to correct a condition of long-term overdraft, restrictions on groundwater extractions and the allocation, administration and collection of fees.

DISCUSSION

On January 18, 2018, the Indian Wells Valley Groundwater Authority (“IWVGA”) Board of Directors (“Board”) directed IWVGA staff to develop a fee proposal to finance the development and adoption of a Groundwater Sustainability Plan (“GSP”). The Board directed that the fee be based on volumetric usage of groundwater and be imposed on Groundwater

Extractors, with the exception of de minimis extractors.¹

At subsequent IWVGA board meetings, staff presented updated concepts of the extraction fee based on Board direction and public comment. Following the March board meeting, a board workshop was held on April 5, 2018 to provide the public with the opportunity to address the Board on the proposed fee. Following the Board workshop, staff continued to refine the extraction fee proposal to address comments made at the workshop. The following is staff's recommendation on how to implement the fee. The elements of the proposed groundwater extraction fee identified by staff are as follows:

Authority to Impose Fees:

Staff recommends the IWVGA Board adopt a fee pursuant to California Water Code Section 10730 ("Section 10730"), which was enacted through the California Sustainable Groundwater Management Act ("SGMA"). Section 10730 grants a Groundwater Sustainability Agency ("GSA") the authority to impose a groundwater extraction fee. Section 10730(a) states in part as follows:

- (a) A groundwater sustainability agency may impose fees, including, but not limited to, permit fees and fees on groundwater extraction or other regulated activity, to fund the costs of a groundwater sustainability program, including, but not limited to, preparation, adoption, and amendment of a groundwater sustainability plan, and investigations, inspections, compliance assistance, enforcement, and program administration, including a prudent reserve.

In addition, Water Code Section 10725(a) authorizes the IWVGA to "perform any act necessary or proper to carry out the purposes of this part [SGMA]."

Public Engagement:

Before imposing a fee, a GSA shall hold a public meeting, "at which oral or written presentations may be made" (Section 10730(b)). The GSA must provide notice prior to the meeting, pursuant to California Government Code Section 6066, including the time and place of the public meeting, "a general explanation of the matter to be discussed and a statement that the data required by this section is available." *Id.* At least 20 days prior to the meeting, the GSA "shall make available to the public data upon which the proposed fee is based. *Id.* After the public meeting, the fee shall be imposed or increased "only by ordinance or resolution."

Although Section 10730 only requires the IWVGA to hold a public meeting, a Board workshop was held on April 5, 2018. In addition, the draft Data Package upon which the proposed fee is based was made available to the public on March 29, 2018 and notice of the workshop was posted on the IWVGA website (iwvga.org) and published in the Daily Independent. Members of the Board, PAC, TAC and the public all provided comments on the

¹ "De minimis extractor" means a person who extracts, for domestic purposes, two acre-feet or less per year (California Water Code Section 10721(e)).

proposed fee at the workshop.

~~An additional Informational Meeting was held on June 7, 2018 in Inyokern. Notice of the Informational Meeting was published in the Daily Independent on three separate occasions between May 30, 2018 and June 5, 2018 and posted on the IWVGA website (iwvga.org). Notice was also mailed to approximately 500 well owners advising of the Informational Meeting. In total, the proposed extraction fee has been discussed at the February, March and May IWVGA Board meetings, the April 5 Board workshop and the June 7 Informational Meeting.~~

An Informational Meeting was scheduled for June 7, 2018 in Inyokern. The primary purpose of the meeting was to inform private well owners of SGMA and the need for the Extraction Fee. Notice of the meeting was published in the Daily Independent and the News Review and posted on the IWVGA website (iwvga.org) and the City's Facebook page. Notice was also mailed to approximately 400 well owners advising of the Informational Meeting. Well over 200 people attended the meeting. As a result of the large number of public attendees, the Informational Meeting was cancelled due to a lack of available space at the Inyokern Senior Center. Staff intends to re-notice and hold the Informational Meeting on a date to be determined.

Exempted Pumpers:

While the Board's approved motion to develop a fee proposal did not identify federal groundwater extractions, United States Navy ("Navy") and United States Department of Interior Bureau of Land Management ("BLM") pumping should be excluded. SGMA exempts federal agencies from the requirements of SGMA and prohibits the imposition of fees on de minimis extractors unless regulated pursuant to SGMA.²

Gap Funding Requirement:

As the extraction fee proposal has been refined, budget items and amounts considered when calculating the needed gap funding have been adjusted and/or added. The following provides an overview of the items included in the budget and the rationale for adjusting the amounts after the Board workshop.

Expenditures: As the GSA for the Indian Wells Valley Basin, the IWVGA is required to adopt a GSP by no later than January 31, 2020. The IWVGA Water Resources Manager ("WRM") has estimated that the total cost of developing and adopting the GSP to be about \$3.1 million. Additionally, as part of the Proposition 1 grant funding request, the WRM identified \$646,000 in costs for initial projects benefitting Severely Disadvantaged Communities ("SDAC"). \$87,600 has been added to account for the cost of the USGS Recharge Study. The WRM has identified an additional \$435,250 in estimated costs for the WRM's support of the IWVGA. IWVGA Administrative Costs of \$161,500 are included to fund the hiring of a part-time General Manager for the GSA. The City of Ridgecrest has or expects to provide \$210,466 in services and facilities which are referred to as Reimbursable Costs. Legal Costs which were estimated at \$350,000 have been reduced to \$200,000 to account for the fact that much of legal

² For purposes of this Proposal, any reference to groundwater pumpers excludes de minimis extractors, the Navy and BLM unless otherwise specified.

work will continue to be provided as in-kind services by General Members of the GSA. The remaining \$200,000 is estimated legal costs to be incurred by IWVGA Special Counsel (James Markman) for work on GSP development and an expected validation action. Finally, the 20% reserve in the amount of \$939,070 has been reduced to ~~\$222,138~~~~\$227,268~~ which is 5% of the total GSP Development and SDAC Costs (~~\$3,646,000~~~~\$3,748,600~~), IWVGA Support Costs (\$435,250), IWVGA Administrative Costs (\$161,500) and Legal Costs (\$200,000). Total Expenditures have been reduced from \$5,844,886 to ~~\$4,962,954~~~~\$5,070,684~~ resulting in ~~\$881,932~~~~\$774,202~~ less estimated expenditures.

Revenue: On April 4, 2018, the California Department of Water Resources (“DWR”) announced its final award for the Proposition 1 Grant funding, awarding the IWVGA the full Proposition 1 grant award of \$2,146,000 -- \$1.5 million for development of the GSP and \$646,000 for SDAC projects. While the local match requirement for the SDAC projects grant award may be waived, the GSP development grant award requires a \$1.5-million local match. It is estimated more than two-thirds (~~\$1,061,200~~~~\$1,157,300~~) of the local match requirement can be achieved with in-kind services and existing investments by parties in the Basin. ~~Three~~~~Two~~ budget items have been added under Revenue to reflect all monies received or expected to be received by the IWVGA to fund development of the GSA. The Initial General Member Agency Contribution of \$75,000 reflects the \$15,000 provided by each of the 5 General Members pursuant to the Joint Exercise of Powers Agreement creating the IWVGA (Section 9.02). The \$500,000 Advance from the Indian Wells Valley Water District (“IWVWD”) is also included. On June 11, 2018, the IWVWD Board voted unanimously to defer reimbursement of the \$500,000 and seek reimbursement and/or credit from “future assessments, charges and/or fees imposed by the Authority” to fund the costs of groundwater management pursuant to SGMA. Finally, tThe Proposition 1 Distressed Counties Grant has also been added. The Proposition 1 Distressed Counties Grant total is \$250,000 which includes reimbursement for the USGS Recharge Study and other GSP support costs.~~For accounting purposes, the total Proposition 1 Distressed Counties Grant revenue has been reduced by \$80,000 as some GSP support costs are already accounted for in the Proposition 1 Grant award.~~ These additional Revenue ~~adjustments~~~~items~~ total ~~\$728,900~~~~245,000~~ thereby increasing estimated Revenue from \$3,303,300 to ~~\$3,548,300~~~~4,032,200~~.

The following table summarizes all of these estimated financial impacts resulting in a total estimated gap funding requirement of ~~\$930,754~~~~\$1,522,384~~ which the proposed pumping fee would address.

Budget Items	Estimated Costs
EXPENDITURES	
GSP Development and SDAC Costs (Prop 1)	<u>\$3,646,000</u>\$3,748,600
GSP Preparation	<u>\$3,000,000</u> \$3,102,600
Water Conservation and Rebate Program	\$206,000
Water Audit, Leak Detection, & Leak Repair Program	\$440,000
USGS Recharge Study	\$87,600
IWVGA Support Costs	\$435,250
IWVGA/TAC/PAC Coordination	\$144,250
Prop 1 Application/Reporting	\$103,000
Schedule/Budget Management	\$52,000
Groundwater Pumping Assessment Support	\$121,500
Database Management Coordination	\$10,000
CASGEM Coordination	\$4,500
IWVGA Administrative Costs	\$161,500
GSA Board Meetings	\$42,000
Consultant Management and GSP Development	\$24,500
Financial Management	\$8,500
Community Outreach	\$21,000
Budget Development & Administration	\$12,500
PAC/TAC Meetings	\$19,000
Travel	\$6,000
Insurance	\$15,000
Conferences/Training	\$3,000
Miscellaneous	\$10,000
City of Ridgecrest Reimbursable Costs	\$210,466
Legal Costs	\$200,000
Reserve	<u>\$222,138</u>\$227,268
Total Expenditures	<u>\$4,962,954</u>\$5,070,684
REVENUE	
Proposition 1 Grant Award	\$2,146,000
GSP Preparation	\$1,500,000
Water Conservation and Rebate Program	\$206,000
Water Audit, Leak Detection, & Leak Repair Program	\$440,000

In-kind Services	<u>\$1,061,200</u><u>\$1,157,300</u>
U.S. Navy/Federal Services	<u>\$1,001,200</u> <u>\$1,097,300</u>
IWVWD Services	\$60,000
Initial General Member Agency Contribution	\$75,000
IWVWD Advance	<u>\$500,000</u>
Proposition 1 Distressed Counties Grant	<u>\$250,000</u><u>\$170,000</u>
Total Revenue	<u>\$4,032,200</u><u>\$3,548,300</u>
TOTAL GAP FUNDING REQUIRED	<u>\$930,754</u><u>\$1,522,384</u>

Calculation of Fees:

As previously directed by the Board, the standard volumetric fee would be imposed on each Groundwater Extractor pumping groundwater and would be based on the amount of groundwater pumped. Groundwater Extraction Fees would be imposed based on the amount of groundwater pumped in relation to the funds required to develop and adopt the GSP and the additional IWVGA expenditures identified above. The initial calculation of a per acre-foot (“AF”) fee would be based on existing estimates of the aggregate annual groundwater extractions by Groundwater Extractors. Estimated groundwater pumping for 2016 is 21,600 AF, as reported to the Indian Wells Valley Cooperative Groundwater Management Group.

~~For example, estimated groundwater pumping for 2016 is 21,600 AF, as reported to the Indian Wells Valley Cooperative Groundwater Management Group. A Groundwater Extraction Fee of \$35 per AF would generate \$756,000 per year and the required Gap Funding of \$1,522,384 would be met in approximately 24 months. See Exhibit 3 of the Data Package, Determination of Fee. A further noticed public meeting pursuant to Section 10730 would be required to increase the amount of the fee if the Gap Funding requirement increased.~~

Staff recently recommended a Groundwater Extraction Fee of \$35 per AF which would generate \$756,000 per year and the expected required Gap Funding of \$1,522,384 would be met in approximately 24 months. However, with the IWVWD’s agreement to defer reimbursement of the \$500,000 until after GSP adoption, the Board has multiple options to consider when calculating the fee. (1) Keep the Extraction Fee at \$35 per AF and terminate the Extraction Fee when the required Gap Funding of \$930,754 is met; or (2) Reduce the Extraction Fee to \$25 per AF and the required Gap Funding of \$930,754 should be met in approximately 21 months. Alternate options may be explored if that is the Board’s desire. See Exhibit 3 of the Data Package, Determination of Fee. A further noticed public meeting pursuant to Section 10730 would be required to increase the amount of the fee if the Gap Funding requirement increased.

Groundwater Extractors Identification and Well Registration:

Existing Groundwater Extractors who would be charged the proposed fee are being identified using county records and other available public documents. A list of the Groundwater Extractors subject to the proposed fee is included in Exhibit 6 of the Data Package, IWV Wells and Systems which continues to be updated and verified. Once the fee is adopted, all Groundwater Extraction Facilities within the boundaries of the Indian Wells Valley Groundwater

Basin (“Basin”) must be registered with the IWVGA by the owner or operator no later than ~~August 20, 2018~~~~July 23, 2018~~. **Exception:** Groundwater Extraction Facilities that are used solely by a De Minimis Extractor (less than 2 acre-feet per year for domestic purposes) must register with the IWVGA no later than October 1, 2018. Requiring well registration will help ensure that accurate data is maintained and well owners only pay their fair share of the Extraction Fee, and no more.

Failure to Register: Groundwater Extraction Facilities are prohibited from pumping groundwater if they are not registered by the applicable date above and said prohibition shall continue until the Groundwater Extraction Facility is registered with the IWVGA.

Groundwater Extraction Facilities constructed after ~~August 20, 2018~~~~July 23, 2018~~ must register and must receive registration approval from the Water Resources Manager and must comply with the all applicable rules and regulations of the Groundwater Extraction Fee prior to the extraction of any groundwater from the Basin.

Groundwater Extraction Measurement Method:

Effective ~~September 1, 2018~~~~August 1, 2018~~, all groundwater extractions from, and within, the boundaries of the Basin shall be measured in a method approved by the Water Resources Manager and reported to the IWVGA. In light of this, the IWVGA, through the WRM, has developed criteria and a procedure for measuring extractions. Exhibit 5 of the Data Package, Methods to Quantify/Report Groundwater Production, includes a memorandum on Methods to Quantify/Report Groundwater Production prepared by the WRM with assistance from the TAC.

Groundwater Extractors shall seek the Water Resources Manager’s method approval through the submission of an Authority approved form by no later than ~~August 20, 2018~~~~July 10, 2018~~. The Water Resources Manager shall review all method requests and return, with corrective comment, any that do not meet the Water Resources Manager’s approval. Approved method requests shall receive an approval notice from the Water Resources Manager. A Groundwater Extraction Facility may not extract any groundwater from the Basin until it has received a method approval notice from the Water Resources Manager.

The preferred method for measuring groundwater extractions shall be through a flow metering device approved by the Water Resources Manager.³ A secondary method shall be through use of electrical records and pump efficiency data. If the above options are not available the Groundwater Extractor must seek and receive approval from the Water Resources Manager of an alternative method prior to ~~September 1, 2018~~~~August 1, 2018~~.

Groundwater Extraction Reporting and Fee Payment.

³ The Indian Wells Valley Water District and Searles Valley Minerals have meters installed on their wells. It is not presently known how many of the other Groundwater Extraction Facilities have meters.

Commencing on ~~August 1, 2018~~ September 1, 2018 and continuing, on the first day of each subsequent month, Groundwater Extractors shall read and record the needed data for the measuring method used by the Groundwater Extraction Facility. By the 10th day of each calendar month, the Groundwater Extractor shall self-report the needed data from their Groundwater Extraction Facility on the self-reporting form provided by the IWVGA. Additionally, the Groundwater Extractor shall simultaneously pay the Groundwater Extraction Fee provided for on the Form. Payments would be made to the IWVGA. Payments not made with thirty (30) days of becoming due would be considered delinquent.

If unusual circumstances exist, a Groundwater Extractor may request that their Groundwater Extraction Facility be placed on a modified reporting and billing schedule approved by both the IWVGA's General Manager and the Water Resources Manager.

Delinquent Accounts:

Water Code Section 10730.6 of SGMA authorizes the IWVGA to collect groundwater fees imposed pursuant to Section 10730 and provides multiple remedies that the IWVGA may pursue to collect delinquent accounts. As prescribed by California Water Code section 10730.6, if the owner and/or operator of a Groundwater Extraction Facility knowingly fails to pay the Groundwater Extraction Fee within thirty (30) days of it becoming due, it is delinquent and the owner and/or operator shall be liable to the IWVGA for interest at a rate of one (1) percent per month on the delinquent amount of the Groundwater Extraction Fee and a ten (10) percent penalty on the delinquent amount of the Groundwater Extraction Fee.

As an additional remedy, the IWVGA may, after a public hearing, order an owner and/or operator to cease extraction of groundwater until all delinquent fees, interests and penalties are paid. In such an instance, the IWVGA shall give notice to the owner and/or operator by certified mail not less than 15 days in advance of the public hearing.

These above cited rights are additional rights to those rights which the IWVGA may otherwise be prescribed by law.

Recommended Board Action:

Staff recommends that the Board:

1. Adopt Ordinance No. 02-18 — Establishing Groundwater Extraction Fees and the Rules, Regulations and Procedures for their Imposition~~Establishing the Rules, Regulations and Procedures for the Imposition and Collection of Groundwater Extractions Fees.~~
- ~~2. Adopt Resolution No. 03-18 — Resolution Establishing procedures for and Adopting a Groundwater Extraction Fee~~
- ~~3.~~ 2. Authorize staff to do all things necessary to implement the Groundwater Extraction Fee.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Exhibit 2: Estimated Costs Required to be Funded by Groundwater Extraction Fee

Supporting Attachments

- Prop 1 Application Budget Tables
- IWVGA Support Costs
- City of Ridgecrest Reimbursable Costs Budget Breakdown
- Final Prop 1 Funding Recommendations

Indian Wells Valley Groundwater Authority

Estimated Costs Required to be Funded by Groundwater Pumping Fee

Budget Items	Estimated Costs
Expenditures	
GSP Development and SDAC Costs (Prop 1)	\$3,646,000
<i>GSP Preparation ^{1]}</i>	<i>\$3,000,000</i>
<i>Water Conservation and Rebate Program ^{1]} ^{2]}</i>	<i>\$206,000</i>
<i>Water Audit, Leak Detection, and Leak Repair Program ^{1]} ^{2]}</i>	<i>\$440,000</i>
USGS Recharge Study	\$87,600
IWVGA Support Costs ^{3]}	\$435,250
<i>IWVGA/TAC/PAC Coordination</i>	<i>\$144,250</i>
<i>Prop 1 Application/Reporting</i>	<i>\$103,000</i>
<i>Schedule/Budget Management</i>	<i>\$52,000</i>
<i>Groundwater Pumping Fee Support</i>	<i>\$121,500</i>
<i>Database Management Coordination</i>	<i>\$10,000</i>
<i>CASGEM Coordination</i>	<i>\$4,500</i>
IWVGA Administrative Costs	\$161,500
<i>GSA Board Meetings</i>	<i>\$42,000</i>
<i>Consultant Management and GSP Development</i>	<i>\$24,500</i>
<i>Financial Management</i>	<i>\$8,500</i>
<i>Community Outreach</i>	<i>\$21,000</i>
<i>Budget Development & Admin</i>	<i>\$12,500</i>
<i>PAC/TAC Meetings</i>	<i>\$19,000</i>
<i>Travel</i>	<i>\$6,000</i>
<i>Insurance</i>	<i>\$15,000</i>
<i>Conferences/Training</i>	<i>\$3,000</i>
<i>Miscellaneous</i>	<i>\$10,000</i>
City of Ridgecrest Reimbursable Costs ^{4]}	\$210,466
Legal Costs ^{5]}	\$200,000
Reserve ^{6]}	\$222,138
Total Expenditures	\$4,962,954
Revenue	
Proposition 1 GSP Grant Award ^{1]} ^{7]}	\$2,146,000
<i>GSP Preparation</i>	<i>\$1,500,000</i>
<i>Water Conservation and Rebate Program</i>	<i>\$206,000</i>
<i>Water Audit, Leak Detection, and Leak Repair Program</i>	<i>\$440,000</i>
In-kind Services	\$1,061,200
<i>U.S Navy/Searles Valley Minerals/Federal Services ^{1]} ^{8]}</i>	<i>\$1,001,200</i>
<i>IWVWD/City of Ridgecrest Services ^{1]} ^{9]}</i>	<i>\$60,000</i>
Member Agency Contributions	\$75,000
IWVWD Advance ^{10]}	\$500,000
Proposition 1 Distressed Counties Grant ^{11]}	\$250,000
Total Revenue	\$4,032,200

Indian Wells Valley Groundwater Authority

TOTAL GAP FUNDING REQUIRED	\$930,754
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Notes

1] From Resubmitted Prop 1 Grant Application. See Exhibit 2 supporting attachments for budget tables from Prop 1 Grant Application.

2] The Water Conservation and Rebate Program (\$206,000) and Water Audit, Leak Detection, and Leak Repair Program (\$440,000) together are collectively referred to as the SDAC Groundwater Conservation Pilot Project for a total of \$646,000.

3] Additional IWVGA support costs not eligible for Prop 1 Grant. See Exhibit 2 supporting attachments for description of costs.

4] Reimbursable costs include legal, IT support, and building usage costs. See Exhibit 2 supporting attachments for description of costs.

5] Legal costs anticipated to be incurred by IWVGA Special Counsel for work on GSP development and an anticipated validation action.

6] Reserve is 5% of the total of GSP Development and SDAC Costs (\$3,646,000), IWVGA Support Costs (\$435,250), IWVGA Administrative Costs (\$161,500), and Legal Costs (\$200,000).

7] Grant award amounts are consistent with DWR's Prop 1 Final Funding Recommendations. See Exhibit 2 supporting attachments.

8] Federal services include numerical modeling and monitoring well installation.

9] IWVWD/Ridgecrest services include development of the Salt and Nutrient Management Plan.

10] The IWVWD Board has voted to defer reimbursement of the \$500,000 and seek reimbursement and/or credit from "future assessments, charges and/or fees imposed by the Authority" to fund the costs of groundwater management pursuant to SGMA.

11] The Prop 1 Distressed Counties Grant total includes reimbursement for the USGS Recharge Study and other GSP support costs.

Table 5 - Proposal Budget

Proposal Title: Indian Wells Valley Groundwater Basin - Groundwater Sustainability Plan Development and SDAC Groundwater Conservation Pilot Project

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	\$1,500,000	\$1,500,000	\$0	\$3,000,000	50%
	Proposal Total	\$1,500,000	\$1,500,000	\$0	\$3,000,000	50%

1. Sources of funding from the IWVGA (including Kern County, Inyo County, San Bernardino County, Indian Wells Valley Water District, and City of Ridgecrest), Searles Valley Minerals, Bureau of Land Management, and from the U.S. Navy. A breakdown of funding sources is provided in Table 4.

Table 4 - Project Budget

Proposal Title: Indian Wells Valley Groundwater Basin - Groundwater Sustainability Plan Development and SDAC Groundwater Conservation Pilot Project

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>	\$304,207	\$710,793	\$0	\$1,015,000
	Task 1a - Hydrogeologic Conceptual Model	\$23,756.51	\$7,043 ¹	\$0	\$30,800
	Task 1b - Numerical Groundwater Model (Basin Model Updates, Sustainable Management Scenarios, Transport Modeling, Land Subsidence Evaluation, Safe Yield Review)	\$280,450.28	\$83,150 ¹	\$0	\$363,600
	Previous and Ongoing Model Development In-Kind Services	\$0	\$620,600 ²	\$0	\$620,600
2	Task 2 - <u>Salt and Nutrient Management Plan Development</u>	\$20,000	\$60,000 ³	\$0	\$80,000
	Task 2a - Loading Analysis (Existing)	\$0	\$30,000	\$0	\$30,000
	Task 2b - Mixing Model Development (Existing)	\$0	\$30,000	\$0	\$30,000
	Task 2c - Reporting and Coordination	\$20,000	\$0	\$0	\$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>	\$238,105	\$70,595 ¹	\$0	\$308,700
	Task 3a - Establish Monitoring Protocols and Reporting Standards	\$23,833.65	\$7,066	\$0	\$30,900
	Task 3b- Populate Database with Historical Data	\$41,805.29	\$12,395	\$0	\$54,200
	Task 3c - Install Transducers and Telemetry Equipment	\$138,605.38	\$41,095	\$0	\$179,700
	Task 3d - Integrate GSP Goals and Objectives - Adaptive Management	\$33,860.75	\$10,039	\$0	\$43,900
4	Task 4 - <u>Identify and Evaluate Hydrogeologic Data Gaps</u>	\$51,447	\$15,253 ¹	\$0	\$66,700
	Task 4a - Review Existing Model and Monitoring Network	\$32,703.77	\$9,696	\$0	\$42,400
	Task 4b - Identification and Prioritization of Data Gaps	\$18,742.96	\$5,557	\$0	\$24,300
5	Task 5 - <u>Monitoring Wells</u>	\$129,118	\$418,882	\$0	\$548,000
	Task 5a - Design and Location Siting	\$10,567.02	\$3,133 ¹	\$0	\$13,700
	Task 5b - Work Plan and Well Construction	\$0	\$373,400 ⁴	\$0	\$373,400
		\$76,283.09	\$22,617 ¹	\$0	\$98,900
	Task 5c - Collection of Monitoring Well Data	\$0	\$7,200 ⁴	\$0	\$7,200
		\$42,268.08	\$12,532 ¹	\$0	\$54,800

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>	\$70,807	\$20,993 ¹	\$0	\$91,800
	Task 6a - Hydrologic Analysis	\$12,418.18	\$3,682	\$0	\$16,100
	Task 6b - Design and Location Siting	\$23,062.33	\$6,838	\$0	\$29,900
	Task 6c - Equipment Purchase, Installation, and Testing	\$35,326.25	\$10,474	\$0	\$45,800
7	Task 7 - <u>Weather Stations</u>	\$52,758	\$15,642 ¹	\$0	\$68,400
	Task 7a - Design and Location Siting	\$12,572.44	\$3,728	\$0	\$16,300
	Task 7b - Equipment Purchase	\$22,676.67	\$6,723	\$0	\$29,400
	Task 7c - Installation and Testing	\$17,508.86	\$5,191	\$0	\$22,700
8	Task 8 - <u>Water Quality and Stable Isotope Sampling and Analysis</u>	\$83,842	\$24,858 ¹	\$0	\$108,700
	Task 8a - Surface and Groundwater Sampling	\$62,862.21	\$18,638	\$0	\$81,500
	Task 8b - Perform Geochemical Reaction and Transport Analysis	\$20,979.78	\$6,220	\$0	\$27,200
9	Task 9 - <u>Aquifer Tests</u>	\$132,898	\$39,402 ¹	\$0	\$172,300
	Task 9a - Prepare Aquifer Test Work Plan	\$27,844.49	\$8,256	\$0	\$36,100
	Task 9b - Perform Aquifer Testing	\$105,053.16	\$31,147	\$0	\$136,200

Tasks		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source	Other Cost Share	Total Cost
	Objective 3				
10	Task 10 - <u>Alternative Water/Conservation Study</u>	\$134,980	\$40,020 ¹	\$0	\$175,000
	Task 10a - Evaluate Alternative Water Sources and Conservation	\$57,848.66	\$17,151	\$0	\$75,000
	Task 10b - Evaluate Water Banking Alternatives and Extraction Schedule	\$19,282.89	\$5,717	\$0	\$25,000
	Task 10c - Evaluate Infrastructure Requirements	\$19,282.89	\$5,717	\$0	\$25,000
	Task 10d - Prepare Technical Memorandum	\$38,565.77	\$11,434	\$0	\$50,000
11	Task 11 - <u>Recycled Water Study</u>	\$47,050	\$13,950 ¹	\$0	\$61,000
	Task 11a - Existing Supply and Demand Analysis	\$5,090.68	\$1,509	\$0	\$6,600
	Task 11b - Identify Existing Recycled Water Infrastructure and Users	\$4,627.89	\$1,372	\$0	\$6,000
	Task 11c - Review Regulatory and Institutional Requirements	\$2,622.47	\$778	\$0	\$3,400
	Task 11d - Identify and Evaluate Potential Recycled Water Users	\$15,426.31	\$4,574	\$0	\$20,000
	Task 11e - Prepare Technical Memorandum	\$19,282.89	\$5,717	\$0	\$25,000

Tasks		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source	Other Cost Share	Total Cost
	Objective 4				
12	Task 12 - GSP Development and Compilation	\$234,788	\$69,612 ¹	\$0	\$304,400
	Task 12a - Prepare Executive Summary Chapter	\$694.18	\$206	\$0	\$900
	Task 12b - Prepare Introduction Chapter	\$925.58	\$274	\$0	\$1,200
	Task 12c - Prepare Plan Area and Basin Setting Chapter	\$12,495.31	\$3,705	\$0	\$16,200
	Task 12d - Prepare Sustainable Management Criteria Chapter	\$23,139.46	\$6,861	\$0	\$30,000
	Task 12e - Prepare Projects and Management Actions to Achieve Sustainability Goal Chapter	\$38,565.77	\$11,434	\$0	\$50,000
	Task 12f - Prepare Plan Implementation Chapter	\$26,996.04	\$8,004	\$0	\$35,000
	Task 12g - Prepare References and Technical Studies Chapter	\$1,542.63	\$457	\$0	\$2,000
	Task 12h - Develop Draft and Final GSP	\$24,142.17	\$7,158	\$0	\$31,300
	Task 12i - Project Management	\$57,694.39	\$17,106	\$0	\$74,800
	Task 12j - Stakeholder/DWR Coordination	\$48,592.87	\$14,407	\$0	\$63,000
	Grand Total (Tasks 1-12)	\$1,500,000	\$1,500,000	\$0	\$3,000,000

Notes

1. Funding Source: IWVGA
2. Funding Source: US Navy
3. Funding Source: City of Ridgecrest and IWWVD
4. Funding Source: US Navy, Bureau of Land Management, and Searles Valley Minerals

IWVGA Support Costs

Expenditure	Description	Total Costs (Aug 2017 - Jan 2020)
IWVGA/TAC/PAC Coordination	Additional Costs for coordination with the IWVGA, TAC, and PAC not included directly associated with the Prop 1 Grant costs (meeting preparation, coordination calls, meetings, etc.)	\$144,250
Prop 1 Application / Reporting [1]	Costs to Prepare the Prop 1 Grant Application, Coordination with DWR, and Prop 1 Grant Administration (invoice processing, reporting, etc.)	\$103,000
Schedule/Budget Management	Additional Project Management costs to develop and maintain a Microsoft Project schedule with budget tracking following the Navy's Plan of Action and Milestone (POAM) format .	\$52,000
Groundwater Extraction Fee Support [2]	Assist IWVGA with processing monthly fees including estimating pumping from non-metered wells.	\$121,500
Database Management Coordination	Coordination with Ramboll and IWVWD regarding database management development.	\$10,000
CASGEM Coordination	Coordination with DWR, Kern County Water Agency, and IWVGA to transfer CASGEM responsibilities to IWVGA.	\$4,500
TOTAL		\$435,250

[1] Assumes Prop 1 Admin Support begins June 2018.

[2] Assumes Groundwater Extraction Fees administered for 24 months.

City of Ridgecrest Reimbursable Costs - Budget Breakdown

Attorney Fees	2016	2017	2018	2019
Jan.	\$	8,842.50	\$ 6,500.00	\$ 4,000.00
Feb	\$	4,860.00	\$ 6,500.00	\$ 4,000.00
Mar	\$	7,321.49	\$ 6,500.00	\$ 4,000.00
April	\$	5,767.50	\$ 6,500.00	\$ 4,000.00
May	\$	2,097.30	\$ 6,500.00	\$ 4,000.00
June	\$	630.00	\$ 6,500.00	\$ 4,000.00
July	\$	5,308.00	\$ 6,500.00	\$ 4,000.00
August	\$	2,587.50	\$ 2,304.49	\$ 4,000.00
Sept.	\$	2,452.50	\$ 2,551.87	\$ 4,000.00
Oct.	\$	2,385.00	\$ 3,217.50	\$ 4,000.00
Nov.	\$	8,857.78	\$ 3,037.50	\$ 4,000.00
Dec.	\$	4,977.50	\$ 2,677.50	\$ 4,000.00
	\$	21,260.28	\$ 48,615.65	\$ 78,000.00
Total Attorney Costs		\$ 195,875.93		

Total Attorney Costs	\$ 195,875.93
Total Chambers use costs	\$ 4,960.00
Total IT Support	\$ 9,630.00
2016-2019 Cost to be reimbursed	\$ 210,465.93

Chamber hours	2016	2017	2018	2019
Jan.		4	3	3
Feb		3.5	3	3
Mar		3	3	3
April		3	3	3
May		3	3	3
June		7	3	3
July		2.5	3	3
August		2	3	3
Sept.		3.5	3	3
Oct.		2	2.5	3
Nov.		2.5	4	3
Dec.		2.5	2	3
		12.5	39.5	36
Total Chamber hours				
X \$40/hour		124		
Total Chamber costs		\$ 40.00		
		\$ 4,960.00		

IT Support	2016	2017	2018	2019
Jan.		\$ 270.00	\$ 250.00	\$ 250.00
Feb		\$ 240.00	\$ 250.00	\$ 250.00
Mar		\$ 210.00	\$ 250.00	\$ 250.00
April		\$ 210.00	\$ 250.00	\$ 250.00
May		\$ 210.00	\$ 250.00	\$ 250.00
June		\$ 450.00	\$ 250.00	\$ 250.00
July		\$ 180.00	\$ 250.00	\$ 250.00
August	\$ 150.00	\$ 150.00	\$ 250.00	\$ 250.00
Sept.	\$ 240.00	\$ 210.00	\$ 250.00	\$ 250.00
Oct.	\$ 150.00	\$ 180.00	\$ 250.00	\$ 250.00
Nov.	\$ 180.00	\$ 270.00	\$ 250.00	\$ 250.00
Dec.	\$ 180.00	\$ 150.00	\$ 250.00	\$ 250.00
	\$ 900.00	\$ 2,730.00	\$ 3,000.00	\$ 3,000.00
Council Chamber IT services include:				
Audio monitoring and leveling				
Broadcasting to OTA Channel 41 and Mediacom Channel 6				
Broadcasting to City webpage				
Assistance with PowerPoint presentations				
Digital copy of event/meeting within 2 business days				
Total IT Support	\$ 9,630.00			

Final Awards

2017 Groundwater Sustainability Plans and Projects Solicitation

April 2018

Note	Cat	1 Map ID	Grantee	Project Title	Category 1	Category 2	Total Grant Award
					Grant Award ^A	Grant Award	
			Arroyo Santa Rosa Basin Groundwater Sustainability Agency	Arroyo Santa Rosa Basin Groundwater Sustainability Plan	\$ -	\$ 177,081	\$ 177,081
B	20		Asian Business Institute Resource Center	Southeast Asian Groundwater and Sustainability Advocacy and Outreach Program	\$ 400,000	\$ -	\$ 400,000
			Atascadero Mutual Water Co.	2017 Atascadero Basin Sustainable Groundwater Proposal	\$ -	\$ 809,250	\$ 809,250
			Bear Valley Basin Groundwater Sustainability Agency	Bear Valley Basin Groundwater Sustainability Plan	\$ -	\$ 177,000	\$ 177,000
			Bedford-Coldwater Sub-basin Groundwater Sustainability Agency	Bedford-Coldwater Sub-basin Groundwater Sustainability Plan Proposal	\$ -	\$ 1,000,000	\$ 1,000,000
	18		Big Bear Lake Department of Water and Power	Basin Resiliency Sawmill Well Pumping Plant Project	\$ 782,298	\$ -	\$ 782,298
	9		Biola Community Services District	Biola Groundwater Recharge Project	\$ 705,000	\$ -	\$ 705,000
			Butte County Department of Water and Resource Conservation	Groundwater Sustainability Plan Development for the Vina, East Butte, West Butte and Wyandotte Creek Subbasins	\$ -	\$ 1,498,800	\$ 1,498,800
			Castaic Lake Water Agency	Santa Clarita Valley Groundwater Sustainability Agency 2017 Sustainable Groundwater Planning Grant Program Category 2 Proposal	\$ -	\$ 416,106	\$ 416,106
			City of Brentwood	Tracy Subbasin Groundwater Sustainability Plan Development Prop 1 Proposal	\$ -	\$ 1,000,000	\$ 1,000,000
			City of Corona	Sustainable Groundwater Planning Grant For the City of Corona Temescal Subbasin	\$ -	\$ 732,338	\$ 732,338
			City of Modesto	Sustainable Groundwater Planning Grant for the Modesto Groundwater Subbasin	\$ -	\$ 1,000,000	\$ 1,000,000
C			City of Paso Robles	Paso Robles Basin Groundwater Sustainability Plan Development	\$ -	\$ 1,500,000	\$ 1,500,000
			City of Redding	EAGSA Enterprise and Anderson Subbasin Groundwater Sustainability Plan	\$ -	\$ 983,230	\$ 983,230
			City of San Diego - Public Utilities Department	Groundwater Sustainability Plan for the San Pasqual Valley Groundwater Basin	\$ -	\$ 989,550	\$ 989,550
			Colusa Groundwater Authority	Colusa Subbasin Groundwater Sustainability Plan Development	\$ -	\$ 1,000,000	\$ 1,000,000
	10		Community Water Center	Facilitate Participation of Severely Disadvantaged Community Stakeholders In The Tulare Lake Basin And Develop A Drinking Water Vulnerability Tool	\$ 614,353	\$ -	\$ 614,353
			County of Glenn	Groundwater Sustainability Plan Development in the Corning Subbasin		\$ 999,980	\$ 999,980
C	6		County of San Diego	San Diego County GSP Development	\$ 1,000,000	\$ 2,000,000	\$ 3,000,000
			County of San Luis Obispo	2017 County of San Luis Obispo Sustainable Groundwater Proposal	\$ -	\$ 1,397,125	\$ 1,397,125
C	3		Cuyama Basin Groundwater Sustainability Agency	Cuyama Basin Groundwater Sustainability	\$ 648,124	\$ 1,500,000	\$ 2,148,124
			Del Norte County	Smith River Plain Groundwater Basin GSP	\$ -	\$ 250,000	\$ 250,000
			East Bay Municipal Utility District	East Bay Plain Subbasin Groundwater Sustainability Plan Development	\$ -	\$ 1,000,000	\$ 1,000,000
C			Eastern San Joaquin Groundwater Authority	Eastern San Joaquin Subbasin Groundwater Sustainability Plan Grant	\$ -	\$ 1,500,000	\$ 1,500,000
			Elsinore Valley Municipal Water District	Elsinore Valley Groundwater Sustainability Agency Groundwater Sustainability Planning Grant Proposal	\$ -	\$ 1,000,000	\$ 1,000,000
			Fillmore Piru GSA	Fillmore and Piru Basins Groundwater Sustainability Plans	\$ -	\$ 1,500,000	\$ 1,500,000
	7		Freshwater Trust	Engaging Severely Disadvantaged Communities in the Development of the Solano Subbasin Groundwater Sustainability Plan	\$ 490,000	\$ -	\$ 490,000
C	13		Indian Wells Valley Groundwater Authority	Indian Wells Valley Groundwater Basin - Groundwater Sustainability Plan Development and SDAC Groundwater Conservation Pilot Project	\$ 646,000	\$ 1,500,000	\$ 2,146,000
			Inyo-Water Department, County of	Groundwater Sustainability Planning for the Owens Valley Groundwater Basin	\$ -	\$ 713,155	\$ 713,155
C			Kern River Groundwater Sustainability Agency	Kern County Subbasin Groundwater Sustainability Plan Support - 2017 Grant Application		\$ 1,500,000	\$ 1,500,000
			Lassen County	Big Valley Groundwater Sustainability Plan	\$ -	\$ 999,185	\$ 999,185
	14		Leadership Counsel for Justice and Accountability	Partnering for Equitable Groundwater	\$ 758,000	\$ -	\$ 758,000
	15		Linda County Water District	Linda County Water District-Well 17 Project Funding Application Groundwater Sustainability Planning Grant Program Proposal	\$ 999,500	\$ -	\$ 999,500
			Los Angeles County Waterworks District No. 37, Acton	Fringe Area Antelope Valley Groundwater Sustainability Plan	\$ -	\$ 300,000	\$ 300,000
C			Lower Tule River Irrigation District Groundwater Sustainable Agency	Lower Tule River Irrigation District GSA, SGWP Planning Grant	\$ -	\$ 1,500,000	\$ 1,500,000
C	16		Madera County Water and Natural Resources	Groundwater Monitoring Well Installation and GSP Development For The Chowchilla Subbasin	\$ 1,000,000	\$ 1,500,000	\$ 2,500,000
C	11		Madera County Water and Natural Resources	Groundwater Monitoring Well Installation and GSP Development for the Madera Subbasin	\$ 1,000,000	\$ 1,500,000	\$ 2,500,000
			Marina Coast Water District	Monterey Subbasin Groundwater Sustainability Plan Development	\$ -	\$ 1,000,000	\$ 1,000,000
			Mendocino County Water Agency	Phase 2 of the Ukiah Valley Basin Groundwater Sustainability Plan Development	\$ -	\$ 764,255	\$ 764,255
C	1		Merced Irrigation District	2017 Merced Groundwater Subbasin Sustainability	\$ 901,261	\$ 1,500,000	\$ 2,401,261
C			Mid-Kaweah Groundwater Sustainability Agency	Kaweah Sub-Basin Groundwater Sustainability Plans Development	\$ -	\$ 1,500,000	\$ 1,500,000
C			Mid-Kings River Groundwater Sustainability Agency	Tulare Lake Subbasin GSP Development and SGMA Compliance Project	\$ -	\$ 1,500,000	\$ 1,500,000
			Mound Basin Groundwater Sustainability Agency	Mound Basin GSA and GSP	\$ -	\$ 758,100	\$ 758,100
	2		North Cal-Neva Resource Conservation and Development Council, Inc.	Big Valley GSP Monitoring and Data Development	\$ 782,344	\$ -	\$ 782,344
C			North Fork Kings Groundwater Sustainability Agency	Kings Basin Groundwater Sustainability Plans	\$ -	\$ 1,500,000	\$ 1,500,000
			Padre Dam Municipal Water District	San Diego River Valley Groundwater Sustainability Plan (GSP) Development Proposal	\$ -	\$ 600,000	\$ 600,000
C,D			Pajaro Valley Water Management Agency	Pajaro Valley Groundwater Sustainability Plan	\$ -	\$ 1,500,000	\$ 1,500,000
			Petaluma Valley GSA	Petaluma Valley Groundwater Sustainability Plan	\$ -	\$ 1,000,000	\$ 1,000,000
D			Sacramento Central Groundwater Authority	Development of the South American Subbasin Groundwater Sustainability Plan (Bulletin 118 Subbasin NO. 5-21.65)	\$ -	\$ 970,693	\$ 970,693
			Sacramento Groundwater Authority	North American Subbasin Groundwater Sustainability Plan Development	\$ -	\$ 994,276	\$ 994,276
C			Salinas Valley Basin Ground Water Sustainability Agency	Salinas Valley Basin Groundwater Sustainability Plan	\$ -	\$ 1,500,000	\$ 1,500,000
			San Antonio Basin Groundwater Sustainability Agency	San Antonio Basin Groundwater Sustainability Plan	\$ -	\$ 300,000	\$ 300,000
			San Benito County Water District	Sustainable Groundwater Planning Grant for GSP Preparation: Bolsa, Hollister, and San Juan Bautista Groundwater Subbasins	\$ -	\$ 830,336	\$ 830,336
			San Bernardino Valley Municipal Water District	Yucaipa Groundwater Sustainability Plan	\$ -	\$ 815,100	\$ 815,100
4			San Geronio Pass Water Agency	2017 Sustainable Groundwater Planning Grant for the San Geronio Pass Subbasin	\$ 1,000,000	\$ 1,000,000	\$ 2,000,000
C			Santa Cruz Mid-County Groundwater Agency	Santa Cruz Mid-County Groundwater Sustainability Plan Development	\$ -	\$ 1,500,000	\$ 1,500,000
			Santa Margarita Groundwater Agency	Santa Margarita Groundwater Sustainability Plan Development	\$ -	\$ 1,000,000	\$ 1,000,000
			Santa Rosa Plain GSA	Santa Rosa Plain Groundwater Sustainability Plan	\$ -	\$ 1,000,000	\$ 1,000,000
			Santa Ynez River Water Conservation District	Santa Ynez River Valley Basin GSP Planning and Preparation	\$ -	\$ 1,000,000	\$ 1,000,000
8			Self-Help Enterprises	Self-Help Enterprises - SDACs Project	\$ 1,000,000	\$ -	\$ 1,000,000
19			Shasta Valley Resource Conservation District	Groundwater Monitoring Implementation Program for the Shasta Valley GSA	\$ 976,884	\$ -	\$ 976,884
			Siskiyou County Flood Control and Water Conservation District	Development	\$ -	\$ 1,367,000	\$ 1,367,000
			Solano Subbasin Groundwater Sustainability Agency	Solano Subbasin Groundwater Sustainability Plan Development	\$ -	\$ 1,000,000	\$ 1,000,000
			Sonoma Valley GSA	Sonoma Valley Groundwater Sustainability Plan	\$ -	\$ 1,000,000	\$ 1,000,000
			Southeast Sacramento County Agricultural Water Authority	Establishing a Groundwater Sustainability Plan and Governance Structure for the Cosumnes Groundwater Sub Basin	\$ -	\$ 1,000,000	\$ 1,000,000
D			Sutter County Development Services	Sutter Subbasin Groundwater Sustainability Plan Development	\$ -	\$ 956,814	\$ 956,814
			Tehama County Flood Control & Water Conservation District	Tehama County Groundwater Sustainability Plan Development Grant Application	\$ -	\$ 1,498,960	\$ 1,498,960
12			The Nature Conservancy	Demonstrating Multi-Benefit On-Farm Managed Aquifer Recharge in the Central Valley	\$ 300,000	\$ -	\$ 300,000
			Tulelake Irrigation District	Protecting Our Groundwater Resource: Securing a Sustainable Future for the Tule Lake Subbasin	\$ -	\$ 721,120	\$ 721,120
			Upper Ventura River Groundwater Agency	Upper Ventura River Basin GSA and GSP	\$ -	\$ 630,061	\$ 630,061
			Walnut Valley Water District	Spadra Groundwater Basin Groundwater Sustainability Plan Development	\$ -	\$ 338,500	\$ 338,500
C	17		West Stanislaus ID	2017 Sustainable Groundwater Planning Grant for the Delta-Mendota Subbasin	\$ 1,178,500	\$ 1,500,000	\$ 2,678,500
			West Turlock Subbasin GSA	Sustainable Groundwater Planning Grant for the Turlock Groundwater Subbasin	\$ -	\$ 1,000,000	\$ 1,000,000
			Western Municipal Water District	Riverside-Arlington Subbasin Groundwater Sustainability Plan	\$ -	\$ 130,000	\$ 130,000
C	5		Westlands Water District	Groundwater Monitoring Well Installation Project and Groundwater Sustainability Plan Development for the Westside Subbasin	\$ 1,000,000	\$ 1,500,000	\$ 2,500,000
			White Wolf Groundwater Sustainability Agency	White Wolf Subbasin Groundwater Sustainability Plan Development	\$ -	\$ 557,998	\$ 557,998
			Yolo County Flood Control and water Conservation District	Yolo Subbasin - GSP Planning and Preparation	\$ -	\$ 1,000,000	\$ 1,000,000
			Yuba County Water Agency	Groundwater Sustainability Plans for the North Yuba Subbasin and South Yuba Subbasin	\$ -	\$ 893,948	\$ 893,948

\$ 16,182,264 \$ 69,569,961 \$ 85,752,225

A All Category 1 Projects: Grantee shall obtain written (i.e., letter) approval of proposed scope of work from GSA, of respective basin/GSP where project is located in, prior to execution of Grant Agreement.

B Recommended funding less than requested due to recalculation of Direct Project Administration (DPA) Costs.

C Critically Over-Draft Basin included in application

D Applicant submitted an Alternative Plan to DWR for review.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Exhibit 3: Determination of Fee

Supporting Attachments

- IWVGA Groundwater Production Rates – 1975 through Present
- Letter to Kern County Board of Supervisors from Indian Wells Valley Farmers Group

Determination of the Groundwater Pumping Fee

	Gap Funding Required ^{1]}	Fee Period (Months)	Annual Pumping (AFY)	Monthly Pumping (AF) ^{2]}	Fee (\$/AF) ^{3]}
Option 1	\$930,754	15	21,600	1,800	\$35
Option 2	\$930,754	21	21,600	1,800	\$25

AFY = acre-feet per year

AF = acre-feet

[1] See Exhibit 2 for determination of Gap Funding Required.

[2] Monthly pumping is annual pumping (21,600 AFY) divided by twelve months.

[3] Fee Rate is the Gap Funding required (\$930,754) divided by Fee Period divided by Monthly Pumping (1,800 AF).

IWW Ground Water Production Estimates 1975 - Present

Year	Meadow- brook Farms (e)	Simmons Ranch (f)	China Lake Acres	City of R/C	SVM	IWWWD	Inyokern CSD	NAWS (c)	Neal Ranch	Private Wells	Quist Farms	Orchards (d)	R/C Heights	S. Leroy (a/b)	Annual Totals
1975	1516		400		2781	2983	300	5000	2000				1000		15980
1976	1494		400		2911	3099	300	5000	2000				1000	1600	17804
1977	2702		400		3315	3063	300	5000	2000				1000	1600	19380
1978	3216		400		3081	3357	300	5000	2000				1000	1600	19954
1979	3257		400		3081	3402	300	5154	2000	2100			1000	1600	22294
1980	7515		400		2887	3319	300	4995	2041	2100			1000	1600	26157
1981	10036		400		3065	4223	300	4804	2002	2100			1000	1600	29530
1982	10324		400		2887	3963	300	4450	1478	2100			1000	1600	28502
1983	10087		400		2476	4316	300	4402	1752	2400			1000	1600	28733
1984	10312		400		2307	4940	300	4694	1568	2400			1000	1600	29521
1985	10100		400		2397	4981	300	4002	2450	2500			1000	1600	29730
1986	5389		400		2557	5901	300	4430	2353	2500			1000	1600	26430
1987	4141		Purchased by		2560	7426	300	4422	1447	2500			Purchased by	Ranch	22796
1988	5255		IWWWD		2560	7889	173	3980	1195	2500			500	Closed	23552
1989	7064				2320	8725	175	4205	Purchased by	2650			525		25639
1990	6187				2505	8600	170	3667	IWWWD	2650			525		24304
1991	6737				2406	7700	150	3364		2650			525		23532
1992	7104				2528	7650	141	3351		2650			550		23974
1993	7701				2607	7800	150	3411		2650			575		24894
1994	7504				2607	8300	146	3684		2650			575		25466
1995	7427				2710	8100	125	3848		2650			595		25455
1996	7807				2620	8504	134	3367		2650			600		25682
1997	7800				2522	8534	139	2983		2650			625		25253
1998	7800				2527	7719	102	3018		2700			640		24506
1999	7800				2537	8242	104	2541		2700			690		24614
2000	7800				2701	8148	111	2690		2800			725		24975
2001	8150				2732	8392	97	2840		2800			750		25761
2002	8460			445	2564	8865	115.6	3138		2800	750		750		27887.6
2003	9420			616	2561	9098	126	3325		2800	750		775		29471
2004	9370			413	2470	8992	118.4	2331		2800	750		800	950	28994.4
2005	9580			366	2504	8545	135	2288		2800	750		825	1025	28818
2006	9460			385	2591.2	8864.4	135	2440		2800	750		840	1050	29315.6
2007	9270			420	2530.4	9198.5	90.7	2533		2800	750		840	1000	29432.6
2008	8957			392	2520.7	8564.8	118	2119		2800	750		900	1200	28321.5
2009	9536			400	2534.5	8398.2	118	1883		2800	750		925	1125	28469.7
2010	9437			339	2586.6	7570	118	1710		2800	750		925	1050	27285.6
2011	9827			370	2457.5	7364.25	118	1734		2800	750		925	1050	27395.75
2012	9876			348	2743	7633.45	117.927	1710		2800	750		1062	800	27840.377
2013	9354	918		423	2706	7531.69	117.68	1538		2800	750		2846		27284.37
2014	7524	1,087		392	2679	7318.7	108	1618		1100	750		4087		26663.7
2015	6517	1,003		427	2518	7050	90.532	1442		1100	750		4387		25284.532
2016	6387	918		373	2377	6411.8	102.335	1595		1100	750		4300		24314.135
Total	315200	3926	4800	6109	110530	290681.79	7546.174	139706	26286	93250	11250	33062	12000	26850	1081196.9
Avg.	7532	1003	400	410	2638	6933	182	3369	1878	2491	750	1065	1000	1343	25778

(a) Spike Leroy ranch started back up in 2004 with approx. 150 acres of alfalfa x 7

(b) 2012 number is an estimate/converted to pistachio 2013

(c) Navy began aggressive water conservation program in 2007

(d) 2013 number based on March 4, 2014 letter to BOS.

2014/2015/2016 data includes 3,700 and 4,000 AF from Mojave Pistacio

"based off the UC Davis Pistachio Cost Study plus dust mitigation."

(e) 2005 Brown Road Farming changed to Meadowbrook Farms

IWV Farmers Group
PO Box 1436
Inyokern, CA. 93527
March 4, 2014
Elaine Mead
760-382-7260

Mr. Mick Gleason
Supervisor, First District
County of Kern
1115 Truxtun Avenue, 5th Floor
Bakersfield, CA. 93301

Dear Supervisor Gleason,

We would like to take this opportunity to thank you, the Board and the Planning Department for allowing us the opportunity make comments concerning the "Indian Wells Valley Resource Opportunity Plan: Water Availability and Conservation Report".

Let me start by saying we do not represent all of the agricultural interest in the Indian Wells Valley, but we do represent a high percentage of developed ag property. We have reviewed and studied the report, and have real concerns with the accuracy of the data and conclusions.

It is not our intent to engage in a discussion concerning the "Open or Closed" basin theories, nor is it our intent to address the issues of overdraft. We would like to bring to the attention of the Board what we feel are voids, discrepancies or misstatements of data and/or facts, which we feel makes the picture of the "water crises" not nearly as dire as concluded in the report. By understanding that the situation is not as bleak as presented, it allows the luxury of taking time to proceed with caution to make sure that any future restrictions on property owners are reasonable so that the loss of the use of the property is minimalized.

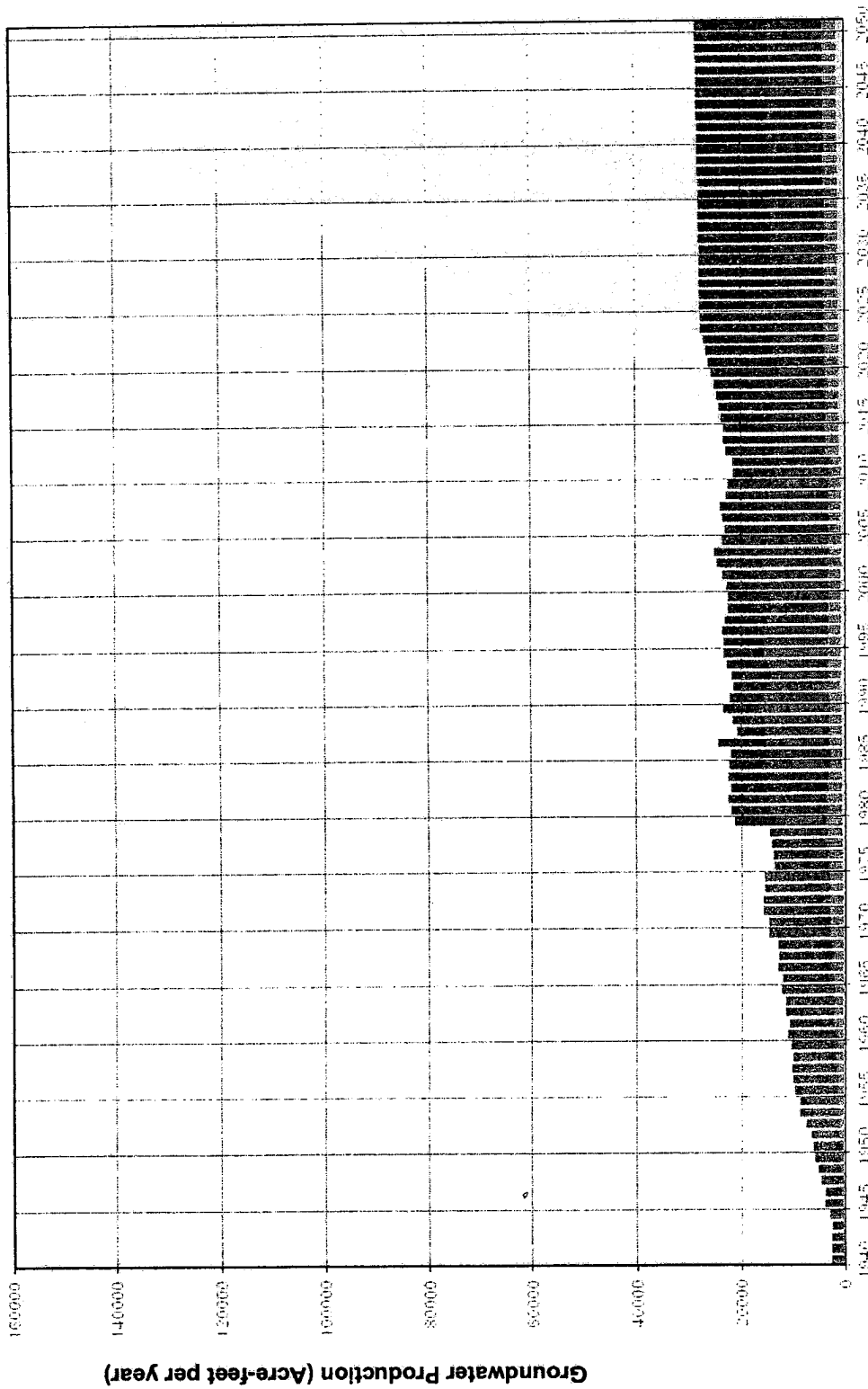
- ♦ **Incorrect Assumptions:** The projections done by Todd Engineers on Figure 15, "Potentially Irrigated Cropland", and Figure 16, "Historical and Projected Groundwater Production, 1940 – 2050", contain the assumption of 25,500 acres will be developed into Pistachio orchards is absurd. There was no consideration given to these properties other than the fact that the county has them in an A zone category of some degree. (A, A1, A1-MH, etc.) If field observations were made, as stated in the report, it would have been obvious that not all the properties are suitable for farming of any type. The only purpose this assumption serves is to incite misunderstandings, fear, confusion and bad feelings amongst the different groups of water users. The projections of future water demands made by the assumption should be disregarded by the Board of Supervisors.
- ♦ Figure 17, "Water Level in a Domestic Well Near New Agricultural Pumping" was used to show a drastic decline in water table in the area north of Inyokern. Without notations of how and when the levels were checked, it leads the reader to assume the water level has declined 5 ½' in 2 years, but since the measurements were taken while a large irrigation well was being operated approximately 4200'+/- away from that well, that leaves a lot of room to dispute this chart and its implications. Another well located approximately 1600'+/- from the well used in Figure 17, that is being monitored by the KCWA (using a transducer which takes and records a reading every 4 hours), for the period of 4-16-13 to 9-6-13 showed a drop of .967'.
- ♦ Concerning long-term trends in static water levels, some important data that was not included. A piece of information, from the IWV Water District's files, the Neal Ranch well #3, in the northwest ag area, drilled in 1976 shows a drop in static level of 10'4" from 1976 to 2007, a span of 31 years, a 4 inch per year drop in well water levels versus the 1-2 feet per year stated in the report. This is just one example of opposing data that is available, if you take the time to check available information of all types.
- ♦ **Economic Injury:** Reference to "Pistachio orchards" in such a negative way as is depicted in this report is damaging to this young agricultural industry, which has a low water use, high dollar crops and high tax revenue for the county. This negative approach will affect the ability to obtain financing in our area, not just in the agricultural industry but other real estate financing aspects.

- ♦ The planted acres and water use were inaccurately quoted in the report. The following is the current and planned acreages and their water demands. Currently there are 1850 planted acres (in various stages from new plantings to mature trees) by the following growers which last year (2013) used approximately 2979 AF of water. When all acreage planned to be planted by these growers is completed there will be 2270 acres with an estimated water usage of approximately 9833 AF/y once all trees reach maturity.

Grower	NET PLANTED ACRES		WATER USAGE	
	<u>Current Acres</u>	<u>Buildout Acres</u>	<u>2013</u>	<u>At Maturity</u>
♦ Sierra Shadows Ranch-Conaway	168 ac	258 ac	373 AF/y	1032 AF/y
♦ Amber Glow Ranch - Pat Davis	12 ac	12 ac	48 AF/y	48 AF/y
♦ Art Hickie	17 ac	17 ac	85 AF/y	85 AF/y
♦ Max Hovaten	80 ac	100 ac	480 AF/y	600 AF/y
♦ Simmons Alfalfa Ranch-Simmons	133 ac	133 ac	918 AF/y	918 AF/y
♦ Mojave Pistachio*-Stiefvater	1300 ac	1600 ac	325 AF/y	6400 AF/y
♦ Quist Farms-Pat Quist	140 ac	150 ac	750 AF/y	750 AF/y
Total	1850 ac	2270 ac	2979 AF/y	9833 AF/y

*Mojave Pistachio has done a conversion of use on 120 acres of alfalfa (with a water use of 1000 AF/y) to pistachio; this conversion was not addressed in the report. See Mojave Pistachio Statement date Feb. 12, 2014 in your Board package.

- ♦ Recharge: The Report estimates that average yearly recharge off the east slope of the Sierras into the Indian Wells Valley is less than 5,000 acre-feet per year. Another recent report by Brown Caldwell states 9,000 to 11,000 acre-feet per year, a large difference of 5,000 acre-feet per year. We believe the higher number is closer to actual recharge in that creeks after three years of drought are currently flowing in some of the many canyons draining into the IWV. The report made no actual observations, just theoretical calculations. The report should show the range of estimated recharge from all areas from all reports, as there are significant differences between reports. The Report's author chose the lowest recharge amount of any report.
- ♦ Concerns and questions we have:
Will Kern County:
 1. Move too fast to collect and review additional information that may contradict this report?
 2. Make decisions using incomplete or faulty data or statements?
 3. Take measures that will change existing practices or conditions prior to full review and comment on any of those specific changes.
 4. Make zoning changes that may affect current plans of expansion on some existing ag endeavors
 5. Restrict the ability of any IWV water user to obtain permits to drill new and/or replacement wells



January 2014

Ag - current

Ag - potential

NAWS

Municipal

SVM

Private Domestic

Ag - current

Ag - potential

NAWS

Municipal

SVM

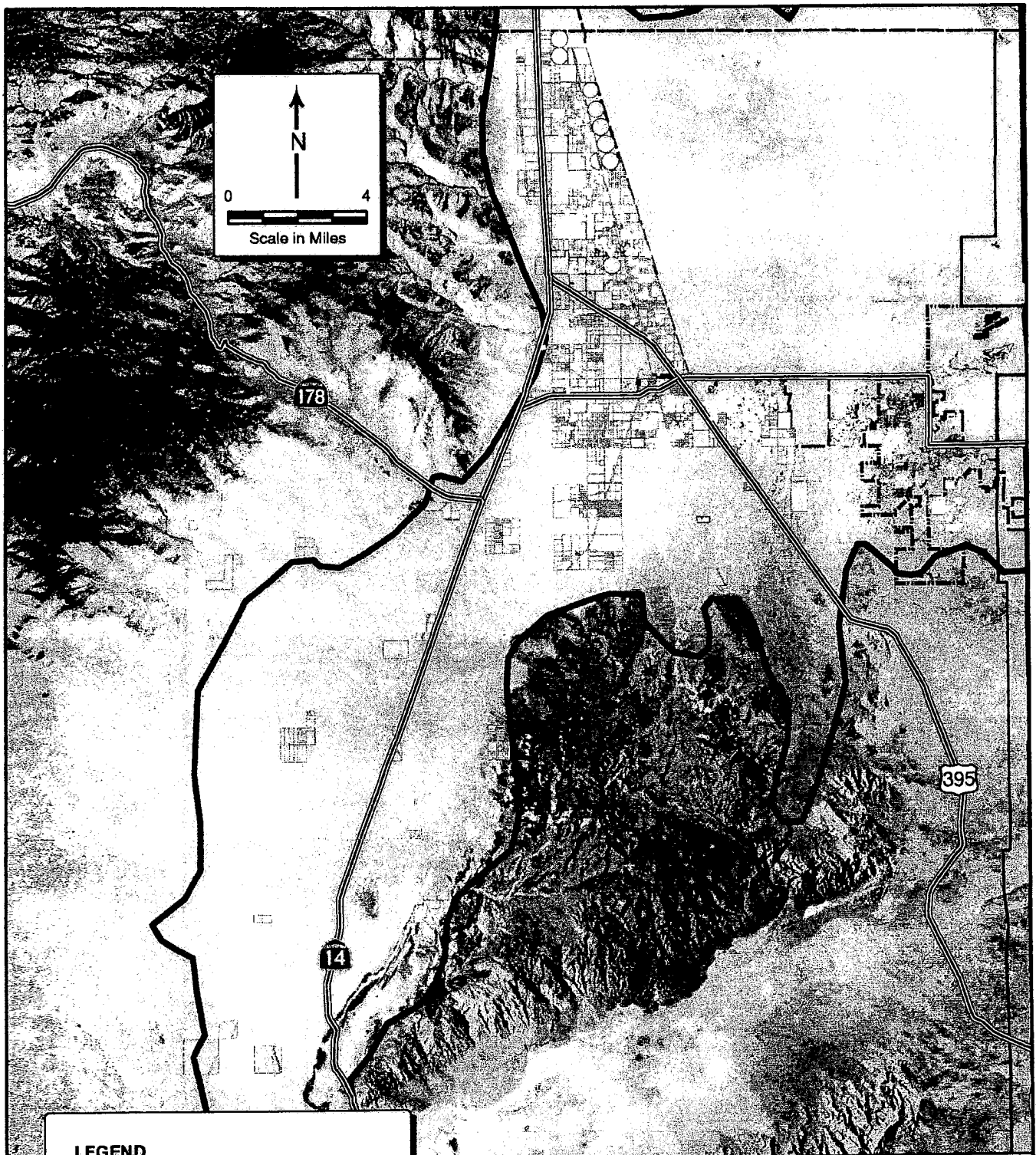
Private Domestic

Ag - current

Ag - potential







Figure 16
Historical and
Projected Groundwater
Production, 1940 - 2050

TODD ENGINEERS
Alameda, California



LEGEND

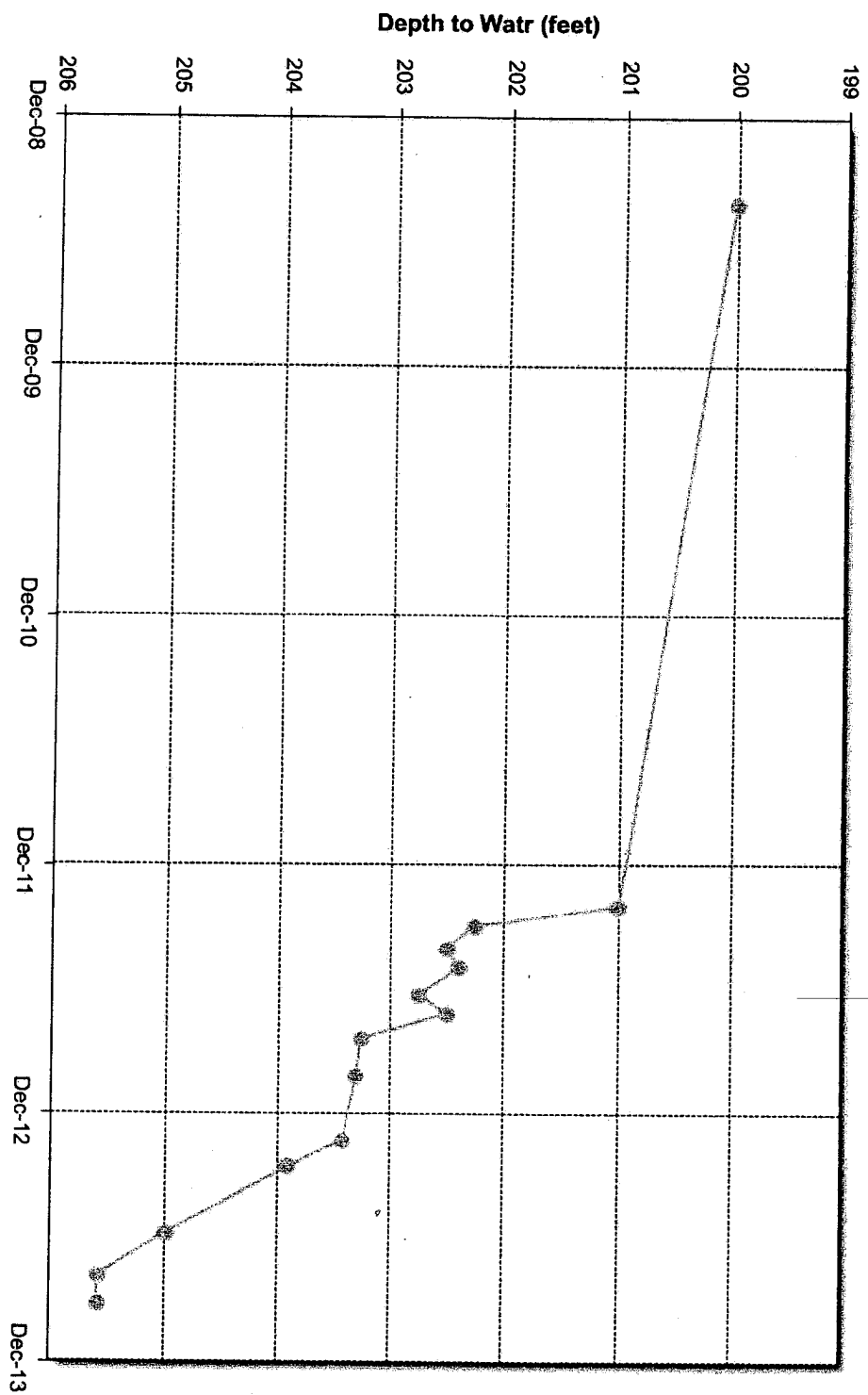
Agricultural Land Zoned for Agriculture

-  Currently Irrigated Cropland
-  Parcel 5 acres or less with house
-  Potentially Irrigated Cropland
-  Groundwater Basin
-  Ridgecrest City Limit
-  NAWS Boundary

January 2014

TODD ENGINEERS
Alameda, California

Figure 15
Potentially Irrigated
Cropland



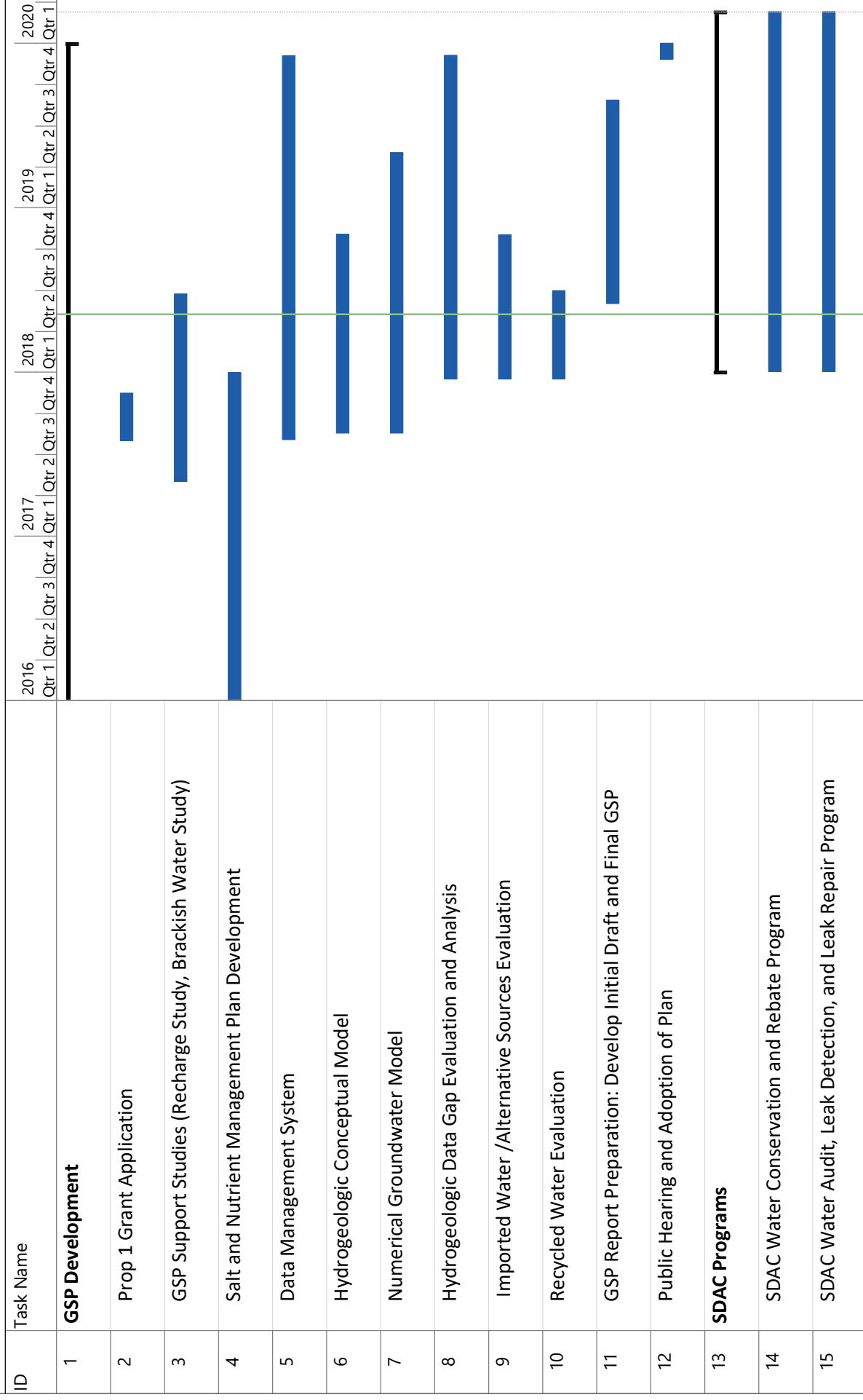
January 2014
TODD ENGINEERS
Alameda, California

Figure 17
Water level in a
Domestic Well Near New
Agricultural Pumping

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Exhibit 4: Groundwater Sustainability Plan Schedule

Indian Wells Valley Groundwater Authority
GSP Development and SDAC Programs: Schedule Summary 05.09.18



INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Exhibit 5: Methods to Quantify/Report Groundwater Production

Indian Wells Valley Groundwater Authority

Methods to Quantify/Report Groundwater Production

The Indian Wells Valley Groundwater Authority (GA) is considering the adoption of a “groundwater pumping fee”, under the Sustainable Groundwater Management Act (SGMA), and California Water Code Division 6 Part 2.74 Chapter 8 Section 10730. The GA Board has set a GA Board meeting and public workshop to publicly discuss the planned groundwater pumping fee.

In order to levy this fee, the GA must collect information on active wells within the Indian Wells Valley groundwater basin and collect information on the quantity of water pumped from each relevant well. SGMA provides that wells pumping two (2) acre-feet per year of water or less are considered “de minimis” pumping and will not be subject to this fee (one acre-foot per year is approximately equivalent to 900 gallons per day). In addition, since SGMA is a state-mandated regulation, it is not enforceable upon federal agencies. Accordingly, any pumping by the United States Navy and the U.S. Department of Interior Bureau of Land Management (BLM) is excluded from this fee.

Quantify/Reporting Groundwater Pumping

The accuracy and completeness of groundwater pumping information within the Indian Wells Valley groundwater basin is extremely important to the GA’s mandate to manage groundwater supplies. The GA strongly recommends that all wells owners within the basin install and maintain accurate water meters on the discharge of all wells.

When the GA adopts a DWR-approved Groundwater Sustainability Plan (GSP) for the basin, the GA will be in a position to require accurate water meters be installed and maintained on all wells. This requirement is expected to be established during 2020.

It is anticipated the Board will consider adopting this fee at its June 2018 Board meeting. If adopted at the June 2018 Board meeting, the first month of groundwater pumping subject to the groundwater pumping fee would be August 2018.

The GA staff is collecting information on all wells within the basin and associated groundwater pumping. The most current list of wells and water systems potentially subject to the groundwater pumping fee is provided in Exhibit 6. The GA staff will continue to update the well and water system listing to make it complete and accurate.

For basin wells with meters, well owners would submit production data to the GA. For basin wells subject to fees without accurate water meters, the monthly groundwater production must be determined using “alternative methods for reporting groundwater pumping”. For wells without accurate water meters, the following alternative methods may be employed by the GA staff to determine monthly groundwater pumping for GA fee pumpers:

1. Electric Power Use. The well, or wells, must have dedicated electric power meters for the well, or wells (no other power use associated with electric meters). The well owner will provide monthly electric power use for each and a wells served by the electric meter. The GA staff will convert electronic power use to acre-feet of water pumped for GA fee purposes. (Similar procedure for wells powered by other sources.)
2. Agricultural Use Estimates. For agricultural-use estimates, the well owner must identify all wells used for agricultural irrigation. The well owner must provide accurate agricultural acreage and type of agriculture. The GA staff will use this agricultural information to estimate annual and monthly groundwater pumping. The methods and references used by the GA staff will be provided to the well owner.
3. Comparable Use to Metered Well(s). The GA staff will consider using groundwater pumping information from “metered” wells, for “comparable” uses from “non-measured” wells, based upon the GA staff’s determination of comparability.

Well owners with “non-metered” wells are reminded that if there is dispute with GA staff regarding water use estimates using “alternative methods”, the well owner can elect to install an accurate water meter on their well. The GA will provide assistance to the extent it is capable.

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Exhibit 6: Listing of IWV Wells and Water Systems

(As of May 31, 2018. Listing updated periodically as needed.)

INDIAN WELLS VALLEY GROUNDWATER BASIN WELL/SYSTEM LISTING

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION		
WELLS IN SAN BERNARDINO COUNTY								
Dale Robinson			Individual\ Domestic					
John Lamb			Individual\ Domestic					
Jorge M. Gonzalez			Individual\ Domestic					
WELLS IN INYO COUNTY								
Pearsonville Water System ^{8/}	CA1400043		Commercial	100	20			
			Commercial					
			Commercial					
			Commercial					
			Commercial					
			Commercial					
			Well 1N			Commercial /		
			Well 2S			Restaurant		
						Residential		
						Residential		
Permitted Water System			Residential					
			Residential					
			Residential					
			Vacant					
			Commercial					
			Commercial					
			Residential					
			Residential					
			Institutional					
			Residential					
Structure Present -- Well Status Unknown			Residential					
			Industrial					
			Residential					
			Vacant					
			Residential					
			Residential					
WELLS IN KERN COUNTY								
KNOWN LARGE PURVEYORS								
INDIAN WELLS VALLEY WATER DISTRICT ^{1/3/8/9/}	CA1510017	WP0007175	Public	29,791	11,771	6,412 ^{4/}		
		WP0009366	Public					
		WP0013790	Agricultural					
		9a						
		10						
		11						
		13						
		17						
		18						
		30						
		31						
		33						
		34						
		35 (planned operation in 2019)						

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
City of Ridgecrest ^{2/}		26S40E29R				
		26S40E34F				
		26S40E34N01				373 ^{4/}
		27S40E04A01				
		27S40E05H				
Inyokern CSD ^{2/8a/}	CA1510036	Well 1 (inactive)	Residential	984	265	102 ^{4/}
		Well 2 (standby)				
		Well 3				
MAX HOVATEN ^{3/}		WP0012086	Agricultural			
		WP0014919	Private			
		WP0006416	Private			480 ^{5/}
		WP0014918				
		WP0010853	Agricultural			
MEADOWBROOK DAIRY ^{3/}		WP0009179	Agricultural			
		WP0013993	Private			6,387 ^{4/}
		WP0013816				
		WP0014367	Agricultural			
		WP0013180	Agricultural			
MOJAVE PISTACHIO / RTS AGRI BUSINESS ^{3/}		WP0014430	Agricultural			
		WP0013792	Agricultural			325 ^{5/}
		IWV Well #2				
		IWV Well #4				
		IWV Well #30				
Searles Valley ^{1a/}		IWV Well #35				
		IWV Well #36				2,377 ^{4/}
		WP0002793	Private			
		WP0014955	Agricultural			750 ^{4/}
		WP0013257	Agricultural			
Simmons Ranch / Jack Simmons ^{3/}						918 ^{4/}
Sierra Shadows Ranch / John Thomas Conaway ^{3/}		WP0014708	Agricultural			373 ^{5/}
		WP0014649	Agricultural			
Amber Glow Ranch / Patricia Davis ^{3/}		WP0014940	Agricultural			48 ^{3/}
Art Hickie (Hickle Family Trust) ^{3/}		WP0013463	Agricultural			85 ^{5/}
<u>Lists of Mutuals/ State Small Systems</u>						
Brady's Café and Mini Mart ^{8/}				50	3	
Buttermilk Acres ^{8/9/}	CA1502695	Well 1	Residential	60	2	
Caspar Water System ^{7/9/11/}		WA0001115		8		
China Lake Acres Mutual Water Company ^{2/8/9/}	CA1500563	WELL 1	Residential	60	60	
		WELL 2	Residential	60	60	
		WA0000473		12	6	
Crestview Water System ^{7/9/}						
Del Sol Water Co-Op ^{9/10/}						
Desert Sands Mutual Water Co-Op / Randal Smith ^{7/8/}		WP0016863 / WA0000439	Private	15	5	
Dixie Water Company ^{9/10/}						
Domestic Water System ^{9/10/}						
DONNA SUE WATER CO-OP ^{37/8/}		WP0001344 / WA0001403	Non-Public	24	14	
Dune III Mutual Water Company ^{8/9}	CA1502690	Well 1	Residential	119	36	
		Well 2				

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
Dune I Water ^{7/}		WA0000544		15	9	
Dune V Water ^{7/}		WA0000552		24	8	
East Inyokern Mutual Water ^{8/9/}	CA1500554	Well 1 (Nadine West)	Residential	87	28	
		Well 2 (Nadine East)	Residential	87	28	
El Solana Trailer Park ^{9/10/}				85		
Ferran Water System ^{7/9/}		WA0000527		21	10	
Gateway Market Water System ^{8/9/}	CA1502673	Well 1	Recreation/ CM	104	2	
Gilbert Mutual Water Company ^{7/9/}		WA0000541		31	7	
Hammar Water Co-Op ^{7/}		WA0001267		17	9	
Hometown Water Association ^{8/9/}	CA1500564	Well 1 (Main)	Residential	25	12	
IAC Water Company ^{7/9/10/}		WA0006627		60	8	
Indian Wells Lodge ^{8/9/}	CA1502418	Spring 1	Commercial	47	4	
Jumper St Water Co-op ^{7/7/9/}		WP0000513 / WA0000543	Public	12	7	
LIFE WATER CO-OP ^{3/8/9/}	CA1500579	WP0011908	Public	27	18	
		Well 1 (standby)				
		Well 2				
LELITER CO-OP WATER SYSTEM ^{3/7/11/}		WP0000764 / WA0001478	Private		8	
Mirage St Water Co-Op ^{7/}		WA0000553		13	5	
Owens Peak South ^{8/9/}	CA1502659	Well 1		40	17	
Owens Peak West ^{8/9/}	CA1502608	Well 1 - West		60	24	
Pinon Water System ^{3/7/}		WP0000050 / WA0000540	Public	7	7	
Pluto West Water Co ^{3/7/9/10/}		WP0000043 / WA00000536	Private	16	8	
		WP0008060 / WA0000536	Private			
				100	3	
Ridgecrest Christian Fellowship ^{9/10/}				102		
Sandy's Oasis Mobile Home Park ^{9/10/}						
SIERRA BREEZE MUTUAL WATER CO ^{3/8/9/}	CA1500447	WP0011177	Public	150	60	
		Well 2	Residential			
		Well 3				
South Desert Mutual Water Company ^{8/9/}	CA1502619	Well 1	Residential	26	13	
	CA1500591	Well 1	Residential	47	15	
Sweet Water Co-Op ^{8/9/}		WA0000567			5	
Warren Water System ^{7/}		WP0011598	Public	70	41	
	CA1500550	Well 1	Residential			
		Well 2		20	8	
		WA0000537				
Yellow Bird Water Co-Op ^{7/9/}						
Lists of Non-Public Systems						
1112 WELL SHARING AGREEMENT ^{7/}		WA0001541			2	
412 NORTH JACKS RANCH WELL ^{3/7/}		WP0001327 / WA0001257	Non-Public		4	
		WP0001332 / WA0001257	Non-Public			
415 N Primavera Well ^{7/}		WA0001082			4	
750 N Primavera Well ^{7/}		WA0001214			2	
A-1 WATER COMPANY ^{3/7/}		WP0002145 / WA0001468	Non-Public		4	
B & B Water System ^{7/}		WA0000100			3	
Barrel Cactus Water System ^{7/}		WA0000625			2	
Bass Water System ^{7/}		WA0000089			3	
Bergman Water Company ^{3/7/}		WP0008156 / WA00000626	Private/Agriculture			
BILL CORLEY ^{3/}		WP0009682	Non-Public			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
Blub Water Co-op ^{3/7/}		WP0004222 / WA0001125	Non-Public		4	
		WP0004353 / WA0001048	Private		2	
		WP0003223 / WA0001048	Private		3	
Brown Coyote Water System ^{3/7/}		WP0000055 / WA0000622	Private		4	
		WA0000628			4	
		WP0000113 / WA0000974	Private		2	
COLE FAMILY WELL ^{7/}		WA0001260			2	
		WA0000591			3	
		WA0000771			3	
Conrad Water System ^{7/}						
Cordova Acres Water System ^{7/}						
GAYLE SWINGROVER / Crystal Clear Co-op System ^{7/}		WP0012002 / WA0000694	Private		2	
		WA0000592			4	
		WP0001324 / WA0000935	Non-Public		4	
Dune II ^{7/}						
Dune VI ^{3/7/}		WA0001107			4	
		WA0000681			4	
		WA0001087			4	
Fairchild #5 ^{7/}						
Fairchild #6 ^{7/}						
Felspar Water Company ^{7/}		WA0000682			3	
		WA0000610			4	
		WA0000942				
Fiddaments Fourty ^{7/}						
Galaxy Water Company ^{7/}						
Grand View Water System ^{3/7/}		WP0000512 / WA0000631	Private		2	
		WP0000437 / WA0000812	Private		2	
		WA0001139				
Greenmun Water System ^{3/7/}						
Guamward Water Co ^{7/}						
Haas Water System ^{3/7/}		WP0000078 / WA0000813	Non-Public		4	
			Private		4	
KEN WILSON / Hawk Solo Water System ^{7/}		WP0015736 / WA0000571	Private		4	
J One Water Well ^{3/7/}		WP0008455 / WA0001253	Private		4	
MIKE WEST / J.E. West Water Co-op ^{7/}		WP0010652/WA0001017	Private			
Jiggy's Water System ^{7/}		WA0000088			4	
		WP0014057	Non-Public			
JOHN BARNES ^{3/}						
JRRLF WATER CO ^{7/}		WA0001502			4	
KARIN JAIN ^{3/}		WP0009832	Non-Public			
Kern Buckel Water System ^{3/7/}		WP0000173 / WA0000804	Private		4	
LC Water System ^{3/7/}		WP0007148 / WA0001135	Private			
Little Dipper Water System ^{3/7/}		WP0001834 / WA0000668	Non-Public		4	
Lone Star Water Company ^{3/7/}		WP0000072 / WA0001016	Private		4	
		WP0006605 / WA0001016	Private			
LOSCAR WELL WORKS ^{7/}		WA0001413			4	
Mahan & Reeves Water System ^{7/}		WA0000717			2	
Martin & Kelch Water Co ^{3/7/}		WP0008428 / WA0000689	Private			
		WP0000047 / WA0000689	Private		2	
		WP0003708 / WA0000689	Public			
MERTZ CONSTRUCTION WATER SYSTEM ^{7/}						
Monache Water Cooperative ^{7/}		WA0001495			2	
		WA0001038			4	
Norcrest Water Company ^{7/}		WA0000639			4	
Oasis Water System ^{3/7/}		WP0000101 / WA0000612	Private		4	
Pappe Water System ^{7/}		WA0000608			4	
PARCEL MAP 5105 MUTUAL WATER COMPANY ^{7/}		WA0001528			4	
Parcel Map 6775 ^{7/}		WA0000693			4	

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
JAMES LLOYD / Parcel Map 8609 ^{7/}	3/	WP0000176 / WA00000822	Non-Public		4	
Petty Water System ^{7/}		WP0013181	Private			
RED ROSE WATER SUPPLY ^{7/}		WA0000598			2	
Renfroe Water System ^{7/}		WA00001427			2	
RICHARD MOE ^{3/7/}		WA00000621			2	
SILENT HILLS WATER CO ^{3/7/}		WP0000728 / WA00001197	Non-Public	10	4	
Skogs Water System ^{3/7/}		WP0000123 / WA00000730	Private		3	
SMITH WATER SYSTEM ^{3/7/}		WP0000456 / WA00000829	Non-Public		4	
Soi-Wind Water Company+A638 ^{7/}		WP00008435 / WA00001296	Private		4	
CALVIN FALLGATTER / STARGAZER RANCH SYSTEM #1 ^{7/}	3/	WA00000650			3	
Thor Water System ^{7/}		WP00009200/WA00001217	Private		4	
Tumbleweed Water Company ^{3/7/}		WA00000603			2	
WALTER SIEBERT	3/	WP0001670 / WA00000837	Private		4	
Warkentin Water System ^{3/7/}		WP0010414	Non-Public			
Warren WATER SYSTEM 2 ^{3/7/}		WP0001445 / WA00000619	Non-Public			
W/R Water Company ^{3/7/}		WP0009192 / WA00001338	Private		4	
Well Association #277 ^{7/}		WP00000081 / WA00000655	Private		4	
Wildflower Water Company ^{7/}		WA00001067			4	
WILLIAM GREEDY	3/	WA00000867			4	
		WP0010415	Non-Public			
OTHER WELLS ^{6/}						
CIRCLE M FARMING	3/	WP0013182	Agricultural			
ERNEST BELL	3/	WP0011509	Agricultural			
MICHAEL MCGEE BUSINESS TRUST	3/	WP0015442	Agricultural			
MICHELLE RICTER	3/	WP0007892	Agricultural			
NTSP LLC	3/	WP0014684	Agricultural			
PATRICK BLUBAUGH	3/	WP0014943	Agricultural			
DESERT MEMORIAL PARK	3/	WP0016032	Irrigation			
PG&E CHRIS EDERER	3/	WP0017300	Catholic Protection			
NANCI ATCHLEY	3/	WP0012526	Deepen			
RANDEL LANGLOSS	3/	WP0010085	Non-Public			
VERDUZCO, GLORIA ANGELICA	3/	WP0010251	Non-Public			
WALTER SIEBERT	3/	WP0010414	Non-Public			
A R SANDY POULIN	3/	WP00008740	Private			
ALBERT LEROY	3/	WP0013201	Private			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
ALFRED CRAVER	3/	WP0009996	Private			
ANTHONY BARNHARDT	3/	WP0010046	Private			
ARLO MUELLER	3/	WP0009683	Private			
BRADLEY BROWN	3/	WP0012075	Private			
BRANSON JOHN AND MELANIE	3/	WP0007274	Private			
BREEDLOVE KEVIN	3/	WP0007775	Private			
BYRON SELF	3/	WP0010060	Private			
CAREY CURT AND PEGGY	3/	WP0009312	Private			
CHESTER CORNELIUS	3/	WP0009527	Private			
CHRIS GIBBS	3/	WP0007915	Private			
CHRISTINE KLEIN	3/	WP0013512	Private			
CHRISTOPHER M WINFIELD	3/	WP0008153	Private			
CHUCK PATTERSON	3/	WP0009287	Private			
CLARENCE TAYLOR	3/	WP0009342	Private			
CORDELL CONSTRUCTION	3/	WP0013307	Private			
CORDELL CONSTRUCTION	3/	WP0013351	Private			
DANICA NOVAK	3/	WP0011030	Private			
DANIEL JIMENEZ	3/	WP0010105	Private			
DANIEL NELSON	3/	WP0008500	Private			
DAVID PEARSON	3/	WP0010743	Private			
DIXIE STARR	3/	WP0009860	Private			
DONALD L DECKER	3/	WP0011136	Private			
ED WINCHESTER	3/	WP0011008	Private			
EDITH J HRESCHAK	3/	WP0010217	Private			
EDWARD STULER	3/	WP0010857	Private			
FRANK J. BELLINO	3/	WP0009562	Private			
FRANK SENTELL	3/	WP0009577	Private			
GARY HERTEG	3/	WP0008575	Private			
GAYLE SWINGROVER	3/	WP0012002	Private			
GEORGE BERTRAND	3/	WP0012480	Private			
GEORGE MARTIN	3/	WP0008437	Private			
GEORGE TURNER	3/	WP0012567	Private			
GERALD AND KAREN STUTHERS	3/	WP0009057	Private			
HARLAN KOOIMA	3/	WP0012105	Private			
HARRY MERTZ	3/	WP0009575	Private			
HARRY MERTZ	3/	WP0009576	Private			
HENRY HESS	3/	WP0013043	Private			
JACQUELINE WARREN	3/	WP0011479	Private			
James E. Lovern	3/	WP0009344	Private			
JAMES MURRAY	3/	WP0009823	Private			
JAMES WILLIAMS	3/	WP0012409	Private			
JASON STULER	3/	WP0010281	Private			
JASON ZEHENDENER	3/	WP0010651	Private			
JEFF NICHOLS	3/	WP0008833	Private			
JILL PARKS	3/	WP0012518	Private			
JOHN CARR	3/	WP0011178	Private			
JOHN GRAY	3/	WP0012488	Private			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
JOHN ROBERTS	3/	WP0009991	Private			
JOHNNY KEEL	3/	WP0010766	Private			
JOSE MONTOYA	3/	WP0009750	Private			
JOSEPH DAUPLAISE	3/	WP0010291	Private			
JOSEPH WALLACK	3/	WP0010704	Private			
KARL OLMSTEAD	3/	WP0010646	Private			
KINGE OKAUCHI	3/	WP0012494	Private			
KIRSCHENMANS DRILLING	3/	WP0010249	Private			
LARRY BASS	3/	WP0012019	Private			
LARRY MEAD	3/	WP0009245	Private			
LARRY WAGNER	3/	WP0011011	Private			
MARGARET PORTER	3/	WP0010927	Private			
MICHAEL MORRIS	3/	WP0007741	Private			
MICHAEL ROBERTSON	3/	WP0010877	Private			
MICHELE JUSTUS	3/	WP0011148	Private			
OTTO BLOWERS	3/	WP0012448	Private			
PAT MOORE WATER CO	3/	WP0008182	Private			
PATRICIA MCGUIRE	3/	WP0009222	Private			
PATRICK BLUBAUGH	3/	WP0010858	Private			
PAUL DECKER	3/	WP0014116	Private			
PETE WOLT	3/	WP0009339	Private			
PETER CHILBES JR	3/	WP0014945	Private			
PRICILLA WAGNER	3/	WP0009607	Private			
RENDY JOE SISK	3/	WP0000397	Private			
RICHARD WOODALL	3/	WP0011342	Private			
RICHARD WOODALL	3/	WP0011342	Private			
RICK MILLER	3/	WP0014647	Private			
ROBERT CANNING	3/	WP0015443	Private			
ROBERT DICKSON	3/	WP0009574	Private			
ROBERT REDDITT	3/	WP0010795	Private			
ROBERT ROONEY	3/	WP0009548	Private			
ROBERT SNYDER	3/	WP0009822	Private			
ROBIN TORGERSON	3/	WP0009963	Private			
RODNEY SNODGRASS	3/	WP0013643	Private			
RON SCHILLER	3/	WP0009142	Private			
RONALD PAGE	3/	WP0000431	Private			
ROXIE KLETT	3/	WP0010132	Private			
ROXIE KLETT	3/	WP0010132	Private			
RUSS MATHEWSON	3/	WP0010631	Private			
RUTH AMSTER	3/	WP0012911	Private			
SCOTT JOHNSTONE	3/	WP0010210	Private			
SCOTT POKKRANDT	3/	WP0012474	Private			
SF INVESTMENTS LLC	3/	WP0007433	Private			
SHELBY KING	3/	WP0009278	Private			
STEPHEN AMBROSIOUS	3/	WP0009525	Private			
TERRY CAFEFE	3/	WP0009379	Private			
THOMAS HULL	3/	WP0015374	Private			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
THOMAS MCCOY	3/	WP0011664	Private			
TIMOTHY CROSBY	3/	WP0009135	Private			
TODD A EVANS	3/	WP0013594	Private			
TODD MCKINNEY	3/	WP0007811	Private			
TOM LARA	3/	WP0012656	Private			
TOM MARCUS	3/	WP0012024	Private			
TONY MEGLA	3/	WP0002595	Private			
VIRGINIA MARTIN	3/	WP0006344	Private			
WALTER BURFEINDT	3/	WP0009281	Private			
WARREN HAGEMAN	3/	WP0013459	Private			
WEST EPIC	3/	WP0009765	Private			
SYBIL TURNER	3/	WP0010028	Public			
no well owner provided	3/	WP0007177	Agricultural			
no well owner provided	3/	WP0008259	Agricultural			
no well owner provided	3/	WP0008224	Agricultural			
no well owner provided	3/	WP0009074	Agricultural			
no well owner provided	3/	WP0000319	Agricultural			
no well owner provided	3/	WP0001832	Industrial			
no well owner provided	3/	WP0001639	Industrial			
no well owner provided	3/	WP0008830	Catholic Protection			
no well owner provided	3/	WP0006300	Catholic Protection			
no well owner provided	3/	WP0006669	Catholic Protection			
no well owner provided	3/	WP0001422	Deepen			
no well owner provided	3/	WP0001423	Deepen			
no well owner provided	3/	WP0003820	Non-Public			
no well owner provided	3/	WP0000866	Non-Public			
no well owner provided	3/	WP0003304	Non-Public			
no well owner provided	3/	WP0003207	Non-Public			
no well owner provided	3/	WP0001476	Non-Public			
no well owner provided	3/	WP0001827	Non-Public			
no well owner provided	3/	WP0000733	Non-Public			
no well owner provided	3/	WP0001643	Non-Public			
no well owner provided	3/	WP0001305	Non-Public			
no well owner provided	3/	WP0001264	Non-Public			
no well owner provided	3/	WP0004151	Non-Public			
no well owner provided	3/	WP0003961	Non-Public			
no well owner provided	3/	WP0003962	Non-Public			
no well owner provided	3/	WP0001148	Non-Public			
no well owner provided	3/	WP0001396	Non-Public			
no well owner provided	3/	WP0001003	Non-Public			
no well owner provided	3/	WP0000181	Non-Public			
no well owner provided	3/	WP0000461	Non-Public			
no well owner provided	3/	WP0003424	Non-Public			
no well owner provided	3/	WP0003425	Non-Public			
no well owner provided	3/	WP0001686	Non-Public			
no well owner provided	3/	WP0000917	Non-Public			
no well owner provided	3/	WP0001231	Non-Public			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
no well owner provided	3/	WP0002511	Non-Public			
no well owner provided	3/	WP0003217	Non-Public			
no well owner provided	3/	WP0001790	Non-Public			
no well owner provided	3/	WP0000924	Non-Public			
no well owner provided	3/	WP0000702	Non-Public			
no well owner provided	3/	WP0000433	Non-Public			
no well owner provided	3/	WP0000097	Non-Public			
no well owner provided	3/	WP0001408	Non-Public			
no well owner provided	3/	WP0000506	Non-Public			
no well owner provided	3/	WP0001455	Non-Public			
no well owner provided	3/	WP0003464	Non-Public			
no well owner provided	3/	WP0001126	Non-Public			
no well owner provided	3/	WP0001769	Private			
no well owner provided	3/	WP0002535	Private			
no well owner provided	3/	WP0002650	Private			
no well owner provided	3/	WP0002932	Private			
no well owner provided	3/	WP0008889	Private			
no well owner provided	3/	WP0008227	Private			
no well owner provided	3/	WP0008950	Private			
no well owner provided	3/	WP0003667	Private			
no well owner provided	3/	WP0002675	Private			
no well owner provided	3/	WP0008163	Private			
no well owner provided	3/	WP0002983	Private			
no well owner provided	3/	WP0006110	Private			
no well owner provided	3/	WP0000525	Private			
no well owner provided	3/	WP0000076	Private			
no well owner provided	3/	WP0000637	Private			
no well owner provided	3/	WP0005339	Private			
no well owner provided	3/	WP0000068	Private			
no well owner provided	3/	WP0004168	Private			
no well owner provided	3/	WP0003031	Private			
no well owner provided	3/	WP0004496	Private			
no well owner provided	3/	WP0004985	Private			
no well owner provided	3/	WP0000085	Private			
no well owner provided	3/	WP0000555	Private			
no well owner provided	3/	WP0004946	Private			
no well owner provided	3/	WP0004947	Private			
no well owner provided	3/	WP0001517	Private			
no well owner provided	3/	WP0007294	Private			
no well owner provided	3/	WP0005570	Private			
no well owner provided	3/	WP0005571	Private			
no well owner provided	3/	WP0000500	Private			
no well owner provided	3/	WP0000090	Private			
no well owner provided	3/	WP0000082	Private			
no well owner provided	3/	WP0005356	Private			
no well owner provided	3/	WP0008600	Private			
no well owner provided	3/	WP0007572	Private			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
no well owner provided	3/	WP0000067	Private			
no well owner provided	3/	WP0000483	Private			
no well owner provided	3/	WP0000060	Private			
no well owner provided	3/	WP0000578	Private			
no well owner provided	3/	WP00005832	Private			
no well owner provided	3/	WP0005884	Private			
no well owner provided	3/	WP0004871	Private			
no well owner provided	3/	WP0007729	Private			
no well owner provided	3/	WP0001162	Private			
no well owner provided	3/	WP0004610	Private			
no well owner provided	3/	WP0005613	Private			
no well owner provided	3/	WP0005614	Private			
no well owner provided	3/	WP0000019	Private			
no well owner provided	3/	WP00000654	Private			
no well owner provided	3/	WP0003479	Private			
no well owner provided	3/	WP0005387	Private			
no well owner provided	3/	WP0000833	Private			
no well owner provided	3/	WP0002792	Private			
no well owner provided	3/	WP0001791	Private			
no well owner provided	3/	WP0003815	Private			
no well owner provided	3/	WP0000544	Private			
no well owner provided	3/	WP0000503	Private			
no well owner provided	3/	WP0003851	Private			
no well owner provided	3/	WP0001842	Private			
no well owner provided	3/	WP0001843	Private			
no well owner provided	3/	WP0001917	Private			
no well owner provided	3/	WP0006352	Private			
no well owner provided	3/	WP0000585	Private			
no well owner provided	3/	WP0001973	Private			
no well owner provided	3/	WP0004182	Private			
no well owner provided	3/	WP0002036	Private			
no well owner provided	3/	WP0000172	Private			
no well owner provided	3/	WP0000502	Private			
no well owner provided	3/	WP0004183	Private			
no well owner provided	3/	WP0004431	Private			
no well owner provided	3/	WP0004432	Private			
no well owner provided	3/	WP0004235	Private			
no well owner provided	3/	WP0001191	Private			
no well owner provided	3/	WP0001343	Private			
no well owner provided	3/	WP0006926	Private			
no well owner provided	3/	WP0000989	Private			
no well owner provided	3/	WP0004583	Private			
no well owner provided	3/	WP0006836	Private			
no well owner provided	3/	WP0001345	Private			
no well owner provided	3/	WP0001081	Private			
no well owner provided	3/	WP0000507	Private			
no well owner provided	3/	WP0002337	Private			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
no well owner provided	3/	WP0008291	Private			
no well owner provided	3/	WP0000115	Private			
no well owner provided	3/	WP0008868	Private			
no well owner provided	3/	WP0001268	Private			
no well owner provided	3/	WP0000922	Private			
no well owner provided	3/	WP0005588	Private			
no well owner provided	3/	WP0008852	Private			
no well owner provided	3/	WP0004159	Private			
no well owner provided	3/	WP0004160	Private			
no well owner provided	3/	WP0004577	Private			
no well owner provided	3/	WP0004578	Private			
no well owner provided	3/	WP0000083	Private			
no well owner provided	3/	WP0005267	Private			
no well owner provided	3/	WP0003409	Private			
no well owner provided	3/	WP0008519	Private			
no well owner provided	3/	WP0000092	Private			
no well owner provided	3/	WP0003484	Private			
no well owner provided	3/	WP0003186	Private			
no well owner provided	3/	WP0003274	Private			
no well owner provided	3/	WP0003639	Private			
no well owner provided	3/	WP0003640	Private			
no well owner provided	3/	WP0000457	Private			
no well owner provided	3/	WP0000255	Private			
no well owner provided	3/	WP0009150	Private			
no well owner provided	3/	WP0004646	Private			
no well owner provided	3/	WP0004877	Private			
no well owner provided	3/	WP0004884	Private			
no well owner provided	3/	WP0004499	Private			
no well owner provided	3/	WP0000442	Private			
no well owner provided	3/	WP0005386	Private			
no well owner provided	3/	WP0003050	Private			
no well owner provided	3/	WP0005896	Private			
no well owner provided	3/	WP0001310	Private			
no well owner provided	3/	WP0001150	Private			
no well owner provided	3/	WP0007151	Private			
no well owner provided	3/	WP0000687	Private			
no well owner provided	3/	WP0000086	Private			
no well owner provided	3/	WP0005302	Private			
no well owner provided	3/	WP0005303	Private			
no well owner provided	3/	WP0005296	Private			
no well owner provided	3/	WP0005297	Private			
no well owner provided	3/	WP0005298	Private			
no well owner provided	3/	WP0004769	Private			
no well owner provided	3/	WP0003845	Private			
no well owner provided	3/	WP0000988	Private			
no well owner provided	3/	WP0000522	Private			
no well owner provided	3/	WP0000435	Private			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
no well owner provided	3/	WP0004715	Private			
no well owner provided	3/	WP0006351	Private			
no well owner provided	3/	WP0004162	Private			
no well owner provided	3/	WP0001810	Private			
no well owner provided	3/	WP0002534	Private			
no well owner provided	3/	WP0006921	Private			
no well owner provided	3/	WP0001471	Private			
no well owner provided	3/	WP0000780	Private			
no well owner provided	3/	WP0003927	Private			
no well owner provided	3/	WP0000035	Private			
no well owner provided	3/	WP0006818	Private			
no well owner provided	3/	WP0008820	Private			
no well owner provided	3/	WP0008144	Private			
no well owner provided	3/	WP0001846	Private			
no well owner provided	3/	WP0000132	Private			
no well owner provided	3/	WP0006090	Private			
no well owner provided	3/	WP0001630	Private			
no well owner provided	3/	WP0004257	Private			
no well owner provided	3/	WP0004743	Private			
no well owner provided	3/	WP0008710	Private			
no well owner provided	3/	WP0001600	Private			
no well owner provided	3/	WP0001601	Private			
no well owner provided	3/	WP0008678	Private			
no well owner provided	3/	WP0007668	Private			
no well owner provided	3/	WP0008962	Private			
no well owner provided	3/	WP0003023	Private			
no well owner provided	3/	WP0002213	Private			
no well owner provided	3/	WP0006877	Private			
no well owner provided	3/	WP0004147	Private			
no well owner provided	3/	WP0004161	Private			
no well owner provided	3/	WP0000335	Private			
no well owner provided	3/	WP0004506	Private			
no well owner provided	3/	WP0008052	Private			
no well owner provided	3/	WP0000071	Private			
no well owner provided	3/	WP0002933	Private			
no well owner provided	3/	WP0005599	Private			
no well owner provided	3/	WP0005600	Private			
no well owner provided	3/	WP0000532	Private			
no well owner provided	3/	WP0000063	Private			
no well owner provided	3/	WP0000648	Private			
no well owner provided	3/	WP0000793	Private			
no well owner provided	3/	WP0004545	Private			
no well owner provided	3/	WP0003924	Private			
no well owner provided	3/	WP0003816	Private			
no well owner provided	3/	WP0004187	Private			
no well owner provided	3/	WP0004761	Private			
no well owner provided	3/	WP0004084	Private			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
no well owner provided	3/	WP0000017	Private			
no well owner provided	3/	WP0000138	Private			
no well owner provided	3/	WP0000074	Private			
no well owner provided	3/	WP00004622	Private			
no well owner provided	3/	WP00004294	Private			
no well owner provided	3/	WP0008805	Private			
no well owner provided	3/	WP00004858	Private			
no well owner provided	3/	WP00004859	Private			
no well owner provided	3/	WP0001002	Private			
no well owner provided	3/	WP00004018	Private			
no well owner provided	3/	WP00004019	Private			
no well owner provided	3/	WP00004088	Private			
no well owner provided	3/	WP00000075	Private			
no well owner provided	3/	WP00009065	Private			
no well owner provided	3/	WP0002667	Private			
no well owner provided	3/	WP0005677	Private			
no well owner provided	3/	WP0005678	Private			
no well owner provided	3/	WP00000036	Private			
no well owner provided	3/	WP0000895	Private			
no well owner provided	3/	WP0001559	Private			
no well owner provided	3/	WP00004085	Private			
no well owner provided	3/	WP0008444	Private			
no well owner provided	3/	WP00000073	Private			
no well owner provided	3/	WP0007912	Private			
no well owner provided	3/	WP0007583	Private			
no well owner provided	3/	WP0000692	Private			
no well owner provided	3/	WP00000065	Private			
no well owner provided	3/	WP00008194	Private			
no well owner provided	3/	WP0000792	Private			
no well owner provided	3/	WP00004407	Private			
no well owner provided	3/	WP00006572	Private			
no well owner provided	3/	WP00004083	Private			
no well owner provided	3/	WP0003682	Private			
no well owner provided	3/	WP00009211	Private			
no well owner provided	3/	WP00005196	Private			
no well owner provided	3/	WP0001771	Private			
no well owner provided	3/	WP0001265	Private			
no well owner provided	3/	WP0000581	Private			
no well owner provided	3/	WP0003067	Private			
no well owner provided	3/	WP0001370	Private			
no well owner provided	3/	WP0003392	Private			
no well owner provided	3/	WP0006539	Private			
no well owner provided	3/	WP0000749	Private			
no well owner provided	3/	WP0001854	Private			
no well owner provided	3/	WP00000045	Private			
no well owner provided	3/	WP0000536	Private			
no well owner provided	3/	WP0006567	Private			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
no well owner provided	3/	WP0001881	Private			
no well owner provided	3/	WP0004900	Private			
no well owner provided	3/	WP0008636	Private			
no well owner provided	3/	WP0001851	Public			
no well owner provided	3/	WP0000434	Public			
no well owner provided	3/	WP0008225	Public			
no well owner provided	3/	WP0001113	Public			
no well owner provided	3/	WP0000439	Public			
no well owner provided	3/	WP0000980	Public			
no well owner provided	3/	WP0001607	Public			
no well owner provided	3/	WP0000033	Public			
no well owner provided	3/	WP0000175	Public			
no well owner provided	3/	WP0005924	Public			
no well owner provided	3/	WP00005925	Public			
no well owner provided	3/	WP0000925	Public			
no well owner provided	3/	WP0000588	Public			
no well owner provided	3/	WP0001446	Public			
no well owner provided	3/	WP0000527	Public			
no well owner provided	3/	WP0002336	Public			
no well owner provided	3/	WP0001021	Public			
no well owner provided	3/	WP0003237	Public			
no well owner provided	3/	WP0001935	Public			
no well owner provided	3/	WP0001172	Public			
no well owner provided	3/	WP0001755	Public			
no well owner provided	3/	WP0002116	Public			
no well owner provided	3/	WP0004704	Public			
no well owner provided	3/	WP0002160	Public			
no well owner provided	3/	WP0000105	Public			
no well owner provided	3/	WP0001669	Public			
no well owner provided	3/	WP0003236	Public			
no well owner provided	3/	WP0000674	Public			
no well owner provided	3/	WP0000448	Public			
no well owner provided	3/	WP0000059	Public			
no well owner provided	3/	WP0005454	Public			
no well owner provided	3/	WP0002894	Public			
no well owner provided	3/	WP0000256	Public			
no well owner provided	3/	WP0001798	Public			
no well owner provided	3/	WP0000950	Public			
no well owner provided	3/	WP0000110	Public			
no well owner provided	3/	WP0001922	Public			
no well owner provided	3/	WP0000161	Public			
no well owner provided	3/	WP0000724	Public			
no well owner provided	3/	WP0000477	Public			
no well owner provided	3/	WP00001201	Public			
no well owner provided	3/	WP0001947	Public			
no well owner provided	3/	WP0001888	Public			
no well owner provided	3/	WP00001149	Public			

WELL OWNER/WATER SYSTEM	DDW WATER SYSTEM NUMBER	WELL NAME/ PERMIT NUMBER	INTENDED USE / TYPE	POPULATION SERVED	NO. OF CONNECTIONS	PRODUCTION
<i>no well owner provided</i>	3/	WP0002031	Public			
<i>no well owner provided</i>	3/	WP0001173	Public			
<i>no well owner provided</i>	3/	WP0000494	Public			
<i>no well owner provided</i>	3/	WP0000436	Public			
<i>no well owner provided</i>	3/	WP0001948	Public			
<i>no well owner provided</i>	3/	WP0001591	Public			
<i>no well owner provided</i>	3/	WP0002581	Public			

Notes

- 1/ Wells provided by water purveyor.
- 2/ Wells provided in DRI Report.
- 3/ Wells provided in Kern County Environmental Health Database. (Provided in March 2018 and revised per IWVGA Staff/TAC/PAC as directed.)
- 4/ Production data from Cooperative Group IWV Ground Water Production Estimates 1975-Present. Calendar Year 2016 Data.
- 5/ Production from IWV Farmers Group Letter to Kern County dated March 4, 2014. 2013 Data.
- 6/ Unidentified wells could be part of other systems (i.e. mutuals, non-public, or small).
- 7/ Data from Kern County. (Provided in March 2018 and revised per IWVGA Staff/TAC/PAC as directed.)
- 8/ Data from State Water Board Safe Drinking Water Information System (SDWIS) database. (Accessed April and May 2018.)
- 9/ Info from Donna Thomas's list of Mutuals/Small Water Systems.
- 10/ Info from small business website. (Accessed April and May 2018.)
- 11/ Data from Kern County indicates non-public system; however, listed as mutual/state small systems because more than 4 connections.