

# **Owens Valley Groundwater Authority**

#### **Board Members:**

INDIAN CREEK-WESTRIDGE CSD	Luis Elias	BIG PINE CSD	BryAnna Vaughan
CITY OF BISHOP	Karen Kong	LONE PINE PAIUTE SHOSHONE TRIBE	Mel Joseph
COUNTY OF INYO	Scott Marcellin	<b>OWENS VALLEY COMMITTEE</b>	Mary Roper

January 30, 2024

The Owens Valley Groundwater Authority Special Meeting was called to order at 10:06 am via zoom.

#### 1. Pledge of allegiance

Scott Marcellin led the pledge of allegiance.

#### 2. Public Comment

The Chairperson opened the public comment period and there was no one wishing to address the Board.

#### 3. Introductions

The Board introduced themselves with all Board members in attendance.

#### 4. Amendment to the 2023-24 OVGA budget

Dr. Alpert stated she has brought forward a Budget Amendment to increase the 2023-24 OVGA budget by \$36,000 to allow for the contract with Daniel B Stephens & Associates to produce the Water Year 2022 OVGA Annual Report and provide a template for future reports to be utilized by the Water Department as well as database management services. Motion to increase the 2023-24 budget by \$36,000 by Mary Roper, seconded by Mel Joseph. The Chairperson requested a roll call vote; Scott Marcellin – Y, Luis Elias – Y, Karen Kong – Y, Mel Joseph - Y, BryAnna Vaughan – Y, Mary Roper – Y. Motion passed.

#### 5. Discussion of agenda items for annual OVGA meeting

Dr. Alpert stated the annual meeting will be held on March 14, 2024, at 2:00pm. She stated the items she had were the 2024-25 budget; presentation of the annual report; the process for discussing and approving annual reports; and an update on the well registration process. BryAnna Vaughan asked for an update on the progress of the plan, election of officers, and an audit, and Karen Kong requested future plans for the OVGA. Luis Elias asked about the working relationship with the consultants, Dr. Alpert stated they are very responsive.

#### 6. Adjourn

The Chairperson adjourned the meeting at approximately 10:25 am.



# **Owens Valley Groundwater** Authority

#### **Board Members:**

INDIAN CREEK-WESTRIDGE CSD	Luis Elias	BIG PINE CSD	BryAnna Vaughan
CITY OF BISHOP	Karen Kong	LONE PINE PAIUTE SHOSHONE TRIBE	Mel Joseph
COUNTY OF INYO	Scott Marcellin	<b>OWENS VALLEY COMMITTEE</b>	Mary Roper

#### March 9, 2023

The Owens Valley Groundwater Authority meeting was called to order at approximately 2:05 pm at the Bishop City Council Chambers, Bishop, CA.

#### **Pledge of allegiance** 1.

Scott Marcellin led the pledge of allegiance.

#### **Public Comment** 2.

The Chairperson opened the public comment period and there was no one wishing to address the Board.

#### Introductions 3.

The Board introduced themselves with one new member in attendance, Scott Marcelin for Inyo County and BryAnna Vaughan and Mary Roper absent.

#### Approval of minutes from September 15, 2022 4.

Motion to approve the September 15, 2022, minutes by Mel Joseph, seconded by Luis Elias. The Chairperson requested a roll call vote; Luis Elias - Y, Karen Kong - Y, Scott Marcellin - Y, BryAnna Vaughan - absent, Mel Joseph – Y, Mary Roper - absent. Motion passed 4 Yes, 2 absent.

#### 5. Board Member Reports

Mel Joseph provided information Earth Day presented by the Lone Pine Paiute Shoshone Tribe on April 29, 2023.

#### **OVGA Staff Reports** 6.

a. Financial Report

Laura Piper provided the financial report and stated the OVGA cash balance is \$281,028.68 with 1<sup>st</sup> quarter interest revenue of \$406.02; expenses were insurance \$2,440, copy charges \$44.53, advertising \$268.15, consultant costs \$1,200, and staff services costs of \$13,094.41.

- b. Update on the Proposition 1 grant completion. Dr. Steinwand stated DWR continues to work through the approval of the invoices; the final reports were submitted to the state last April; and we are still waiting for the approximately \$70,000 retention payment.
- c. Status of the 2019-2020 and 2020-2021 audits. Dr. Steinwand stated the audits had been completed,

and there were no substantive findings. One more audit may need to be in the budget for the final grant funding.

#### 7. Direction to staff regarding the deadline in Ordinance 2022-01 for owners to register wells

Dr. Steinwand provided a brief background on this item and the Board approved the recommendation by staff to move the registration deadline to April 1, 2024; post the form to the OVGA website; and follow up with a direct mailer.

#### 8. OVGA annual report

Dr. Steinwand provided a staff report and provided a brief outline of the contents of the proposed annual report and a summary of the current status. The Board approved the outline Aaron submitted.

#### 9. Presentation of draft 2023-2024 budget and consideration of a final budget

Dr. Steinwand provided a staff report and gave a brief discussion on the OVGA budget for July 1, 2023 through June 30, 2024 and the process for approval. The Board and staff discussed this item in detail. The Board requested a six-month update via email on the status of how many well permits would be received to date at that time. The Chairperson requested a vote to approve the 2023-2024 OVGA budget; Motion passed.

#### 10. Election of OVGA Chairperson and Vice-Chairperson

Mel Joseph recommended the Chairperson and Vice Chairperson remain as is. The Chairperson opened nominations for the Chairperson; motion by the Board to nominate Karen Kong as Chairperson, motion passed.

The Chairperson opened nominations for the Vice-Chairperson; motion by the Board to nominate BryAnna as Vice-Chairperson, motion passed.

#### 11. Schedule 2023 or 2024 meetings

The next meeting was scheduled for March 14, 2024.

#### 10. Adjourn

The Chairperson adjourned the meeting at approximately 2:45 pm.

 COUNTY OF INYO
 Short
 [T R A N S A C T I O N L I S T I N G]
 07/01/2023 - 02/29/2024
 Page 1

 THU, MAR 07, 2024, 9:34 AM --req: HW0254---leg: GL ---loc: AUD-----job:3594716 J392----prog: GL440 <1.61>--report id: GLFLTR02

SORT ORDER: OBJECT within BUDUNIT

SELECT FUND: 6272

Lg BUDGET UNIT	Primary Ref	Transaction Description	SS	Ref Date	Job No	Debit	Credit	NET
DE PERSENSERSESSE			==					
GL 621601-1000	YEAREND	1. Balance Forward 2022-2023	JE	07/01/23	03566088	346.870.22	0.00	346.870.22
GL 621601-1000	INTRCBL	AutoID: JH23731D Job: 3461884	JE	07/15/23	03461884	1.349.34	0.00	348.219.56
GL 621601-1000	TTLOH	AutoID:WD23907B Job:3491436	OH	09/13/23	03491436	0.00	250 00	347 969 56
GL 621601-1000	JE45441	AutoID: JG23C26B Job: 3516636	JE	10/26/23	03516636	0.00	4.500.00	343 469 56
GL 621601-1000	INTEREST	AutoID: JH23N09Z Job: 3525441	JΈ	10/31/23	03525441	1 468 85	4,500.00	344 938 41
GL 621601-1000	TTLOH	AutoID: SW23C31C Job: 3519662	OH	11/01/23	03519662	1,400.00	3 176 00	341 762 41
GL 621601-1000	TTLOH	AutoID:MS23D01G Job: 3536980	OH	12/05/23	03536980	0.00	4 421 25	227 241 16
GL 621601-1000	TTLOH	AutoID:SW23D26A Job:3550658	OH	12/28/23	03550658	0.00	9 400 00	337,341.10
GL 621601-1000	TTLOH	AutoID:SW24119B Job:3565322	੦ਸ	01/19/24	03565333	0.00	4 072 50	320,941.10
GL 621601-1000	JE46099	AutoID: JS24122A Job: 3566502	TE	01/22/24	03505522	0,00	4,972.50	343,900.00
GL 621601-1000	INTEREST	AutoID: JH24126C Job: 3570160	TE	01/22/24	03566502	1 071 14	6,134.39	317,834.27
*****Total *OBJT 1000	1112 BILLOI	CLAIM ON CASH	UБ	01/20/24	03570160	1,931,14	0.00	319,765.41
10004 0201 1000		CLAIM ON CASH			DR	351,619.55	31,854.14	319,765.41
GL 621601-1160	YEAREND	1. Balance Forward 2022-2023	JE	07/01/23	03566088	1,349,34	0.00	1.349.34
GL 621601-1160	INTRCBL	4th QTR INTEREST RVRS	JE	07/15/23	03461884	0.00	1 349 34	0.00
******Total *OBJT 1160		INTEREST RECEIVABLE			DR	1.349.34	1 349 34	0.00
					Dit	1,549.94	1,549.54	0.00
GL 621601-1200	YEAREND	1. Balance Forward 2022-2023	JE	07/01/23	03566088	2,433.00	0.00	2,433.00
GL 621601-1200	2324 PREPAID	MA1335:GOLDEN STATE RISK MANAG	ĴΕ	07/11/23	03446045	0.00	2,433.00	0.00
******Total *OBJT 1200		PREPAID EXPENSES			DR	2,433.00	2,433.00	0.00
<b>GT</b> (21(01 2000	TOT ON							
GL 621601-2000	TTLOH	AutoID:WD23907B Job:3489961	OH	09/11/23	03489961	0.00	250.00	250.00
GL 621601-2000	TTLOH	AutoID:WD23907B Job:3491436	OH	09/13/23	03491436	250.00	0.00	0.00
GL 621601-2000	TTLOH	AutoID:SW23C31C Job:3519100	OH	10/31/23	03519100	0.00	3,176.00	3,176.00
GL 621601-2000	TTLOH	AutoID:SW23C31C Job:3519662	OH	11/01/23	03519662	3,176.00	0.00	0.00
GL 621601-2000	TTLOH	AutoID:MS23D01G Job:3536598	OH	12/04/23	03536598	0.00	4,421.25	4,421.25
GL 621601-2000	TTLOH	AutoID:MS23D01G Job:3536980	OH	12/05/23	03536980	4,421.25	0.00	0.00
GL 621601-2000	TTLOH	AutoID:SW23D26A Job:3550552	OH	12/28/23	03550552	0.00	8,400.00	8,400.00
GL 621601-2000	TTLOH	AutoID:SW23D26A Job:3550658	OH	12/28/23	03550658	8,400.00	0.00	0.00
GL 621601-2000	TTLOH	AutoID:SW24119B Job:3565119	OH	01/19/24	03565119	0.00	4,972.50	4,972.50
GL 621601-2000	TTLOH	AutoID:SW24119B Job:3565322	OH	01/19/24	03565322	4,972,50	0.00	0.00
******Total *OBJT 2000		ACCOUNTS PAYABLE			CR	21,219.75	21,219.75	0.00
GT (21(01 3000	10000							
GL 621601-3000	YEAREND	1. Balance Forward 2022-2023	JE	07/01/23	03566088	0.00	350,652.56	350,652.56
AND AN IOLAL AOBUL 3000		FUND BALANCE AVAILAB	LΕ		CR	0.00	350,652.56	350,652.56
GL 621601-4301	INTEREST	1ST OTR 23/24 INTEREST	JE	10/31/23	03525441	0.00	1 169 95	1 160 95
GL 621601-4301	INTEREST	2ND OTR 23/24 INTEREST	.12	01/26/24	03570160	0.00	1 001 14	1,400.00
******Total *OBJT 4301		TNTEREST FROM TREASU	DV	01/20/24	03270100	0.00	1,931.14	3,399.99
		INTEREST FROM TREASO	K I		CR	0.00	3,399.99	3,399.99
GL 621601-5155	2324 PREPAID	MA1335:GOLDEN STATE RISK MANAG	JE	07/11/23	03446045	2,433.00	0.00	2,433.00
******Total *OBJT 5155		PUBLIC LIABILITY INS	URA	NCE	DR	2.433.00	0.00	2,433.00
						2,100100	0100	5,100100
GL 621601-5265	8137	ALPEN ARETE INYO COUNTY WATER	OH	09/11/23	03489961	250.00	0.00	250.00
GL 621601-5265	264814	DANIEL B STEPHE P# DB23.1300.0	OH	10/31/23	03519100	3.176.00	0.00	3.426.00
GL 621601-5265	265578	DANIEL B STEPHE P# DB23.1300.0	OH	12/04/23	03536598	4,421.25	0.00	7,847.25
GL 621601-5265	266044	DANIEL B STEPHE P# DB23.1300.0	OH	12/28/23	03550552	8,400 00	0.00	16.247 25
GL 621601-5265	266596	DANIEL B STEPHE P# DB23.1300.0	OH	01/19/24	03565119	4,972 50	0.00	21 219 75
******Total *OBJT 5265		PROFESSIONAL & SPECI	AL	SERVICE	DR	21.219.75	0.00	21.219.75
				-		,,	5.00	,,
GL 621601-5539	JE45441	JUL-SEP23 OVGA LEGAL SVCS	JE	10/26/23	03516636	4,500.00	0.00	4,500.00
								-

COUNTY OF INYO Budget to Actuals with Encumbrances by Key/Obj As Of 2/29/2024

Ledger: GL

Object	Descripti	00	Budget	Actual	Encumbrance	Balance	%
Key: 621601 - (	<b>OVGA-OWEN</b>	IS VALLEY GROUNDWATER					
Revenue							
4301	INTERES	ST FROM TREASURY	1,500.00	3,399.99	0.00	(1,899.99)	226.66
	<b>Revenue Tota</b>	li	1,500.00	3,399.99	00.00	(1, 899.99)	226.66
Expenditure							
5129	<b>INTERN</b>	AL COPY CHARGES (NON-IS)	500.00	0.00	0.00	500.00	0.00
5155	PUBLIC	LIABILITY INSURANCE	2,500.00	2,433.00	0.00	67.00	97.32
5263	ADVERT	ISING	1,500.00	0.00	0.00	1,500.00	00.00
5265	<b>PROFES</b>	SIONAL & SPECIAL SERVICE	43,500.00	21,219.75	11,509.25	10,771.00	75.23
5311	GENERA	L OPERATING EXPENSE	500.00	0.00	0.00	500.00	00.0
5539	OTHER /	AGENCY CONTRIBUTIONS	26,310.00	10,634.39	0.00	15,675.61	40.41
	Expenditure [	Fotal:	74,810.00	34,287.14	11,509.25	29,013.61	61.21
	621601	Key Total:	(146,620.00)	(61, 774.30)	(23,018.50)	(61,827.20)	
		1					

#### COUNTY OF INYO

#### UNDESIGNATED FUND BALANCES sorted by FUND NAME

#### AS OF 06/30/2024

		Claim on Cash 1000	Accounts Receivable 1100,1105,1160	Loans Receivable 1140	Prepaid Expenses 1200	Accounts Payable 2000	Loans Payable 2140	Deferred Revenue 2200	Computed Fund Balance	Encumbrances	Fund Balance Undesignated
WDIR	- WATER										
6272 0	VGA-OWENS VALLEY GROUNDWAT	ER 312,022							312,022	3,766	308,256
WDIR	Totals	312,022							312,022	3,766	308,256
	Grand Totals	312,022							312,022	3,766	308,256

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CALIFORNIA DEPARTMENT OF WATER RESOURCES SUSTAINABLE GROUNDWATER MANAGEMENT OFFICE 715 P Street, 8th Floor | Sacramento, CA 95814 | P.O. Box 942836 | Sacramento, CA 94236-0001

January 31, 2024

Tim Moore Inyo County Water Department 135 S. Jackson Street P.O. Box 337 Independence, CA 93526 tmoore@inyocounty.us

RE: Owens Valley – Owens Valley Subbasin - Groundwater Sustainability Plan

Dear Tim Moore,

The Owens Valley Groundwater Authority Groundwater Sustainability Agency (GSA) submitted to the Department of Water Resources (Department) for evaluation, the Owens Valley Basin Groundwater Sustainability Plan (GSP or Plan) covering the Owens Valley – Owens Valley and Owens Valley – Fish Slough Subbasins. The Owens Valley – Owens Valley Subbasin and Owens Valley – Fish Slough Subbasin are designated by the Department as low-priority and very low-priority, respectively. Therefore, these subbasins are not required to be managed under a GSP and are not subject to state intervention under Chapter 11 of the Sustainable Groundwater Management Act (SGMA). However, SGMA encourages and authorizes basins designated as low- and very low-priority to be managed under a GSP. The Department appreciates the Owens Valley Groundwater Authority GSA voluntarily submitting a GSP for the Owens Valley – Owens Valley and Owens Valley – Fish Slough Subbasins. This letter is to acknowledge receipt of the GSP and provide an update regarding the Department's evaluation and assessment of the GSP.

The Department has prioritized the evaluation of GSPs submitted for medium- and highpriority basins to meet statutory deadlines for those plans in which state intervention applies. The Department will evaluate GSPs submitted for low- and very low-priority basins now that the evaluation of medium- and high-priority-basin GSPs has been completed and will provide assessments and determinations as soon as practicable. In the meantime, the Department encourages the Owens Valley Groundwater Authority GSA to continue implementing its GSP and providing information to the Department through annual report submittals by April 1. The Department appreciates your patience and should you have any questions, please contact the Sustainable Groundwater Management Office by emailing sgmps@water.ca.gov.

Thank you,

faul Cosselin Paul Gosselin Deputy Director of Sustainable Groundwater Management



Join DWR as we celebrate the 10th Anniversary of SGMA during **Groundwater Awareness Week** March 10-16, 2024

# **SAVE THE DATE**

### Online events will take place March 11-March 15, 2024

### Monday, March 11, 11:00 a.m. -12:30 p.m.

Hear about the progress made over the first 10 years of the Sustainable Groundwater Management Act (SGMA). State-local partnerships and innovative projects are putting more water into the ground and are helping to ensure current and long-term water supply resiliency for communities, businesses and environmental habitats that are dependent on groundwater. **Speakers include DWR Director, Karla Nemeth and SGMO Deputy Director, Paul Gosselin** 

GSA

Trainings

#### Tuesday, March 12, 10:00 - 11:30 a.m.

Community Outreach and Engagement Training for GSAs Wednesday, March 13, 10:00 -11:30 a.m.

Community Outreach and Engagement Training for GSAs

#### Thursday, March 14, noon -1:00 p.m.

Learn about the groundwater sustainability plan reporting and submittal process

#### Friday, March 15, noon -1:00 p.m.

Planning ahead for the next decade of SGMA, Data Collection, and Modeling

Registration for these events will be coming soon–watch your inbox! Be sure to follow DWR's social media channels during Groundwater Awareness Week!





### **OWENS VALLEY GROUNDWATER AUTHORITY**

Members: Big Pine CSD — City of Bishop — County of Inyo— Indian Creek-Westridge CSD Interested Parties: Lone Pine Paiute Shoshone Tribe – Owens Valley Committee

P.O. Box 337 135 Jackson Street Independence, CA 93526 Phone: (760) 878-0001 Fax: (760) 878-2552 www.inyowater.org

Staff Report

Date: March 14, 2024

Subject: Agenda item #8: Presentation of draft 2024-2025 OVGA Budget

On October 23, 2017, the Board of Directors adopted an initial three-year Development Budget which outlined the expected expenditures to prepare the GSP and guide members' decisions regarding funding contributions. The Development Budget and the associated funding obligations were terminated when the GSP was adopted by the OVGA (Member Funding Agreements, Item 3). The Joint Powers Agreement (JPA) requires the Executive Manager to present a draft annual budget to the OVGA Board of Directors and each of the Members by April 1 (Article III, Section 3.1.7). This staff report presents the 2024-2025 draft annual budget. A final budget must be adopted by a majority of the votes of the OVGA Directors on or before May 1 (Article I, Section 5.8), and it is recommended the Board consider adopting the final budget at this meeting.

The draft budget for the period of July 1, 2024, through June 30, 2025, is presented in Table 1. The expected amount of interest on OVGA accounts was based on the most recent quarter. No revenues from member contributions were included in the draft budget. It is not a requirement to provide funding to remain a Member of the OVGA. If the Executive Manager is notified that an agency is willing to provide funds, the budget will be revised and the vote shares recalculated in accordance with Article IV, Section 2 of the JPA. If no Members provide a contribution in fiscal year 2024-25, each will have two votes, and Interested Parties will have one vote each.

The primary expenditures in the draft budget are staff and professional services (Table 1). Expenses for the Executive Manager are more than in the 2023-2024 budget but less than in years prior to that. Executive Manager tasks include those required by the JPA and Bylaws, meeting preparation, tracking developments in SGMA implementation, annual data acquisition at Representative Monitoring Sites, reporting to DWR, well permit review, well registration data collection and entry, and administrative tasks. The hours necessary to complete those management actions were estimated from similar work performed during the GSP development or professional judgment. Hourly rates

were based on Inyo County Water Department current salaries and benefits; no overhead or profit were included.

It is anticipated that future meetings may be coordinated with the City of Bishop, and the budget includes funds for staff assistance that may be necessary.

Legal services and Fiscal Agent services are performed by Inyo County under separate contracts. Estimates for legal services were based on the monthly flat rate in the current Inyo County Counsel contract but only for months with meetings or when tasks to complete management actions are required. The Fiscal Agent cost is unchanged.

Additional services from other providers included in the budget were the same as in previous years. General liability insurance is unchanged from last year's budget. Professional services include website and database maintenance and assistance with the annual report. The database is currently hosted on DBS&A servers and includes limited technical support. Miscellaneous expenses are based on previous budgets or actual expenditures from recent years.

The OVGA Bylaws (Article VII, Section 1) require that the projected expenses not exceed projected revenues. The 2024-25 draft budget would be balanced by relying on approximately \$70,160 from the existing fund balance.

#### **Staff Recommendation**

The Board will receive a presentation of the 2024-2025 budget. OVGA staff recommends approval of the 2024-2025 budget as written.

Table 1: Draft FY 2024-25 OVGA budget.

Revenues	
Interest from treasury	\$3,000
Other Agencies (member contributions)	\$0
Fund balance transfer	\$67,160
Total Revenue	\$70,160
Expenditures	
Fiscal Services	
Insurance	\$2,500
Subtotal	\$2,500
Staff Services	
Executive Manager – Water Dept.	\$25,410
Staff services – Bishop	\$2,000
Agency: Inyo, Legal	\$4,500
Agency: Inyo, Fiscal Agent/Financial	\$4,000
Svcs	
Subtotal	\$35,910
Professional Services	
Website Maintenance	\$1,000
Technical Services	\$25,000
Database Hosting	\$2,000
Subtotal	\$28,000
Miscellaneous Expenses	
Internal Copy Charges	\$50
Advertising/mailer	\$300
Office Space & Site Rental	\$400
General Operating	\$500
Zoom Account	\$0
Subtotal	\$1,250
Contingencies	\$5,000
Total	\$70,160



### **OWENS VALLEY GROUNDWATER AUTHORITY**

Members: Big Pine CSD — City of Bishop — County of Inyo— Indian Creek-Westridge CSD Interested Parties: Lone Pine Paiute Shoshone Tribe – Owens Valley Committee

P.O. Box 337 135 Jackson Street Independence, CA 93526 Phone: (760) 878-0001 Fax: (760) 878-2552 www.inyowater.org

Staff Report

Date: March 14, 2024

Subject: Agenda item #9: Staff services contract updates

The OVGA holds several contracts for services provided by staff from Inyo County and the City of Bishop. The OVGA Executive Manager performed a review of these contracts ahead of the annual meeting to look for any updates that were needed. Attachment B (Schedule of Fees) of the Executive Manager contract, which includes three staff members from the Inyo County Water Department, was updated to reflect changes in staffing and responsibilities as well as hourly rates.

#### **Staff Recommendation**

OVGA staff recommends approval of the updated Executive Manager contract.

#### AGREEMENT BETWEEN THE OWENS VALLEY GROUNDWATER AUTHORITY AND THE COUNTY OF INYO FOR THE PROVISION OF EXECUTIVE MANAGER SERVICES

WHEREAS, the Owens Valley Groundwater Authority (hereinafter referred to as "OVGA") has the need for the Executive Manager services of the County of Inyo, a political subdivision of the State of California (hereinafter referred to as a "Contractor"), and in consideration of the mutual promises, covenants, terms, and conditions hereinafter contained, the parties hereby agree as follows:

#### **TERMS AND CONDITIONS**

#### 1. SCOPE OF WORK.

The Contractor shall furnish to the OVGA, upon its request, those services and work set forth in Attachment **A**, attached hereto and by reference incorporated herein. Requests by the OVGA to the Contractor to perform under this Agreement will be made by the OVGA Board and shall be directed to Holly Alpert on behalf of the Contractor (or such other individual as the Contractor may designate from time to time). The parties agree that Holly Alpert (or such other individual as may be designated by the Contractor) shall be the titular Executive Manager for any purposes where it is necessary to an individual person to act as the Executive Manager in order to perform the services and work set forth in Attachment A. Requests to the Contractor for work or services to be performed under this Agreement will be based upon the OVGA's need for such services. The OVGA makes no guarantee or warranty, of any nature, that any minimum level or amount of services or work will be requested of the Contractor by the OVGA under this Agreement. OVGA by this Agreement incurs no obligation or requirement to request from Contractor the performance of any services or work at all, even if the OVGA should have some need for such services or work during the term of this Agreement.

Services and work provided by the Contractor at the OVGA's request under this Agreement will be performed in a manner consistent with the requirements and standards established by applicable federal, state, and OVGA laws, ordinances, regulations, and resolutions. Such laws, ordinances, regulations, and resolutions include, but are not limited to, those which are referred to in this Agreement.

#### 2. TERM.

Effective as of March 14, 2024, Contractor shall provide services to the OVGA through the Inyo County Water Department when and if requested by the OVGA. This Agreement shall remain in full force and effect until terminated by any party, with or without cause, by supplying 30 days' written notice of termination to the other party.

#### 3. CONSIDERATION.

A. <u>Compensation.</u> Services and work set forth in Attachment A shall be billed on an hourly basis according to the rates established in Attachment B up to the annual limit specified in Section 3.D., which is based on the parties' good-faith estimate of the County's average monthly costs of providing such services over a typical 12-month period. On or before July 1, 2024 and every July 1<sup>st</sup> thereafter, the Contractor and the OVGA may review and discuss whether an adjustment to said compensation may be appropriate. Any agreed upon adjustments shall be memorialized in writing and incorporated into this Agreement by this reference. Invoices for services shall be sent to OVGA in care of its Auditor-Controller on a quarterly basis, or at such other intervals as may be mutually agreeable to the parties. Invoices shall contain descriptions of work performed and time spent.

Owens Valley Groundwater Authority (Independent Contractor) Page 1

Modified Contract 118 10/22/2018 B. <u>Travel and per diem.</u> – OVGA shall reimburse Contractor for the travel expenses and per diem which Contractor incurs in providing services and work requested by the OVGA under this Agreement. Contractor shall request approval by the OVGA prior to incurring any travel or per diem expenses. Requests by Contractor for approval to incur travel and per diem expenses shall be submitted to the OVGA Executive Manager. Travel and per diem expenses will be reimbursed in accordance with the rates set forth in the Schedule of Travel and Per Diem Payment (Attachment C). OVGA reserves the right to deny reimbursement to Contractor for travel or per diem expenses which are either in excess of the amounts that may be paid under the rates set forth in Attachment B, or which are incurred by the Contractor without the prior approval of the OVGA.

C. <u>No additional consideration</u>. Except as expressly provided in this Agreement, Contractor shall not be entitled to, nor receive, from OVGA, any additional consideration, compensation, salary, wages, or other type of remuneration for services rendered under this Agreement. Specifically, Contractor shall not be entitled, by virtue of this Agreement, to consideration in the form of overtime, health insurance benefits,

retirement benefits, disability retirement benefits, sick leave, vacation time, paid holidays, or other paid leaves of absence of any type or kind whatsoever.

D. <u>Limit upon amount payable under Agreement.</u> The total sum of all payments made by the OVGA to Contractor for services and work performed under this Agreement, including travel and per diem expenses, if any, shall not exceed <u>\$70,160 – Seventy thousand one hundred sixty</u> (hereinafter referred to as "contract limit"). OVGA expressly reserves the right todeny any payment or reimbursement requested by Contractor for services or work performed, including travel or per diem, which is in excess of the contract limit.

E. <u>Billing and payment</u>. Contractor shall submit to the OVGA, quarterly, an itemized statement of all hours spent by Contractor in performing services and work described in attachment A, which were done at the OVGA's request. This statement will be submitted to the OVGA not later than 30 days following the end of the quarter. The statement to be submitted will cover the period from the first (1<sup>st</sup>) day of the preceding quarter through and including the last day of the preceding month. This statement will identify the date on which the hours were worked and describe the nature of the work which was performed on each day. Contractor's statement to the OVGA will also include an itemization of any travel or per diem expenses, which have been approved in advance by the OVGA, and incurred by the Contractor during that period. The itemized statement for travel expenses and per diem will include receipts for lodging, meals, and other incidental expenses in accordance with the OVGA's accounting procedures and rules. The OVGA shall make a good-faith effort to issue payment to Contractor within 30 days but reserves the right to vary the payment schedule in order to manage finances. The Con tractor shall be notified of the expected payment date in writing should the payment schedule be altered.

F. <u>Federal and State taxes</u>.

(1) Except as provided in subparagraph (2) below, OVGA will not withhold any federal or state income taxes or social security from any payments made by OVGA to Contractor under the terms and conditions of this Agreement.

(2) OVGA will withhold California State income taxes from payments made under this Agreement to non-California resident independent contractors when it is anticipated that total annual payments to Contractor under this Agreement will exceed one thousand four hundred ninety nine dollars (\$1,499.00).

(3) Except as set forth above, OVGA has no obligation to withhold any taxes or payments from sums paid by OVGA to Contractor under this Agreement. Payment of all taxes and other assessments on such sums is the sole responsibility of Contractor. OVGA has no responsibility or liability for payment of Contractor's taxes or assessments.

(4) The total amounts paid by OVGA to Contractor, and taxes withheld from payments to non-California residents, if any, will be reported annually to the Internal Revenue Service and the California State Franchise Tax Board. To facilitate this reporting, Contractor shall complete and submit to the OVGA an Internal Revenue Service (IRS) Form W-9 upon executing this Agreement.

#### 4. WORK SCHEDULE.

Contractor's obligation is to perform, in a timely manner, those services and work identified in Attachment A which are requested by the OVGA

#### 5. REQUIRED LICENSES, CERTIFICATES, AND PERMITS.

A. Any licenses, certificates, or permits required by the federal, state, county, or municipal governments for contractor to provide the services and work described in attachment **A** must be procured by Contractor and be valid at the time Contractor enters into this Agreement or as otherwise may be required. Further, during the term of this Agreement, Contractor must maintain such licenses, certificates, and permits in full force and effect. Licenses, certificates, and permits may include, but are not limited to, driver's licenses, professional licenses or certificates, and business licenses. Such licenses, certificates, and permits

will be procured and maintained in force by Contractor at no expense to the OVGA. Contractor will provide OVGA, upon execution of this Agreement, with evidence of current and valid licenses, certificates and permits which are required to perform the services identified in Attachment **A**. Where there is a dispute between Contractor and OVGA as to what licenses, certificates, and permits are required to perform the services identified in Attachment **A** between Contractor and OVGA as to what licenses, certificates, and permits are required to perform the services identified in Attachment **A**, OVGA reserves the right to make such determinations for purposes of this Agreement.

B. Contractor warrants that it is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in covered transactions by any federal department or agency. Contractor also warrants that it is not suspended or debarred from receiving federal funds as listed in the List of Parties Excluded from Federal Procurement or Non-procurement Programs issued by the General Services Administration available at: <u>http://www.sam.gov</u>.

#### 6. OFFICE SPACE, SUPPLIES, EQUIPMENT, ETC.

Contractor shall provide such office space, supplies, equipment, vehicles, reference materials, and telephone service as is necessary for Contractor to provide the services identified in Attachment A to this Agreement. OVGA is not obligated to reimburse or pay Contractor, for any expense or cost incurred by Contractor in procuring or maintaining such items. Responsibility for the costs and expenses incurred by Contractor in providing and maintaining such items is the sole responsibility and obligation of Contractor.

#### 7. OVGA PROPERTY.

A. <u>Personal Property of OVGA</u>. Any personal property such as, but not limited to, protective or safety devices, badges, identification cards, keys, etc. provided to Contractor by OVGA pursuant to this Agreement are, and at the termination of this Agreement remain, the sole and exclusive property of OVGA. Contractor will use reasonable care to protect, safeguard and maintain such items while they are in Contractor's possession. Contractor will be financially responsible for any loss or damage to such items, partial or total, which is the result of Contractor's negligence.

B. <u>Products of Contractor's Work and Services</u>. Any and all compositions, publications, plans, designs, specifications, blueprints, maps, formulas, processes, photographs, slides, video tapes, computer programs, computer disks, computer tapes, memory chips, soundtracks, audio recordings, films, audio-visual presentations, exhibits, reports, studies, works of art, inventions, patents, trademarks, copyrights, or intellectual properties of any kind which are created, produced, assembled, compiled by, or are the result, product, or manifestation of, Contractor's services or work under this Agreement are, and at the termination of this Agreement remain, the sole and exclusive property of the OVGA. At the termination of the

Agreement, Contractor will convey possession and title to all such properties to OVGA.

#### 8. WORKERS' COMPENSATION.

Contractor shall provide Statutory California Worker's Compensation coverage and Employer's Liability coverage for not less than \$1,000,000 per occurrence for all employees engaged in services or operations under this Agreement. The OVGA, its agents, officers and employees shall be named as additional insured or a waiver of subrogation shall be provided.

#### 9. INSURANCE.

For the duration of this Agreement Contractor shall procure and maintain insurance of the scope and amount specified in Attachment **D** and with the provisions specified in that attachment.

#### 10. STATUS OF CONTRACTOR.

All acts of Contractor, its agents, officers, and employees, relating to the performance of this Agreement, shall be performed as independent contractors, and not as agents, officers, or employees of OVGA. Contractor, by virtue of this Agreement, has no authority to bind or incur any obligation on behalf of

OVGA. Except as expressly provided in Attachment **A**, Contractor has no authority or responsibility to exercise any rights or power vested in the OVGA. No agent, officer, or employee of the Contractor is to be considered an employee of OVGA. It is understood by both Contractor and OVGA that this Agreement shall not under any circumstances be construed or considered to create an employer-employee relationship or a joint venture. As an independent contractor:

A. Contractor shall determine the method, details, and means of performing the work and services to be provided by Contractor under this Agreement.

B. Contractor shall be responsible to OVGA only for the requirements and results specified in this Agreement, and except as expressly provided in this Agreement, shall not be subjected to OVGA's control with respect to the physical action or activities of Contractor in fulfillment of this Agreement.

C. Contractor, its agents, officers, and employees are, and at all times during the term of this Agreement shall, represent and conduct themselves as independent contractors, and not as employees of OVGA.

#### 11. DEFENSE AND INDEMNIFICATION.

Contractor shall hold harmless, defend and indemnify OVGA and its officers, officials, employees and volunteers from and against any and all liability, loss, damage, expense, costs (including without limitation costs and fees of litigation) of every nature arising out of or in connection with Contractor's performance of work hereunder or its failure to comply with any of its obligations contained in the Agreement, to the extent permitted by law, and except such loss or damages which was caused by the sole negligence or willful misconduct of the OVGA. These obligations shall not extend to the OVGA's adoption of, or the OVGA's implementation of, the GSP.

#### 12. RECORDS AND AUDIT.

A. <u>Records</u>. Contractor shall prepare and maintain all records required by the various provisions of this Agreement, federal, state, and municipal law, ordinances, regulations, and directions. Contractor shall maintain these records for a minimum of four (4) years from the termination or completion of this Agreement. Contractor may fulfill its obligation to maintain records as required by this paragraph by substitute photographs, microphotographs, or other authentic reproduction of such records.

B. <u>Inspections and Audits</u>. Any authorized representative of OVGA shall have access to any books, documents, papers, records, including, but not limited to, financial records of Contractor, which OVGA determines to be pertinent to this Agreement, for the purposes of making audit, evaluation, examination, excerpts, and transcripts during the period such records are to be maintained by Contractor.

Further, OVGA has the right, at all reasonable times, to audit, inspect, or otherwise evaluate the work performed or being performed under this Agreement.

#### 13. NONDISCRIMINATION.

During the performance of this Agreement, Contractor, its agents, officers, and employees shall not unlawfully discriminate in violation of any federal, state, or local law, against any employee, or applicant for employment, or person receiving services under this Agreement, because of race, religion, color, national origin, ancestry, physical handicap, medical condition, marital status, age, or sex. Contractor and its agents, officers, and employees shall comply with the provisions of the Fair Employment and Housing Act (Government Code section 12900, et seq.), and the applicable regulations promulgated thereunder in the California Code of Regulations. Contractor shall also abide by the Federal Civil Rights Act of 1964 (P.L. 88-352) and all amendments thereto, and all administrative rules and regulations issued pursuant to said act.

#### 14. CANCELLATION.

This Agreement may be canceled by OVGA without cause, and at will, for any reason by giving to Contractor thirty (30) days written notice of such intent to cancel. In the event of any such cancellation, OVGA will pay to Contractor all amounts owing to Contractor for work satisfactorily performed up to the date

of cancellation. Contractor may cancel this Agreement without cause, and at will, for any reason whatsoever by giving thirty (30) days written notice of such intent to cancel to OVGA.

#### 15. ASSIGNMENT.

This is an agreement for the services of Contractor. OVGA has relied upon the skills, knowledge, experience, and training of Contractor as an inducement to enter into this Agreement. Contractor shall not assign or subcontract this Agreement, or any part of it, without the express written consent of the OVGA. Further, Contractor shall not assign any monies due or to become due under this Agreement without the prior written consent of OVGA.

#### 16. DEFAULT.

If the Contractor abandons the work or fails to proceed with the work and services requested by OVGA in a timely manner or fails in any way as required to conduct the work and services as required by OVGA, OVGA may declare the Contractor in default and terminate this Agreement upon five (5) days written notice to Contractor. Upon such termination by default, OVGA will pay to Contractor all amounts owing to Contractor for services and work satisfactorily performed to the date of termination.

#### 17. WAIVER OF DEFAULT.

Waiver of any default by either party to this Agreement shall not be deemed to be waiver of any subsequent default. Waiver or breach of any provision of this Agreement shall not be deemed to be a waiver of any other or subsequent breach and shall not be construed to be a modification of the terms of this Agreement unless this Agreement is modified as provided in paragraph twenty-three (23) below.

#### 18. CONFIDENTIALITY.

Contractor further agrees to comply with the various provisions of the federal, state, and county laws, regulations, and ordinances providing that information and records kept, maintained, or accessible by Contractor in the course of providing services and work under this Agreement, shall be privileged, restricted, or confidential. Contractor agrees to keep confidential all such information and records. Disclosure of such confidential, privileged, or protected information shall be made by Contractor only with the express written consent of the OVGA. If a disclosure is required by law, Contractor shall first give OVGA reasonable notice of the intended disclosure sufficient to allow the OVGA to take any action that may be available to prevent the disclosure. Any disclosure of confidential information that Contractor is not required by law to disclose, that Owens Valley Groundwater Authority

(Independent Contractor)

Contractor discloses without the OVGA's written consent, is solely and exclusively the legal responsibility of Contractor in all respects.

Notwithstanding anything in the Agreement to the contrary, names of persons receiving public social services are confidential and are to be protected from unauthorized disclosure in accordance with Title 45, Code of Federal Regulations Section 205.50, the Health Insurance Portability and Accountability Act of 1996, and Sections 10850 and 14100.2 of the Welfare and Institutions Code, and regulations adopted pursuant thereto. For the purpose of this Agreement, all information, records, and data elements pertaining to beneficiaries shall be protected by the provider from unauthorized disclosure.

#### 19. CONFLICTS.

Contractor agrees that it has no interest, and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of the work and services under this Agreement.

#### 20. POST AGREEMENT COVENANT.

Contractor agrees not to use any confidential, protected, or privileged information which is gained from the OVGA in the course of providing services and work under this Agreement, for any personal benefit, gain, or enhancement. Further, Contractor agrees for a period of two years after the termination of this Agreement, not to seek or accept any employment with any entity, association, corporation, or person who, during the term of this Agreement, has had an adverse or conflicting interest with the OVGA, or who has been an adverse party in litigation with the OVGA, and concerning such, Contractor by virtue of this Agreement has gained access to the OVGA's confidential, privileged, protected, or proprietary information.

#### 21. SEVERABILITY.

If any portion of this Agreement or application thereof to any person or circumstance shall be declared invalid by a court of competent jurisdiction, or if it is found in contravention of any federal, state, or county statute, ordinance, or regulation, the remaining provisions of this Agreement, or the application thereof, shall not be invalidated thereby, and shall remain in full force and effect to the extent that the provisions of this Agreement are severable.

#### 22. FUNDING LIMITATION.

The ability of OVGA to enter this Agreement is based upon available funding from various sources. In the event that such funding fails, is reduced, or is modified, from one or more sources, OVGA has the option to cancel, reduce, or modify this Agreement, or any of its terms within ten (10) days of its notifying Contractor of the cancellation, reduction, or modification of available funding. Any reduction or modification of this Agreement made pursuant to this provision must comply with the requirements of paragraph twenty-three (23) (Amendment).

#### 23. AMENDMENT.

This Agreement may be modified, amended, changed, added to, or subtracted from, by the mutual consent of the parties hereto, if such amendment or change is in written form and executed with the same formalities as this Agreement, and attached to the original Agreement to maintain continuity.

#### 24. NOTICE.

Any notice, communication, amendments, additions, or deletions to this Agreement, including change of address of either party during the terms of this Agreement, which Contractor or OVGA shall be required, or may desire, to make, shall be in writing and may be personally served, or sent by prepaid first Owens Valley Groundwater Authority

### (Independent Contractor)

class mail to, the respective parties as follows:

OVGA:

INYO COUNTY WATER DEPARTM	ENT_
ATTN: OVGA Executive Manager	Name
P.O. Box 337	Street
Independence, CA 93526	City and State

#### **Contractor:**

COUNTY OF INYO	Name
P. O. BOX 337	Street
INDEPENDENCE, CA 93526	City and State

#### 25. ENTIRE AGREEMENT.

This Agreement contains the entire agreement of the parties, and no representations, inducements, promises, or agreements otherwise between the parties not embodied herein or incorporated herein by reference, shall be of any force or effect. Further, no term or provision hereof may be changed, waived, discharged, or terminated, unless the same be in writing executed by the parties hereto.

#### 26. COUNTERPARTS.

This Agreement may be executed in two (2) or more counterparts (including by electronic transmission), each of which shall constitute an original, and all of which taken together shall constitute one and the same instrument.

IN WITNESS THEREOF, THE PARTIES HERETO HAVE SET THEIR HANDS AND SEALS THIS \_\_\_\_\_\_ DAY OF \_\_\_\_\_\_.

OVGA	CONTRACTOR
Ву:	Ву:
Type or Print Name	Type or Print Name
Dated:	Dated:
APPROVED AS TO FORM AND LEGALITY:	
OVGA Counsel	
APPROVED AS TO ACCOUNTING FORM:	

OVGA Auditor

#### ATTACHMENT A

#### AGREEMENT BETWEEN THE OWENS VALLEY GROUNDWATER AUTHORITY AND THE COUNTY OF INYO FOR THE PROVISION OF EXECUTIVE MANAGER SERVICES

#### SCOPE OF WORK:

Executive Manager Powers and Duties. Subject to any rules and regulations provided by the Board, the powers and duties of the Executive Manager & staff are:

- On or before April 1 of each year, to cause to be prepared and submitted to the Board of Directors a proposed budget for the upcoming fiscal year.
- To prepare and present the GSA's annual report.
- To attend all meetings of the Board of Directors and act as secretary to the Board. To cause to be kept minutes of all meetings of the Board of Directors and to cause a copy of the minutes to be forwarded to each member of the Board of Directors, prior to the next regular meeting of the Board of Directors
- To monitor and regulate provided well information.
- To purchase or lease items, fixed assets, or services within the levels authorized by the Bylaws and Executive Manager purchasing authority.
- To perform such other duties as the Board of Directors may require in carrying out the policies and directives of the Board of Directors.

#### ATTACHMENT B

#### AGREEMENT BETWEEN THE OWENS VALLEY GROUNDWATER AUTHORITY AND THE COUTY OF INYO FOR THE PROVISION OF EXECUTIVE MANAGER SERVICES

#### SCHEDULE OF FEES:

#### **EXECUTIVE MANAGER & STAFF COUNTY RATE SHEET**

Rates for specific staff assigned work will vary by position, pay scale step, and benefit package. The OVGA shall be billed the hourly rate for the specific staff engaged, which shall fall within the rate range listed below. The rates include base salary and benefits.

Position	Rate per Hour
Executive Manager, Inyo County Water Director	\$90.96
Senior Scientist	\$76.51
Administrative Analyst	\$75.66

#### ATTACHMENT C

#### AGREEMENT BETWEEN THE OWENS VALLEY GROUNDWATER AUTHORITY AND THE COUNTY OF INYO FOR THE PROVISION OF EXECUTIVE MANAGER SERVICES

#### SEE ATTACHED INSURANCE PROVISIONS

Owens Valley Groundwater Authority (Independent Contractor) Page 11

Modified Contract 118 10/22/2018



### OWENS VALLEY GROUNDWATER AUTHORITY

Members: Big Pine CSD — City of Bishop — County of Inyo— Indian Creek-Westridge CSD Interested Parties: Lone Pine Paiute Shoshone Tribe – Owens Valley Committee

P.O. Box 337 135 Jackson Street Independence, CA 93526 Phone: (760) 878-0001 Fax: (760) 878-2552 www.inyowater.org

Staff Report

Date: March 14, 2024

Subject: Agenda item # 10: Ordinance 2022-01 Well Registration Program update

#### Background

The Owens Valley Groundwater Authority (OVGA)-adopted Groundwater Sustainability Plan (GSP) includes Program and Management Action #1 to compile a more accurate understanding of the amounts and locations of groundwater extraction within the Owens Valley Groundwater Basin. Subsequently, the OVGA adopted Ordinance 2022-01:

An Ordinance of the OVGA establishing the regulations and procedures for the registration of owners and users of groundwater extraction facilities within the Owens Valley Groundwater Basin.

The purpose of this registration and reporting program is to ensure that data describing the groundwater uses and conditions in the Owens Valley Basin are as complete and accurate as possible. Under Ordinance 2022-01, owners and users of wells are required to register their groundwater extraction facilities in Inyo County that are located within the boundary of the OVGA (lands in Mono County are not included) and thereafter annually report extractions. The initial registration deadline was set for April 1, 2023, and later extended to April 1, 2024. A groundwater extraction facility means any device or method used for the extraction of groundwater from the Basin such as a well, including wells with pumps and those flowing under artesian pressure.

The Ordinance *does not* regulate or restrict pumping or uses. Registration and reporting is *voluntary* for extractors that meet the definition of a de minimis extractor which means a person who extracts, for domestic purposes only, two acre-feet or less per year (CWC §10721(e)). Most single home residences with private wells are considered de minimis.

#### Discussion

Staff prepared a well registration and reporting form, OVGA boundary map, and cover letter describing the program, reporting process, and contact information. These were

posted by U.S. mail and electronically transmitted via email to well owners and users on September 1, 2023. A reminder email was sent on February 2, 2024. A webpage was added to OVGA website to house these program materials along with links to Ordinance 2022-01, an example of a filled-out form, and a frequently asked questions (FAQ) document.

As of the writing of this staff report, forms from seven (7) of the 51 known entities (14%) that were included in the OVGA contact list have been received and reviewed by staff for completeness and accuracy. This corresponds to 17 wells (most entities that have reported so far have more than one well) within OVGA's current boundary. The majority of these wells are not equipped with a dedicated functioning water meter or production records were not retained.

#### Staff Recommendation and Request for Direction

The Board will receive an update on the status of the well registration and reporting program. Staff requests direction on the issue of well owners and users that do not comply with Ordinance 2022-01 by the April 1, 2024, deadline. Staff also recommends a Board discussion on the topic of water meter equipping of wells within the OVGA boundary.



### **OWENS VALLEY GROUNDWATER AUTHORITY**

Members: Big Pine CSD — City of Bishop — County of Inyo — Indian Creek-Westridge CSD Interested Parties: Lone Pine Paiute Shoshone Tribe – Owens Valley Committee

P.O. Box 337 135 Jackson Street Independence, CA 93526 Phone: (760) 878-0001 Fax: (760) 878-2552 www.OVGA.us

### Well Registration and Reporting Program

The Owens Valley Groundwater Authority (OVGA) was formed for the express purpose of carrying out the requirements of the California Sustainable Groundwater Management Act (SGMA), including, but not limited to, the development, adoption, and implementation of a Groundwater Sustainability Plan (GSP). The GSP that was adopted on December 9, 2021 (https://ovga.us/gsa-plan/), included a program or management action to compile a more accurate understanding of the amounts and location of groundwater extraction within the Owens Valley Groundwater Basin (Basin). Subsequently, the OVGA adopted Ordinance 2022-01: *An Ordinance of the OVGA establishing the regulations and procedures for the registration of owners and users of groundwater extraction facilities within the Owens Valley Groundwater Basin* (OVGA Ordinance 2022-01.pdf). The purpose of this registration and reporting program is to ensure that data describing the groundwater uses and conditions in the Basin are as complete and accurate as possible.

This Ordinance *does not* regulate or restrict pumping or uses. Completion of the form is **voluntary** for extractors that meet the definition of a de minimis extractor which means a person who extracts, for domestic purposes only, two acre-feet or less per year (an acre-foot is approximately 326,000 gallons) (CWC §10721(e)). Most single home residences with private wells are considered de minimis. Extractors other than de minimis extractors must comply with Ordinance 2022-01.

The OVGA requires that no later than April 1, 2024, all owners and users must register their groundwater extraction facilities in Inyo County that are located within the boundary of the OVGA and thereafter annually report extractions. A map is included for reference, and OVGA's online database and mapping tool (<u>https://owens.gladata.com/</u>) includes a "GSP Area" layer. A groundwater extraction facility means any device or method used for the extraction of groundwater from the Basin such as a well, including wells with pumps and those flowing under artesian pressure. Lands in Mono County are not included within the existing OVGA boundary.

The well registration form can be downloaded at (<u>https://ovga.us/well-registration/</u>) and filled out electronically. Printed copies of this form are available upon request. This form to register wells and report pumping amounts will be used in the implementation of the adopted GSP for the Basin. Please fill this form out carefully and to the best of your ability for each well you own or use (i.e., one form per well). Completed forms should be submitted electronically via email to tmoore@inyocounty.us (preferred), or mailed or delivered to the OVGA address above.

For questions or assistance in completing the form: Please consult <u>OVGA.us</u> for frequently asked questions and to view a sample completed well registration form. Further inquiries can be directed to: Tim Moore, OVGA Hydrogeologist, (760) 878-8834 or <u>tmoore@inyocounty.us</u>.



### **OVGA WELL REGISTRATION & REPORTING FORM**



Well Owner and User Information	OWENS VALLEY GROUNDWATER A
Owners Name:	
Mailing Address:	
Home/Cell/Business Phone No://	
Email Contact(s):	
Well user or Additional Contact(s)	
Check this box if the User information is the same as Well Owner above.	
User Name:	
Mailing Address:	
Home/Cell/Business Phone No://	
Email Contact(s):	
Well Identification (enter unknown if necessary)	
APN Parcel Number:	
County Permit Number:	
Well Name and/or Identification Number:	
Physical Address:	
Description of Well Location on the Property:	
GPS Coordinates: Latitude: Longitude:	
<u>Current Type of Water Use Information (Check all boxes that apply)</u>	
Domestic or Residential use (in the home)	
Domestic or Residential landscaping and/or garden	
Irrigated Agriculture: Acres in Production:	
Commercial/Industrial	
Municipal, Water Company, or Private Water System: Number of Connections:	
Other or Combination ( <i>Specify use</i> ):	
Annual Water Use Information (Please fill out carefully and completely)	
Domestic/Residential Users (de minimis)	
I am a de minimis extractor using less than 2 acre-feet per year for domestic purposes	only.
IF YOU ARE A DE MINIMIS EXTRACTOR AND CHECKED THIS BOX, YOU DO NOT NEED TO COMPLETE THE REST OF THIS FORM.	

Falsifying this form subjects the groundwater extractor to fines, fees, and other potential enforcement actions.

#### Well Information (enter unknown if applicable)

Year Well Installed:	Well Depth (ft):
Casing Diameter (in):	Well Screen Depth Interval (ft):
Static (not pumping) Water Level (ft):	Date of WL:
Ground Elevation (ft):	Vertical Datum: e.g., NAVD88 or EGM96 (Google Earth)
Does this well have an access port to measure grou	Indwater level:

Water Meter Data (complete the information below if the well has a water meter)

Water Meter Manufacturer:
Model No.:
Size (inches):
Recording Units:
Gallons 100s of Gallons Acre-Feet
Cubic Feet 100s of Cubic Feet Cubic Meters
Does this well have a dedicated electrical meter?
Has an energy efficiency test (e.g., SCE) been performed on your well pump?
https://www.sce.com/sites/default/files/inline-files/25777_Arg_Pump_v8_WCAG.pdf
My well is not equipped with a functioning water meter. If checked, please describe below if there are plans to install a water meter.

Groundwater Production Reporting (check box below corresponding to primary water use reporting type)

**Domestic/Residential Users (greater than 2 acre-feet per year):** I use more than more than 2 acre-feet per year of pumped groundwater for domestic purposes and/or for landscaping or animals.

_	-	

**Agricultural Users** 

**Commercial/Industrial Users** 

Please provide the annual production in acre-feet in the table on the last page of this form for each of the calendar years (January through December) for which data are available. If you wish to provide data for additional years prior to 2015, fill in the optional additional years table.

#### **Groundwater Production Reporting Table**

Year	Pumping amount in <u>Acre-Feet</u> or specify units (e.g., gallons) in this table
2015	
2016	
2017	
2018	
2019	
2020	
2021	
2022	

#### Additional Years Groundwater Production Reporting Table (Optional)

Year	Pumping amount in <u>Acre-Feet</u> or specify units (e.g., gallons) in this table		

**For questions or assistance in completing this form** please consult <u>OVGA.us</u> for frequently asked questions (FAQ) and to view a sample completed well registration form. If you have questions or further inquiries, please contact: Tim Moore, OVGA Hydrogeologist, (760) 878-8834 or <u>tmoore@inyocounty.us</u>.

Submit completed forms electronically via email to <u>tmoore@inyocounty.us</u> (preferred), or mailed or delivered to the OVGA at: P.O. Box 337 135 Jackson Street Independence, CA 93526



### OWENS VALLEY GROUNDWATER AUTHORITY

Members: Big Pine CSD — City of Bishop — County of Inyo— Indian Creek-Westridge CSD Interested Parties: Lone Pine Paiute Shoshone Tribe – Owens Valley Committee

P.O. Box 337 135 Jackson Street Independence, CA 93526 Phone: (760) 878-0001 Fax: (760) 878-2552 www.inyowater.org

Staff Report

Date: March 14, 2024

Subject: Agenda item # 11: Water Year 2022 OVGA annual report

#### Background

Article 1, section 5.9 of the Owens Valley Groundwater Authority's (OVGA) Joint Powers Agreement (JPA) requires an annual report be prepared.

By April 1 of each year, the Authority shall prepare an annual report of its operation, in a form determined by the Board of Directors.

The Sustainable Groundwater Management Act (SGMA) (CWC §10728) requires certain groundwater data (e.g., water levels, pumping amount, groundwater change in storage, and groundwater and surface water use) be reported annually following submission of the Authority's Groundwater Sustainability Plan (GSP). Because the Basin is ranked low priority, **compliance with these reporting requirements is voluntary.** 

#### Discussion

The OVGA submitted its Groundwater Sustainability Plan (GSP) to the California department of Water Resources (DWR) in January 2022. The annual report for (WY) 2022 (October 1, 2021, through September 30, 2022) was due to DWR on April 1, 2023. Due to Inyo County Water Department (ICWD) staff changes including a new Director and a new Hydrologist, this draft annual report is approximately a year overdue. The annual report for WY 2023 is due April 1, 2024, and will also be late, but the WY 2024 annual report is planned to be delivered on time.

Daniel B. Stephens & Associates (DBS&A) was contracted to work with ICWD to prepare this initial draft annual report for WY 2022 for the Owens Valley Basin. It includes analysis of data with respect to the GSP Sustainability Management Criteria (SMC), by management area, that have been collected since the GSP was finalized. Water-level and streamflow data for the GSP Representative Monitoring Points (RMPs) have also

been uploaded to the SGMA Portal through September 2022 to align with the WY 2022 reporting period of this annual report.

#### Staff Recommendation and Request for Direction

The Board will receive an overview presentation of the annual report. Staff will receive comments from the Board and public at the meeting and recommends opening a 30-day public comment period in which written comments will be received following the posting of the draft WY 2022 annual report. Staff requests direction on the process for responding to comments and approving the annual report as well as the preferred form of publication of the draft and final version of the annual report.

## Owens Valley and Fish Slough Subbasins GSP Annual Report Water Year 2022

Submitted to



California Department of Water Resources

Submitted by



OWENS VALLEY GROUNDWATER AUTHORITY

Prepared by



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### Certification

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# **Acronyms and Abbreviations**

<u>Acronym/Abbreviation</u>	Definition
AF	acre-feet
AFY	acre-feet per year
amsl	above mean sea level
Basins	Owens Valley and Fish Slough Subbasins
BLM	Bureau of Land Management
CASGEM	California Statewide Groundwater Elevation Monitoring
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CIMIS	California Irrigation Management Information System
cfs	cubic feet per second
DMS	Database Management System
DWR	[CA] Department of Water Resources
eWRIMS	Electronic Water Rights Information Management System
ET	Evapotranspiration
ft	feet
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
LADWP	Los Angeles Department of Water and Power
LTWA	Inyo - Los Angeles Long Term Water Agreement
МО	Measurable Objective
MT	Minimum Threshold
OLGDP	Owens Lake Groundwater Development Project
OVGA	Owens Valley Groundwater Authority
RMP	Representative Monitoring Point
SGMA	Sustainable Groundwater Management Act
SMC	Sustainable Management Criteria
SWRCB	State Water Resources Control Board
TVGMD	Tri-Valley Groundwater Management District
WLE	water level elevation
WY	water year

# **Executive Summary**

The Owens Valley Groundwater Authority has prepared this annual report for water year 2022 (October 1 through September 30) for the Owens Valley and Fish Slough groundwater subbasins. It includes analysis of data, by management area, that have been collected since the GSP was submitted to DWR in January 2022.

Total water use in the Basins during WY 2022 was estimated to be 129,200 acre-feet (AF). Reported groundwater extractions for the Basins totaled 98,326 AF. Total surface water use in the Basins was estimated to be 30,874 AF. Total change in groundwater in storage for both subbasins over WY 2022 was estimated to be -4,575 AF. The estimated change in storage over WY 2022 was -17 AF for the Fish Slough subbasin and -7,162 AF for Tri-Valley. LADWP reported a change in groundwater in storage of +2,604 AF for their lands within Owens Valley.

The OVGA is working towards its sustainability goals through GSP management actions outlined in the GSP. A well registration and groundwater extraction program has been developed, and OVGA staff is now working with Inyo County Department of Environmental Health in reviewing well permits. The OVGA continues to gather data from its monitoring network that are imported periodically into its public-facing data management system. These easily accessible data and this annual report serve to keep the interested parties informed through GSP implementation.

# 1. Introduction

The Owens Valley and Fish Slough groundwater subbasins (the Basins) are designated low priority status by the California Department of Water Resources (DWR) and therefore are not required to be managed by a Groundwater Sustainability Agency (GSA). Groundwater management in the context of the Sustainable Groundwater Management Act (SGMA) is performed voluntarily by the Owens Valley Groundwater Authority (OVGA) for portions of the Basins within Inyo County, and by a combination of the Tri-Valley Groundwater Management District (TVGMD) and Mono County for portions of the Basins within Mono County. The Owens Valley Groundwater Authority (OVGA) submitted a Groundwater Sustainability Plan (GSP) for the Basins on January 26, 2022. After the GSP was submitted, the TVGMD and Mono county withdrew from the OVGA and petitioned DWR to become the GSAs for the portions of the Basins within Mono County. While the OVGA is not required to submit GSP annual reports to DWR since it is a low-priority basin, this GSP annual

report was voluntarily prepared to document groundwater conditions in the Basins for water year (WY) 2022.

This annual report provides a summary of hydrologic conditions and water use in the Basins (Figure 1) using observed data from monitoring networks and/or estimated using best available methods. It includes a summary of water use and changes in groundwater storage during the period from October 1, 2021, to September 30, 2022 (i.e., WY 2022), and provides context for conditions relative to the sustainable management criteria (SMC) developed for the Basins. Conditions are reported for each of the three management areas defined in the GSP: Tri-Valley & Fish Slough, Owens Valley, and Owens Lake (Figure 1). Analysis of Mono County portions of the basin (Tri-Valley & Fish Slough management area) and lands owned by the Los Angeles Department of Water and Power (LADWP) managed under the Long Term Water Agreement (LTWA) are included for completeness, but the OVGA has no management authority over these areas. This report has been prepared in accordance with the requirements for GSP annual reports as identified in the Sustainable Groundwater Management Act (SGMA, 23 CCR 356.2).

Owens Valley is the ninth largest groundwater subbasin in California in terms of total area and spans approximately 125 miles from north to south, the longest distance of any California subbasin. Ground surface elevations in the Basins range from a low of 3,529 ft above mean sea level (amsl) at Owens Lake to a high of 11,219 ft amsl near Mt. Perkins, a span of 7,690 ft. This results in practical challenges displaying information on figures such as water level contours or labels. Symbology and font sizes would need to be impractically small or figures could only present data for a portion of a given management area. To reduce the number of figures and potential confusion from a lack of geographic context, the most detailed information that could be displayed without making a figure illegible is presented.

Approximately 35% of the land area and the majority of water rights in the Basins are owned by LADWP. Because of the importance of surface water and groundwater supplied from Owens Valley to Los Angeles, LADWP has developed extensive facilities and monitoring for land management, water storage and export, groundwater production, groundwater recharge, surface water and groundwater monitoring, and dust control. Land and water management in the Tri-Valley portion of the Owens Valley Subbasin is primarily conducted by private landowners and is less well studied and monitored.

The main agencies or programs conducting groundwater monitoring and management in the Basins include: the City of Los Angeles (subject to the LTWA), Inyo County Water Department,

TVGMD, the California Statewide Groundwater Elevation Monitoring Program (CASEGM), the Groundwater Ambient Monitoring and Assessment Program (GAMA), local water providers (privately-owned public water systems, mutual water companies, community service districts or the City of Bishop), and the Owens Lake Groundwater Development Program (OLGDP). These agencies or programs monitor groundwater levels, water quality and/or extraction in areas throughout the Basins. In addition, LADWP is required to continue water deliveries for irrigation, mitigation, and for dust control, and conducts recharge operations in the Basin. Monitoring associated with these activities is routinely reported by LADWP.

For additional clarification or more detailed information on the basin plan area, monitoring network, or conditions, please refer to the <u>Owens Valley Groundwater Basin GSP</u>, the <u>OVGA</u> <u>Database Management System</u>, or the numerous documents and reports prepared by or in cooperation with the <u>Inyo County Water Department</u>. As acknowledged by the Department of Water Resources, it is important to note that there are still many data gaps and missing information as the OVGA continues to gather information for better analysis and informed decision making.

# 2. Groundwater Elevations

Groundwater elevations and changes from the beginning to the end of the water year for each management area (Figure 1) are provided below. Contour maps of each principal aquifer within each management area are also provided. These maps depict the seasonal high (spring) and low (fall) water level elevations for each principal aquifer within the respective management area. Note that due to infiltration of snowmelt runoff from the Eastern Sierras and LADWP operations (e.g., ditch conveyance, surface water spreading, lease agreements, etc.) during the summer months, the typical spring high and fall low trend is often reversed for the portion of Owens Valley Management Area between Big Pine and Independence. In this area, observed seasonal highs in average and wet years can occur during the summer and early fall. Spring and fall water level elevations are defined as observations within a 180-day period centered on April 1 or October 1. If a well has multiple observations within this period, then the value collected nearest to April 1st or October 1st is used. Hydrographs for representative monitoring points (RMPs) in the Basin are shown in **Appendix A**. The Rio Tinto well is not included despite it being listed as a potential RMP in the GSP as there are no historical data and a field inspection revealed water level measurements could not be collected without significant modifications to the well. It will be removed from the RMP list in the GSP 5-year update.

## 2.1 Fish Slough and Tri-Valley

Observed spring groundwater elevations for the Fish Slough and Tri-Valley management area ranged from 4,159.42 to 5,312.60 ft above mean sea level (amsl), with an average elevation of 4,442.73 ft amsl (Figure 2). Fall groundwater elevations (Figure 3) ranged from 4,158.81 to 5,304.39 ft amsl, with an average elevation of 4,419.96 ft amsl. Observed groundwater elevation changes from Fall 2021 to Fall 2022 ranged from -2.85 to +0.07 ft, with an average change of -0.51 ft.

Groundwater flow in both subbasins is generally from north to south. Recharge along the margins of the basin and drawdown near high-capacity irrigation wells likely influences flows locally during certain times of the year in Tri-Valley. Groundwater levels near Chalfant Valley indicate some flow from the Tri-Valley is directed westward towards the Fish Slough subbasin. This is consistent with results from a geochemical study performed by Zdon and others (2019) that showed Northeast Spring in Fish Slough was partially sourced by water from Tri-Valley. Additionally, declines in flow from Northeast Spring began at the same time as groundwater level declines in Tri-Valley. This indicates a strong hydrologic connection between Tri-Valley and Fish Slough, likely via enhanced permeability through the Bishop Tuff along the Fish Slough fault zone. Increasing the number of groundwater monitoring wells in the Hammil and Chalfant Valley areas would help provide further evidence of a hydrologic connection between Tri-Valley and Fish Slough. A joint project with California Department of Fish and Wildlife, Bureau of Land Management, United States Geological Survey and California Department of Water Resources is in progress to drill two multi-completion monitoring facilities in the southerly Hammil Valley and one in northerly Fish Slough subbasin (see Section 7.3).

### 2.2 Owens Valley

The Owens Valley management area contains two principal aquifers: a shallow unconfined aquifer approximately 100 ft in thickness and a deep semi-confined to confined aquifer that extends to approximately 1,000 ft below ground surface. The shallow and deep aquifers are separated by confining units that are laterally discontinuous and primarily composed of volcanic flows and clays deposited in ancient lakes. Most groundwater pumping in the Owens Valley subbasin occurs within the Owens Valley management area, and therefore monitoring wells in this area experience the greatest magnitude of observed water level fluctuations.

Observed spring groundwater elevations for the Owens Valley management area shallow aquifer (Figure 4) ranged from 3,689.31 to 4,373.41 ft amsl, with an average elevation of 3,916.39 ft amsl. Spring water levels in the deep aquifer ranged from 3,654.34 to 4,970.84 ft amsl, with an average

elevation of 3,939.62 ft amsl (Figure 5). In the fall, shallow aquifer groundwater elevations ranged from 3,691.62 to 4,305.15 ft amsl (Figure 6) with an average elevation of 3,907.95, and from 3,654.29 to 4,971.59 ft amsl with an average elevation of 3,907.95 ft amsl in the deep aquifer (Figure 7). Average change in groundwater elevation in the shallow and deep aquifers from Fall 2021 to Fall 2022 was -0.14 ft and -0.20 ft, respectively.

While groundwater flow patterns between the shallow and deep aquifers are generally similar, flow direction varies widely across the Owens Valley management area. Groundwater flow near Bishop is generally to the east and changes direction to the south towards the eastern margin of the basin near Laws and some groundwater flow enters from the north from Tri-Valley. South of Bishop, the majority of recharge enters the basin from the west along Sierra creeks and their associated, coarse grained alluvial fans. Groundwater elevations and flow reflect this, with west to east flow towards the center of the basin. Along the comparatively flat valley floor in the vicinity of the Owens River, groundwater flow is from the north to the south. Localized variations from these prevailing patterns exist, notably near LADWP wellfields and/or areas with significant surface water recharge (either natural or managed). Interpolating groundwater elevation contours in the Owens Valley management area is especially challenging due to the complex basin geometry and most monitoring wells being located on the valley floor. In addition, many of the monitoring wells are located in a linear orientation parallel to the valley axis.

### 2.3 Owens Lake

The Owens Lake management area contains five principal aquifers named from shallowest to deepest as Aquifers 1-5 (MWH, 2011). Aquifers 1-4 generally transition from coarse sands and gravels along the margins of the management area into fine silts and clays near Owens Lake, resulting in laterally discontinuous aquifers. Aquifer 5 is more laterally continuous and is composed of silty sand with interbedded sands and occasional clays, interpreted to have formed from a flood plain or braided stream system that existed prior to the formation of Owens Lake. The Owens Lake aquifer system extends more than 1,500 ft below ground surface (bgs). Due to the closed nature of the Owens Valley in terms of both surface water and groundwater (i.e., no natural outflows except for evapotranspiration) and limited pumping in the Owens Lake management area, water levels are generally stable and most monitoring wells show less than 10 ft of natural long-term variations in water levels. Groundwater conditions for Aquifers 2 and 4 are not included in this report because meaningful water level contour maps could not be created due to a lack of sufficient data. However, conditions for both the overlying and underlying aquifers are reported. Since groundwater extractions are relatively small in the Owens Lake management

area, conditions in Aquifers 1, 3, and 5 are believed to be representative of those in Aquifers 2 and 4.

Observed spring groundwater elevations in Aquifer 1 (Figure 8) ranged from 3,577.36 to 3,643.37 ft above mean sea level (amsl), with an average elevation of 3,613.84 ft amsl. Aquifer 3 spring groundwater elevations (Figure 9) ranged from 3,585.97 to 3,653.86 ft amsl, with an average elevation of 3,625.87 ft amsl. Groundwater elevations in the spring for Aquifer 5 (Figure 10) ranged from 3,612.56 to 3,654.09 ft amsl, with an average elevation of 3,627.24 ft amsl. Fall conditions in the Owens Lake management area are generally similar to those observed in the spring. Aquifer 1 water levels in the fall (Figure 11) ranged from 3,577.42 to 3,641.91 ft amsl, with an average elevation of 3,613.65 ft amsl. Aquifer 3 spring groundwater elevations (Figure 12) ranged from 3,585.53 to 3,652.66 ft amsl, with an average elevation of 3,625.27 ft amsl. Groundwater elevations in the spring for Aquifer 5 (Figure 13) ranged from 3,612.62 to 3,653.36 ft amsl, with an average elevation of 3,627.06 ft amsl. The average change in groundwater elevations over WY 2022 for Aquifers 1, 3, and 5 was -0.27 ft, +0.05 ft, and +0.15 ft, respectively.

### 2.4 Groundwater SMC Status

The reporting metric "SMC Status" was developed to better compare groundwater elevations observed at RMPs in the context of their unique SMC. This metric describes groundwater elevations relative to the "sustainability range" of the well and allows for normalized reporting of groundwater elevations at RMPs. The sustainability range is defined as the elevation range between the measurable objective (MO) and minimum threshold (MT) for each RMP. SMC Status was classified into the following categories:

- Near or Above MO: Water levels equal to or greater than 75% of the sustainability range
- Between MO and MT: Water levels within 25% to 75% of the sustainability range
- Near MT: Water levels less than 25% of the sustainability range but above the MT
- At or Below MT: Water levels at or below the MT

Figure 14 shows an example of this metric applied to the hydrograph of well T001. Table 1 provides a summary of all of the water level elevation RMPs and their status in Fall 2022. The SMC status of some RMPs could not be determined for a variety of reasons (monitoring point was destroyed, collecting entity was unresponsive to data requests, etc.), but of the 44 wells that had sufficient data 70% were above or near the MO, 27% had water level elevations in the middle of the sustainability range, and only a single well (T480) was at or below the MT. T480 is located at

the south end of the Bishop Cone well field operated by LADWP and had a water level elevation of 3392.79 ft in October 2022, which was 0.21 ft below the MT. It should be noted that T480 completely recovered above the MO by April 2023.

# 3. Groundwater Extractions

The subsections below discuss estimated or measured groundwater extractions for each management area. High-capacity extraction wells are not metered in Tri-Valley but are in the Owens Lake and Owens Valley management areas. While the majority of metered pumping comes from LADWP wells that are reported to the OVGA, additional pumping occurs from public or private entities (e.g., City of Bishop, mutual water companies, Crystal Geyser). The OVGA has initiated a well registration program that requires all groundwater pumpers in the portions of the Basins over which the OVGA has authority (excluding de minimus users, who are encouraged to voluntarily register their wells) to report their groundwater use (see Section 8). The deadline for submitting well registration and reporting forms is April 1, 2024, and therefore this report does not quantify all known groundwater extractions in the Owens Valley and Owens Lake management areas are likely very small relative to the reported volumes, so their inclusion in future GSP annual reports is expected to have minimal impacts. Reported groundwater extractions for the Basins in WY 2022 totaled 98,326 AF (Table 2).

### 3.1 Fish Slough and Tri-Valley

Groundwater extractions in the Fish Slough and Tri-Valley management area were estimated using <u>OpenET</u> since pumping is not metered. OpenET is an online platform for mapping evapotranspiration (ET) at the scale of individual fields. Several different ET estimation methodologies are available, and the Satellite Irrigation Management Support (SIMS) model was used. It must be noted that underestimation of ET for small agricultural operations in very arid areas is currently a known limitation of OpenET due to the limited number of cropland in-situ flux stations located in these types of environments. Further complicating matters, surface water is applied to some fields in Tri-Valley. This means that groundwater extraction estimates in this report are likely overestimated, but the degree to which is currently unknown. All groundwater pumping occurs in the Tri-Valley with the exception of one known active domestic well located near the boundary between the Owens Valley and Fish Slough subbasins.

Estimated groundwater extractions in Tri-Valley for WY 2022 are shown in Table 2. Total groundwater use was estimated to be 13,147 AF, with irrigated agriculture accounting for 100% of total quantified extractions. Not included in Table 1 are extractions from Chalfant Valley West Mutual Water Company (CVWMWC), which services a population of approximately 45 people (15 connections). Pumping data from CVWMWV were unavailable at the time this report was prepared. It was assumed the remainder of the Tri-Valley population are de minimis users served by domestic wells and therefore exempt from SGMA regulations.

The spatial distribution of estimated groundwater pumping aggregated within each public land survey (PLSS) section (1 mi<sup>2</sup>) in the Fish Slough and Tri-Valley management area is shown in Figure 15. Pumping was assumed to occur within the same section an irrigated agricultural field was located within. If a field overlay more than one section, then pumping was assigned to the section with the largest overlap. Most groundwater pumping in the Fish Slough and Tri-Valley management area appears to be located near the center of Tri-Valley in Hammil Valley.

### 3.2 Owens Valley

Extraction volumes for each water use sector were provided to the OVGA by LADWP since contributions to each sector from specific wells are not tracked. In other words, LADWP quantifies how much groundwater is applied to each water use sector as part of their operations, but generally does not track which wells the water is sourced from. In some instances, wells are dedicated to a specific purpose so their contributions to a specific water use sector can be tracked. For example, wells W357 and W384 are used as the municipal supply for Independence so groundwater extractions from them were assigned to the municipal water use sector. Although the volumes reported for each water use sector in Table 1 for the Owens Valley management area could not be independently verified, total groundwater extraction volume reported by LADWP<sup>1</sup> was consistent with the total calculated using pumping data provided to the OVGA. The volume of groundwater used for each sector was calculated by multiplying the total water use for the sector by the ratio of total groundwater extractions to total water use reported by LADWP. For WY 2022 about 77% of total water use in the basin reported by LADWP was sourced from groundwater.

Groundwater extractions in the Owens Valley management area, including those on LADWP lands that are exempt from being covered under a SGMA GSP (see Footnote 1), totaled 82,785 AF (Table

<sup>&</sup>lt;sup>1</sup> LADWP owned lands in Owens Valley are considered adjudicated under SGMA. Reports are required to be submitted annually for adjudicated areas: <u>Inyo County Basins Annual Report</u>.

2). Agricultural irrigation accounted for approximately 46% of total extractions. Managed wetlands and native vegetation were about 33% of total extractions, while domestic and municipal uses made up about 14%. The remaining 7% of groundwater extractions were for Tribal uses or unspecified LADWP operations. Due to the commingling of pumped groundwater with surface water in ditches and canals that reach the Los Angeles Aqueduct, the amount of groundwater that was exported was not quantified. The spatial distribution of Owens Valley management area groundwater extractions in shown in Figure 16. The majority of groundwater is pumped by LADWP on lands that are not subject to SGMA.

## 3.3 Owens Lake

A total of 2,394 AF of groundwater was extracted from the Owens Lake management area (Table 2). This is a relatively small volume of water compared to the other two management areas, primarily due to very poor water quality. Pumping occurs along the margins of the playa (Figure 17) where water quality is generally better. Note that groundwater extraction volumes from the Crystal Geyser Roxane bottling plant and agricultural uses south of Owens Lake were unavailable at the time this report was prepared and therefore total groundwater extractions in the Owens Lake management area are likely greater than reported here. The OVGA Well Registration and Reporting Program aims to fill these data gaps (see Section 7.1).

# 4. Surface Water Supply

The subsections below describe surface water used in the Basins. Total surface water use in the Basins was estimated to be 30,874 AF.

# 4.1 Fish Slough and Tri-Valley

Surface water use in the Fish Slough and Tri-Valley management area was estimated using data reported to the State Water Resources Control Board (SWRCB) Electronic Water Rights Information Management System (<u>eWRIMS</u>). Approximately 8,844 AF of surface water was used in the Fish Slough and Tri-Valley management area (Table 2), with approximately 7,282 AF (82%) used for agriculture and about 1,562 AF (18%) used for various other purposes (e.g., domestic, power generation, in-stream dedications).

## 4.2 Owens Valley and Owens Lake

Nearly all surface water rights in the Owens Valley and Owens Lake management areas are owned by the City of Los Angeles. Smaller holders of water rights exist but the sum of private water rights as a portion of the runoff into the management areas is negligible compared to LADWP water rights. LADWP does not currently differentiate between surface water used in different areas of the basin, but instead provides total water use for each sector. This precluded reporting surface water volumes used within each management area so instead they are presented jointly here.

The volume of surface water used for each sector was calculated by multiplying the total water use for the sector by the ratio of total surface water use to total water use reported by LADWP. For WY 2022 about 22,030 AF was sourced from surface water in the Owens Valley and Owens Lake management areas (Table 3).

#### 4.3 Surface Water SMC Status

SW3208 measures discharge from the Fish Slough Northeast Spring and is the only surface-water RMP in the Basins. The SMC Status (see Section 2.4 for explanation) for SW3208 in Fall 2022 was below the minimum threshold of 0.1 cfs of average daily flow (Table 4). No flow at Northeast Spring was recorded from July 2022 through October 2022. The only other recorded time Northeast Spring went dry was September 2021. Discharge from Northeast Spring has consistently declined since the early 1990s. It should be noted that SW3208 flow was above the MT by March 2023.

# 5. Total Water Use

Total water use in the Basin grouped by management area, water use sector, and measurement method is shown in Table 3. Total water volume used in the Basin during WY 2022 was estimated to be 129,200 AF.

# 6. Change of Groundwater in Storage

The subsections below discuss the estimated change of groundwater in storage for the Basins. Total groundwater in storage change for both subbasins over WY 2022 was estimated to be -4,575 AF (Figure 17). Cumulative change in groundwater in storage for both subbasins relative to Fall 2019 conditions is estimated to be -150,901 AF (see Section 6.2 below).

### 6.1 Fish Slough and Tri-Valley

Change in groundwater in storage for both the Fish Slough subbasin and the Tri-Valley portion of Owens Valley subbasin was estimated using the equation:

$$\Delta S = \Delta b_{avg} * A * \phi \qquad (6.1)$$

where  $\Delta S$  = change in storage (AF)

 $\Delta b_{avg}$  = mean change in observed water levels (feet)

A = subbasin area (acres)

 $\phi$  = mean effective aquifer porosity (-)

Mean change in water levels from Fall 2021 to Fall 2022 was -0.05 ft in the Fish Slough subbasin and -0.69 ft in Tri-Valley. The Fish Slough subbasin covers 2,944 acres and the Tri-Valley portion of the Owens Valley subbasin covers 72,100 acres. Assuming a 10% effective aquifer porosity for both areas, estimated change in storage over WY 2022 was -17 AF for the Fish Slough subbasin and -7,162 AF for Tri-Valley. Total combined change in groundwater in storage for the Fish Slough and Tri-Valley management area was -7,179 AF. Although this is the best method currently available for estimating change in groundwater in storage, these values have a very high degree of uncertainty associated with them due to limited data availability and spatial coverage. TVGMD plans to develop a numerical groundwater flow model for the Fish Slough and Tri-Valley portions of the Owens Valley groundwater basin in Mono County which will be available in the future for estimating change in storage (see Section 7.4).

### 6.2 Owens Valley and Owens Lake

As part of their SGMA reporting requirements for adjudicated basins (<u>CA Water Code Section</u> <u>10720.8</u>), LADWP reports water use and estimated change in storage values for each water year to DWR (<u>WY2022 Inyo County Basins Annual Report</u>). Figure 18 shows both estimated annual and cumulative change in storage relative to Fall 2019 for the Basins, as the first year LADWP began SGMA reporting was 2020. The reported value is calculated according to a relatively complex set of equations outlined in Section IV Subsection C of the <u>Green Book</u>, the technical appendix to the Inyo/Los Angeles Long Term Water Agreement.

LADWP reported a change in groundwater in storage of +2,604 AF for WY 2022. Since nearly all groundwater pumping and monitoring in the Inyo County portion of the Owens Valley subbasin occurs on LADWP lands, this is the best estimate available for the Owens Valley and Owens Lake management areas. It is assumed that most of this change in storage occurred in the Owens Valley management area since water levels in the Owens Lake management area are generally stable due to limited extractions.

# 7. Progress Towards GSP Implementation

The Owens Valley Groundwater Basin GSP identified four Projects or Management Actions that the OVGA Board of Directors would implement or consider implementing to facilitate the maintenance of sustainable conditions in the Basins (see Section 4 of the GSP). Below is a description of activities related to each project that occurred during WY 2022. The OVGA has focused its attention on Projects #1 and #2 since the GSP was submitted to DWR, while the TVGMD and Mono County have made progress on Projects #3 and #4. Updates on projects in the portions of the Basins in Mono County that the OVGA is involved with but not leading are also included.

## 7.1 Project and Management Action #1 - Well Registration and Reporting Ordinance

In August 2022, the OVGA passed <u>Ordinance No. 2022-01</u> which requires owners and users of groundwater extraction facilities located within the revised OVGA boundary<sup>2</sup> to register their wells with the OVGA and report groundwater extractions annually. This <u>Well Registration Program</u> is voluntary, but encouraged, for de minimus users which is defined as "a person who extracts, for domestic purposes, two acre-feet or less (of groundwater) per year." The initial registration deadline was set for April 1, 2023, and later extended to April 1, 2024, to provide stakeholders with additional time to submit.

## 7.2 Project and Management Action #2 - Well Permit Review Ordinance

The Inyo County Department of Environmental Health is the permitting entity that issues well permits within the Inyo County portion of the Basins. Staff to the OVGA is working with the County to review applications for well permits within the Basins.

<sup>&</sup>lt;sup>2</sup> After the GSP was submitted to DWR on January 26, 2022, the TVGMD and Mono County withdrew from the OVGA and petitioned DWR to become the GSAs for the portions of the Basins within Mono County. The <u>TVGMD</u> and <u>Mono County</u> were approved to be the GSAs for Mono County portions of the Owens Valley and Fish Slough groundwater subbasins on August 2, 2022.

# 7.3 Project and Management Action #3 - Increase Groundwater Level Monitoring Network

The TVGMD is currently exploring options for expanding the groundwater monitoring network in Tri-Valley utilizing existing wells, but no final decisions have been made. Inyo County Water Department installed pressure transducers and dataloggers in three monitoring wells located in the Fish Slough subbasin on May 11, 2023, in cooperation with the Bureau of Land Management (BLM) Bishop Field Office.

The California Department of Fish and Wildlife (CDFW), DWR, and United States Geologic Survey (USGS), in cooperation with the BLM Bishop Field Office propose to install two multi-completion groundwater monitoring facilities (i.e., well) in southern Hammil Valley in the Fish Slough and Tri-Valley management Area. A third multi-completion groundwater monitoring facility is planned to be installed on LADWP owned land in the Fish Slough subbasin. The monitoring well construction is scheduled to begin in 2024. The proposed project includes provision to equip the monitoring facilities with pressure transducers and dataloggers. The proposed project is a continued effort to assess groundwater conditions and movement in the Tri-Valley and Fish Slough management area.

## 7.4 Project and Management Action #4 - Tri-Valley Groundwater Model Development

In June 2022, a project proposal for developing a groundwater model of the Fish Slough and Tri-Valley portions of the Basins was approved by the Inyo-Mono Integrated Regional Water Management Program (IRWMP) to be put forward for funding by DWR. The requested project included an optional additive component for an isotope study. A description of the proposed scope of work and budget can be found in the July 13, 2022, TVGMD board meeting <u>minutes</u>. The project is currently in the planning phase, and model development activities are anticipated to begin when a consultant is awarded the contract in 2024.

# 7.5 Additional OVGA Activities

The OVGA continues to update and refine its <u>Database Management System</u>. Water-level and streamflow data for the GSP Representative Monitoring Points (RMPs) have also been uploaded to the <u>SGMA Portal</u> through September 2022 to align with the WY 2022 reporting period of this annual report.

## 7.6 **GSP** Amendments

No amendments to the GSP were necessary for the WY 2022 reporting period of this annual report.

# 8. References

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- Inyo County and City of Los Angeles. 1990. Green Book for the Long Term Groundwater Management Plan for the Owens Valley and Inyo County. <u>https://www.inyowater.org/wp-</u> <u>content/themes/rttheme16child/documents/Greenbook.pdf</u>
- Los Angeles Department of Water and Power and County of Inyo. (1991). Agreement Between the County of Inyo and the City of Los Angeles and its Department of Water and Power on a Long Term Groundwater Management Plan for Owens Valley and Inyo County, Stipulation and Order for Judgement, Inyo County Superior Court, Case no. 1. 95pp. <u>https://www.inyowater.org/documents/governing-documents/water-agreement/</u>
- MWH. 2011. Updated Conceptual Model Report (Final). Appendix H of Final Report on the Owens Lake Groundwater Evaluation Project (2012).
- Owens Valley Groundwater Authority. 2021. Owens Valley Groundwater Basin Final Groundwater Sustainability Plan. <u>https://ovga.us/wp-</u> <u>content/uploads/2021/12/OVGA\_groundwater\_sustainability\_plan\_Final-120921.pdf</u>
- Zdon, A., Rainville, K., Buckmaster, N., Parmenter, S., & Love, A. H. (2019). Identification of source water mixing in the fish slough spring complex, Mono County, California, USA. Hydrology, 6(1), 26. <u>https://www.mdpi.com/2306-5338/6/1/26</u>



#### **Table 1.** Groundwater Representative Monitoring Points SMC Status.

Representative Monitoring Point	Management Area	Water Level Elevation (ft amsl)	Date	MT (ft amsl)	MO (ft amsl)	SMC Status Fall 2022
BT-MW1	Fish Slough and Tri-Valley	5,303.55	2022-10-31	5,301	5,309	Middle of MO and MT
CH-MW2	Fish Slough and Tri-Valley	4,208.49	2022-10-31	4,204	4,211	Middle of MO and MT
DELTA W(3)_10 <sup>1</sup>	Owens Lake			3,562	3,563	Undetermined
DVF North MW	Owens Lake	3,645.13	2022-10-01	3,643	3,645	Near or Above MO
DVF South Lower	Owens Lake	3,642.22	2022-10-01	3,640	3,643	Middle of MO and MT
DVF South Middle	Owens Lake	3,642.23	2022-10-01	3,639	3,643	Near or Above MO
DVF South Upper	Owens Lake	3,640.21	2022-10-01	3,636	3,641	Near or Above MO
FS-2	Fish Slough and Tri-Valley	4,215.29	2022-09-21	4,214	4,217	Middle of MO and MT
FS-3D <sup>2</sup>	Fish Slough and Tri-Valley	4,180.22	2022-10-01	4,179		Undetermined
Fault Test T3	Owens Lake	3,624.02	2022-10-01	3,620	3,623	Near or Above MO
Fault Test T5	Owens Lake	3,625.00	2022-10-01	3,617	3,623	Near or Above MO
Hammil 2 <sup>2</sup>	Fish Slough and Tri-Valley	4,412.80	2022-10-23	4,401		Undetermined
110(7)_4 <sup>3</sup>	Owens Lake			3,568	3,570	Undetermined
ICWCSD 4 <sup>3</sup>	Owens Valley			4,249	4,254	Undetermined
KCSD <sup>3</sup>	Owens Lake			3,612	3,613	Undetermined
Keeler-Swansea Lower	Owens Lake	3,619.56	2022-10-01	3,618	3,618	Near or Above MO
O6(5)_4 <sup>1</sup>	Owens Lake			3,567	3,569	Undetermined
OL92-2	Owens Lake	3,607.25	2022-10-01	3,605	3,607	Near or Above MO
River Production Lower <sup>4</sup>	Owens Lake	3,631.34	2022-10-01			Undetermined
River Site Lower	Owens Lake	3,634.00	2022-10-01	3,594	3,633	Near or Above MO
SFIP MW	Owens Lake	3,618.66	2022-10-01	3,511	3,613	Near or Above MO
T001	Owens Valley	3,880.49	2022-10-31	3,867	3,880	Near or Above MO



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#### Owens Valley and Fish Slough Subbasins GSP Annual Report WY 2022

Representative Monitoring Point	Management Area	Water Level Elevation (ft amsl)	Date	MT (ft amsl)	MO (ft amsl)	SMC Status Fall 2022
T348	Owens Lake	3,632.50	2022-10-01	3,630	3,633	Near or Above MO
T362	Owens Valley	4,068.05	2022-09-21	4,047	4,072	Near or Above MO
T364	Owens Valley	3,899.29	2022-10-13	3,898	3,903	Middle of MO and MT
T384	Owens Valley	4,168.38	2022-10-20	4,165	4,168	Near or Above MO
T389	Owens Valley	4,229.61	2022-10-01	4,216	4,224	Near or Above MO
T391	Owens Valley	4,305.15	2022-10-06	4,296	4,303	Near or Above MO
T397	Fish Slough and Tri-Valley	4,200.37	2022-10-01	4,199	4,201	Middle of MO and MT
T480	Owens Valley	3,993.79	2022-10-20	3,994	3,995	At or Below MT
T513	Owens Valley	4,117.48	2022-10-20	4,113	4,117	Near or Above MO
T574	Owens Valley	4,069.17	2022-09-19	4,067	4,071	Middle of MO and MT
T588	Owens Lake	3,693.48	2022-10-11	3,685	3,693	Near or Above MO
T750 <sup>3</sup>	Owens Valley			4,357	4,360	Undetermined
T751 <sup>3</sup>	Owens Valley			4,373	4,379	Undetermined
T808	Owens Valley	3,839.90	2022-09-19	3,834	3,846	Middle of MO and MT
Т809	Owens Valley	3,827.25	2022-09-19	3,823	3,829	Middle of MO and MT
T858	Owens Lake	3,668.70	2022-10-11	3,666	3,670	Middle of MO and MT
Т860	Owens Lake	3,712.77	2022-10-11	3,708	3,711	Near or Above MO
T869	Owens Valley	3,986.00	2022-10-05	3,983	3,985	Near or Above MO
T871	Owens Valley	3,856.51	2022-09-20	3,850	3,852	Near or Above MO
T872	Owens Valley	3,950.10	2022-10-04	3,946	3,955	Middle of MO and MT
T873	Owens Valley	4,971.59	2022-10-04	4,954	4,963	Near or Above MO
Т899	Owens Lake	3,617.49	2022-09-14	3,617	3,618	Middle of MO and MT
T901	Owens Lake	3,610.41	2022-09-14	3,607	3,610	Near or Above MO
T902	Owens Lake	3,633.17	2022-10-01	3,631	3,632	Near or Above MO



#### Owens Valley and Fish Slough Subbasins GSP Annual Report WY 2022

Representative Monitoring Point	Management Area	Water Level Elevation (ft amsl)	Date	MT (ft amsl)	MO (ft amsl)	SMC Status Fall 2022
T904	Owens Lake	3,628.98	2022-10-01	3,626	3,629	Near or Above MO
Т908	Owens Lake	3,627.29	2022-10-01	3,625	3,627	Near or Above MO
T910	Owens Lake	3,609.33	2022-10-01	3,607	3,608	Near or Above MO
T916⁵	Owens Lake	3,653.36	2022-10-11	3,704	3,704	Undetermined
T917⁵	Owens Lake	3,652.66	2022-10-11	3,704	3,705	Undetermined
Т920	Owens Lake	3,601.52	2022-09-26	3,600	3,601	Near or Above MO
T922⁴	Owens Lake	3,579.37	2022-10-01			Undetermined
T924	Owens Lake	3,592.45	2022-09-26	3,590	3,592	Near or Above MO
T925⁴	Owens Lake	3,621.10	2022-10-01			Undetermined
T929 <sup>4</sup>	Owens Lake	3,623.47	2022-10-01			Undetermined
V016GB	Owens Valley	3,883.07	2022-10-21	3,880	3,882	Near or Above MO
V151	Owens Valley	3,832.58	2022-07-21	3,827	3,834	Near or Above MO
V299	Owens Valley	3,926.35	2022-10-21	3,909	3,914	Near or Above MO
WCCSD 2 <sup>3</sup>	Owens Valley			6,020	6,023	Undetermined
WCCSD 4 <sup>3</sup>	Owens Valley			6,263	6,274	Undetermined

Notes:

1. Reported destroyed by LADWP.

2. Newly established representative monitoring point or data not currently available. MO will be established in GSP 5-yr update.

3. Fall 2022 data unavailable.

4. Newly established representative monitoring point or data not currently available. SMCs will be established in GSP 5-yr update.

5. MT and MO values based on incorrect water level elevations that were recently corrected. MT and MO will be amended in GSP 5-yr update.



#### Owens Valley and Fish Slough Subbasins GSP Annual Report WY 2022

#### Table 2. Groundwater Extractions

Management Area	Sector	Method	GW Extraction Volume (AF)	Accuracy (%)	Range (AF)
Fish Slough and Tri Vallov	Agricultural	OpenET	13,147	± 20	10,518 - 15,776
	Municipal and Industrial	Totalizer	0	± 5	0 - 0
Fish Slough and Tri-Valley St	ubtotal		13,147		10,518 - 15,776
	Agricultural	Totalizer	37,713	± 5	35,827 - 39,599
	Domestic	Totalizer	732	± 5	695 - 769
	Managed Recharge	Totalizer	0	± 5	0 - 0
	Managed Wetlands	Totalizer	19,467	± 5	18,494 - 20,440
Owens valley	Municipal and Industrial	Totalizer	10,726	± 5	10,190 - 11,262
	Native Vegetation	Totalizer	8,030	± 5	7,628 - 8,432
	Other	Totalizer	2,260	± 5	2,147 - 2,373
	Tribes	Totalizer	3,857	± 5	3,664 - 4,050
Owens Valley Subtotal			82,785		78,645 - 86,925
Owene Leke	Agricultural	Totalizer	0	± 5	0 - 0
Owens Lake	Municipal and Industrial	Totalizer	2,394	± 5	2,274 - 2,514
Owens Lake Subtotal			2,394		2,274 - 2,514
Total			98,326		91,437 - 105,215



#### Table 3. Surface Water Use

Management Area	Surface Water Source	Sector	Method	Annual Volume Used (AF)	Accuracy (%)	Range (AF)
			Totalizer	1,969	± 5	1,871 - 2,067
		Agricultural	Unknown	2,163	± 33	1,449 - 2,877
Fish Slough and Tri-Valley	Local Supplies		Weir	3,150	± 5	2,992 - 3,308
		Other	Totalizer	667	± 5	634 - 700
		Other	Weir	895	± 5	850 - 940
Fish Slough and Tri-Valley Subtotal				8,844		7,796 - 9,892
	Local Supplies	Agricultural	Weirs and Flumes	11,530	± 5	10,954 - 12,106
		Domestic	Weirs and Flumes	224	±5	213 - 235
		Managed Recharge	Weirs and Flumes	0	± 5	0 - 0
Owens Valley and Owens Lake		Managed Wetlands	Weirs and Flumes	5,951	± 5	5,653 - 6,249
		Native Vegetation	Weirs and Flumes	2,455	± 5	2,332 - 2,578
		Other	Weirs and Flumes	691	± 5	656 - 726
		Tribes	Weirs and Flumes	1,179	±5	1,120 - 1,238
Owens Valley and Owens Lake Subto	tal			22,030		20,928 - 23,132
Total				30,874		28,724 - 33,024



#### Table 4. Groundwater Representative Monitoring Points SMC Status

Representative Monitoring Point	Management Area	Average Daily Flow Rate (cfs) <sup>1</sup>	Month	MT (cfs)	MO (cfs)	SMC Status Fall 2022
SW3208	Fish Slough and Tri-Valley	0	September 2022	0.1	0.5	At or Below MT

Notes:

1. LADWP reports total flow volume in AF for the month, which is multiplied by a factor of 0.016563 to convert to average daily flow rate in cfs.



#### Owens Valley and Fish Slough Subbasins GSP Annual Report WY 2022

#### Table 5. Total Water Use

Management Area Sector		Method	Total Annual Volume (AF)	Accuracy (%)	Range (AF)
	Agricultural	OpenET	13,147	± 20	10,518 - 15,776
	Agricultural	Totalizer	1,969	± 5	1,871 - 2,067
	Agricultural	Unknown	2,163	± 33	1,449 - 2,877
Fish Slough and Tri-Valley	Agricultural	Weir	3,150	± 5	2,992 - 3,308
	Municipal and Industrial	Totalizer	0	± 5	0 - 0
	Other	Totalizer	667	± 5	634 - 700
	Other	Weir	895	± 5	850 - 940
Fish Slough and Tri-Valley Subtota	al		21,991	-	18,314 - 25,668
	Agricultural	Totalizer	37,713	± 5	35,827 - 39,599
	Domestic	Totalizer	732	± 5	695 - 769
	Managed Recharge	Totalizer	0	± 5	0 - 0
	Managed Wetlands	Totalizer	19,467	± 5	18,494 - 20,440
Owens valley	Municipal and Industrial	Totalizer	10,726	± 5	10,190 - 11,262
	Native Vegetation	Totalizer	8,030	± 5	7,628 - 8,432
	Other	Totalizer	2,260	± 5	2,147 - 2,373
	Tribes	Totalizer	3,857	± 5	3,664 - 4,050
Owens Valley Subtotal			82,785	-	78,645 - 86,925
Owone Lako	Agricultural	Totalizer	0	± 5	0 - 0
Oweris Lake	Municipal and Industrial	Totalizer	2,394	± 5	2,274 - 2,514
Owens Lake Subtotal			2,394	-	2,274 - 2,514
	Agricultural	Weirs and Flumes	11,530	± 5	10,954 - 12,106
	Domestic	Weirs and Flumes	224	± 5	213 - 235
	Managed Recharge	Weirs and Flumes	0	± 5	0 - 0
Owens Valley and Owens Lake	Managed Wetlands	Weirs and Flumes	5,951	± 5	5,653 - 6,249
	Native Vegetation	Weirs and Flumes	2,455	± 5	2,332 - 2,578
	Other	Weirs and Flumes	691	± 5	656 - 726
	Tribes	Weirs and Flumes	1,179	± 5	1,120 - 1,238
Owens Valley and Owens Lake Su	ubtotal	22,030	-	20,928 - 23,132	
Total			129,200		120,161 - 138,239



Figure 1





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Figure 8



Figure 9

03/04/2024 OWENS VALLEY GROUNDWATER AUTHORITY



Figure 10





Figure 12



Figure 13






 Nepoted groundwater extractions likely overestimated due to unknown application volume of surface water on some fields.
Pumping from Chalfant Valley West MWC not included.

4. Estimated extraction volumes aggregated by public land survey system (PLSS) section.

5. Labels indicate estimated extraction volume in acre-ft (AF).

## OWENS VALLEY GSP ANNUAL REPORT WY 2022 Estimated Groundwater Extractions Fish Slough and Tri-Valley Management Area

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OWENS VALLEY GROUNDWATER AUTHORITY

0 - 500

500 - 1,000

1,000 - 1,500

SGMA Exempt

Groundwater Basin

4 mi

Lands

02/27/2024

Boundary





DB23.1300.00 C:\Users\500\Documents\Local Project Files\DB23.1300.00 OVGA WY2023 Annual Reports\Docs\WY2022\GIS\QGZs\Owens Valley Annual Report WY2022.ggz



02/27/2024 OWENS VALLEY GROUNDWATER AUTHORITY

Figure

18

## **Appendix A**

## Representative Monitoring Point Hydrographs









Notes: Newly established representative monitoring point or data not currently available. MO will be established in future GSP updates.











Notes: Newly established representative monitoring point or data not currently available. MT and MO will be established in future GSP updates.



**River Site Lower** 





















Notes: MT and MO values based on incorrect water level elevations that were recently corrected. MT and MO will be amended in the GSP 5-yr update



Notes: MT and MO values based on incorrect water level elevations that were recently corrected. MT and MO will be amended in the GSP 5-yr update



Notes: Newly established representative monitoring point or data not currently available. SMCs will be established in future GSP updates.



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Notes: Wheeler Crest CSD (within Mono County and outside the revised OVGA boundary) has not responded to data requests.



Notes: Wheeler Crest CSD (within Mono County and outside the revised OVGA boundary) has not responded to data requests.