Agenda

Regular Meeting
of the Board of Directors of
Yuima Municipal Water District

Monday, September 25, 2023 2:00 P.M.
34928 Valley Center Road, Pauma Valley, California

Roland Simpson, President
Don Broomell, Secretary / Treasurer
Bruce Knox, Director
Steve Wehr, Vice President
Laurie Kariya, Director

1. **Roll Call** - Determination of Quorum — Broomell

2. **Pledge of Allegiance**

3. **Approval of Agenda –** At its option, the Board may approve the agenda, delete an item, reorder items and add an item to the agenda per the provisions of Government Code §54954.2. — Simpson

4. **Public Comment** – This is an opportunity for members of the public to address the Board on matters of interest within the Board's jurisdiction that are not listed on the agenda. The Brown Act does not allow any discussion by the Board or staff on matters raised during public comment except; 1) to briefly respond to statements made or questions posed; 2) ask questions for clarification; 3) receive and file the matter; 4) if it is within staff's authority, refer it to them for a reply; or 5) direct that it be placed on a future board agenda for a report or action. Inquiries pertaining to an item on the agenda will be received during deliberation on that agenda item. No action can be taken unless specifically listed on the agenda (Government Code §54954.3) — Simpson

I. CONSENT CALENDAR

Consent Calendar items will be voted on together by a single motion unless separate action is requested by a Board Member, staff or audience member.

1. Approve minutes of the Regular Meeting of August 28, 2023.

2. Approve of Accounts Paid and Payables for & Reporting under Government Code §53065.5 for August 2023.

3. Acceptance of Monthly Financial Reports - August 2023, Treasurer's Report and Cash Statements.

II. ACTION DISCUSSION

1. Proposed Resolution Setting Forth Water Connection Fees (Capacity Charges) for 2024 and Fixing Time and Place of Hearing and Giving Notice of Hearing. — Simpson

Background: In compliance with Ordinance 136-21 which provides that water connection fees (Capacity Charges) be reviewed annually and adjusted to conform to changes in the construction costs as determined by the Engineering News Record (ENR) construction cost index. Capacity Charges were last reviewed and increased at the October 25, 2021 Regular Board Meeting; therefore the calculation for increase will be the change from August 2021 to August 2023. The ENR-CCI-LA index increased 13.2% from August 2021 to August 2023. The capacity charges, a component of the cost for a new water meter installation, are collected and the revenue is allocated toward construction of capital facilities, such as tanks, pump stations and pipelines needed to provide service to the new demand on the system. A public hearing is required under Government Code Section §66016 (a). The proposed resolution sets the time and date of hearing for October 23, 2023 at 2:10 p.m.

Recommendation : That, should the Board agree, they approve the resolution as presented

2. Review and Approve the Aquifer Study Conducted by Geoscience Support Services — Reeh

Background: As part of the SGWP grant projects and Management Action Projects within the Groundwater Sustainability Plan, an aquifer study was conducted by Geoscience Support Services. Because Yuima is the grant holder of this grant the Board must approve the Aquifer study for submission to DWR as a grant deliverable.

Recommendation: That, should the Board agree, that they accept the aquifer study for submission to DWR as part of the grant deliverables.

3. Review and Acceptance of the Summary and Well Driller's Report for the Groundwater Monitoring Well. — Reeh

Background: As part of the DACI grant projects and Management Action Projects within the Groundwater Sustainability Plan, a monitoring well was drilled within the basin boundary. The well is located on Rancho Estates Mutual Water Company land, with easements issued for access. The well drilling was completed in June and the Well Drilling Completion Report was drafted by Geoscience in August. The report is provided for your review and acceptance for submission as a DACI grant deliverable.

Recommendation: That, should the Board agree, that they accept the Monitoring Well Summary and Well Drillers Report for submission as part of the grant deliverables.

4. Discussion / Possible Action Relating to Legislative Request Letter to Update the County Water Authority Act Section 45-6. — Reeh

Background: During the AB399 legislation issue regarding Fallbrook and Rainbow detachment there was discussion regarding and amendment to the County Water Authority Act to address the inequity of the voting structure. The General Manager is requesting direction as to the Board's desire for the GM to work cohesively with other agencies to continue with efforts to address this issue.

Recommendation: Direct General Manager to carry out Board direction on this issue.

III. CLOSED SESSION

1. Potential exposure to litigation, 1 case, per GC 54956.9(d)(2). — Jungreis

IV. INFORMATION / REPORTS

1. Board Reports / Meetings

JPIA	Reeh
San Diego County Water Authority/MWD	Reeh
Other Meetings (SGMA/GSA)	Simpson

2. Administrative — Reeh

General Information

3. Capital Improvements — Reeh

4. Operations — Quinn

General Information
Rainfall
Production / Consumption Report
Well Levels
District Water Purchased

5. Counsel — Jungreis

6. Finance & Administrative Services — Brewer

General Information
Delinquent Accounts

V. OTHER BUSINESS

Next Regular Meeting, October 23, 2023, 2:00 p.m.

VI. ADJOURNMENT

NOTE: In compliance with the Americans with Disabilities Act, if special assistance is needed to participate in the Board meeting, please contact the General Manager at (760) 742-3704 at least 48 hours before the meeting to enable the District to make reasonable accommodations. The meeting begins at 2:00 p.m. The time listed for individual agenda items is an estimate only. Any writings or documents provided to a majority of the members of the Yuima Municipal Water District Board of Directors regarding any item on this agenda will be made available for public inspection during normal business hours in the office of the General Manager located at 34928 Valley Center Road, Pauma Valley.

CONSENT CALENDAR

MINUTES OF THE REGULAR MEETING
OF THE BOARD OF DIRECTORS OF
YUIMA MUNICIPAL WATER DISTRICT

Date: August 28, 2023
Time: 2:00 p.m.

Call to Order

The Regular Meeting of the Board of Directors of the Yuima Municipal Water District was held at the office of the district located at 34928 Valley Center Rd., Pauma Valley, California on Monday, the 28th day of August 2023. The meeting was called to order at 2:03 p.m. and the Pledge of Allegiance was performed.

Roll Call – Determination of Quorum

President Simpson declared that a quorum of the Board was present.

Directors In Attendance

Roland Simpson
Steve Wehr
Laurie Kariya
Don Broomell

Approval of the Agenda

No Changes to the agenda were proposed.

Public Comment

No speaker requests were received and no requests to speak at this time was received by members of the public present. Rick Carey, requested to speak at the time the first item of the agenda was discussed.

I. Consent Calendar

With motion being offered by Director Wehr and seconded by Director Broomell, the Regular Meeting Minutes of July 24, 2023; Accounts Paid and Payable for July 2023; and Monthly Financial Reports for July 2023 were approved by the following roll-call vote, to wit:

AYES: Wehr, Broomell, Kariya, Simpson
NOES: None
ABSTAIN: None
ABSENT: Knox

II. Closed Session

General Counsel Jeremy Jungreis took the Board into Closed Session at 2:08 p.m. relating to the following items:

1. Potential Exposure to Litigation, I case, pursuant to GC 54956.9 (d)(2).
2. Conference with Legal Counsel – Ongoing Litigation – 1 case. San Luis Rey Indian Water Authority, Pursuant to GC 54956.9.

The Board exited Closed Session at 2:17 p.m. with no report from closed session.

III. Action Discussion

1. Discussion / Possible Action: Direct Staff as to the issuance of District response to Assembly Bill AB399. Water Rate Payers Protection Act of 2023.

After discussion with public comment given by Rick Carey from Rainbow the Board directed General Manager Reeh to draft a letter of opposition with a request to amend the bill to revise the voting structure of the Water Authority. Once the letter is drafted, Manager Reeh will provide to the Board for revision and or approval.

2. Discussion / Possible Action: Current Moratorium on new meters.

The Developer for Phase 3 at Oak Tree Ranch has requested 86 new domestic meter connections. The District imposed a meter moratorium on all new meters due to the recent Operating Permit Engineering Report and the State Water Resources Control Board's Determination of our source and storage capacity. After brief discussion, the Board directed staff to approach the SWRCB to discuss possible options for allowing the domestic meters.

3. Authorize General Manager to Execute Land Use Agreement with the Department of Water Resources and the Pauma Valley Country Club for the Installation and Maintenance of a CIMIS station.

Upon motion offered by Director Wehr, seconded by Director Kariya, authorization for the General Manager to execute the Land Use agreement was approved and carried unanimously by the following roll-call vote, to wit:

AYES: Wehr, Broomell, Kariya, Simpson
NOES: None
ABSTAIN: None
ABSENT: Knox

4. ACWA Region 10 Election & Committee Appointments for the 2024-25 Term

Upon motion offered by Director Simpson, seconded by Director Kariya, the Board directed the GM to vote for the individuals she believes are most qualified.

AYES: Wehr, Broomell, Kariya, Simpson
NOES: None
ABSTAIN: None
ABSENT: Knox

IV. Information / Reports

Reports are provided for information purposes only. No Discussion was held.

1. Board Reports/Meeting

2. Administrative

3. Capital Improvement Program

The Capital Improvement Report was available in the Board packet.

4. Operations

5. Counsel

General Counsel exited the meeting after closed session.

6. Finance & Administrative Services.

Reports were available in the Board packet.

V. Other Business

September 25, 2023 at 2:00 p.m. Regular Meeting

VI. Adjournment

The meeting of the Board of Directors of the Yuima Municipal Water District was adjourned at 4:20 p.m. until the next regular meeting on September 25, 2023, at 2:00 p.m.

_____
Roland Simpson, President

_____
Don Broomell, Secretary/Treasurer

Yuima Municipal Water District

Bank Transaction Report

Transaction Detail

Issued Date Range: 08/01/2023 - 08/31/2023

Cleared Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
Bank Account: 57-955468-36 - *General Checking							
08/03/2023		71779	A-1 IRRIGATION, INC.	Accounts Payable	Outstanding	Check	-200.69
08/03/2023		71780	DENISE M. LANDSTEDT	Accounts Payable	Outstanding	Check	-758.50
08/03/2023		71781	EDCO Waste and Recycling Services, Inc.	Accounts Payable	Outstanding	Check	-293.79
08/03/2023		71782	FALLBROOK OIL COMPANY	Accounts Payable	Outstanding	Check	-900.57
08/03/2023		71783	HACH COMPANY	Accounts Payable	Outstanding	Check	-3,650.00
08/03/2023		71784	PRUDENTIAL OVERALL SUPPLY	Accounts Payable	Outstanding	Check	-157.53
08/03/2023		71785	R & G REDDING CONSTRUCTION	Accounts Payable	Outstanding	Check	-2,240.00
08/03/2023		71786	RUTAN & TUCKER, LLP	Accounts Payable	Outstanding	Check	-8,380.36
08/03/2023		71787	TRAN CONTROLS SCADA SOLUTIONS	Accounts Payable	Outstanding	Check	-43,776.00
08/03/2023		71788	USA BLUE BOOK	Accounts Payable	Outstanding	Check	-558.26
08/03/2023		71789	Visual Edge IT, Inc	Accounts Payable	Outstanding	Check	-182.96
08/03/2023		71790	WEST COAST TELCOM PRODUCTS	Accounts Payable	Outstanding	Check	-5,040.61
08/03/2023		71791	XEROX FINANCIAL SERVICES LLC	Accounts Payable	Outstanding	Check	-459.18
08/08/2023		71792	VALIC GA#24515	Accounts Payable	Outstanding	Check	-800.00
08/08/2023		DFT0001618	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-505.61
08/08/2023		DFT0001619	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-501.05
08/08/2023		DFT0001620	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-1,743.07
08/08/2023		DFT0001621	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-3,760.66
08/08/2023		DFT0001622	CALPERS 457 PLAN	Accounts Payable	Outstanding	Bank Draft	-37.50
08/08/2023		DFT0001623	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-7.44
08/08/2023		DFT0001624	EMPLOYMENT DEVELOPMENT DEPARTMENT	Accounts Payable	Outstanding	Bank Draft	-1,162.18
08/08/2023		DFT0001625	EMPLOYMENT DEVELOPMENT DEPARTMENT	Accounts Payable	Outstanding	Bank Draft	-263.04
08/08/2023		DFT0001626	EFTPS - Federal Payroll Tax	Accounts Payable	Outstanding	Bank Draft	-4,002.33
08/08/2023		EFT0000077	Payroll EFT	Payroll	Outstanding	EFT	-21,485.31
08/09/2023		71793	BABCOCK LABORATORIES, INC	Accounts Payable	Outstanding	Check	-115.25
08/09/2023		71794	COUNTY OF SAN DIEGO-RECORDER	Accounts Payable	Outstanding	Check	-20.00
08/09/2023		71795	DENISE M. LANDSTEDT	Accounts Payable	Outstanding	Check	-693.75
08/09/2023		71796	KWC ENGINEERS Reversal	Accounts Payable	Outstanding	Check Reversal	500.00
08/09/2023		71796	KWC ENGINEERS	Accounts Payable	Outstanding	Check	-500.00
08/09/2023		71797	ONTARIO REFRIGERATION SERVICE, INC.	Accounts Payable	Outstanding	Check	-1,255.00
08/09/2023		71798	SDCWA	Accounts Payable	Outstanding	Check	-38,818.44
08/09/2023		71799	SDG&E	Accounts Payable	Outstanding	Check	-281,096.09
08/09/2023		71800	UNDERGROUND SERV. ALERT	Accounts Payable	Outstanding	Check	-21.00
08/09/2023		71801	WATERLINE TECHNOLOGIES	Accounts Payable	Outstanding	Check	-4,454.99
08/09/2023		71802	KWC ENGINEERS	Accounts Payable	Outstanding	Check	-1,400.00
08/09/2023		DFT0001627	SAN DIEGO COUNTY WATER AUTHORITY	Accounts Payable	Outstanding	Bank Draft	-527,573.08

Bank Transaction Report **Issued Date Range: -**

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
08/17/2023		71803	A-1 IRRIGATION, INC.	Accounts Payable	Outstanding	Check	-117.44
08/17/2023		71804	ADVANCE AUTO PARTS	Accounts Payable	Outstanding	Check	-82.19
08/17/2023		71805	AFLAC	Accounts Payable	Outstanding	Check	-35.88
08/17/2023		71806	ALPHA ANALYTICAL LABORATORIES, INC.	Accounts Payable	Outstanding	Check	-95.00
08/17/2023		71807	AT & T MOBILITY	Accounts Payable	Outstanding	Check	-442.06
08/17/2023		71808	AT&T	Accounts Payable	Outstanding	Check	-153.71
08/17/2023		71809	BABCOCK LABORATORIES, INC	Accounts Payable	Outstanding	Check	-2,701.00
08/17/2023		71810	CONTROLLED ENVIRONMENTS LLC	Accounts Payable	Outstanding	Check	-953.00
08/17/2023		71811	COUNTY OF SAN DIEGO - ASSESSOR	Accounts Payable	Outstanding	Check	-125.00
08/17/2023		71812	COUNTY OF SAN DIEGO - AUDITOR	Accounts Payable	Outstanding	Check	-10,478.52
08/17/2023		71813	CSDA SAN DIEGO CHAPTER	Accounts Payable	Outstanding	Check	-150.00
08/17/2023		71814	FALLBROOK OIL COMPANY	Accounts Payable	Outstanding	Check	-1,185.16
08/17/2023		71815	Geoscience Support Services	Accounts Payable	Outstanding	Check	-5,596.50
08/17/2023		71816	GRAINGER	Accounts Payable	Outstanding	Check	-892.23
08/17/2023		71817	JJJ ENTERPRISES, INC.	Accounts Payable	Outstanding	Check	-430.00
08/17/2023		71818	ONTARIO REFRIGERATION SERVICE, INC.	Accounts Payable	Outstanding	Check	-888.34
08/17/2023		71819	PACIFIC PIPELINE SUPPLY	Accounts Payable	Outstanding	Check	-6,080.77
08/17/2023		71820	PRUDENTIAL OVERALL SUPPLY	Accounts Payable	Outstanding	Check	-48.89
08/17/2023		71821	ROSBELTH VALENZUELA	Accounts Payable	Outstanding	Check	-125.00
08/17/2023		71822	TEMECULA VALLEY PIPE	Accounts Payable	Outstanding	Check	-1,293.00
08/17/2023		71823	Upper San Luis Rey Groundwater Management Authority	Accounts Payable	Outstanding	Check	-7,919.76
08/17/2023		71824	USA BLUE BOOK	Accounts Payable	Outstanding	Check	-165.53
08/17/2023		71825	VALLEY CENTER WIRELESS	Accounts Payable	Outstanding	Check	-129.90
08/17/2023		71826	WATERLINE TECHNOLOGIES	Accounts Payable	Outstanding	Check	-4,547.63
08/17/2023		71827	ACWA JPIA	Accounts Payable	Outstanding	Check	-18,297.42
08/17/2023		DFT0001628	CalPERS Financial Reporting &	Accounts Payable	Outstanding	Bank Draft	-700.00
08/22/2023		71828	VALIC GA#24515	Accounts Payable	Outstanding	Check	-800.00
08/22/2023		DFT0001629	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-505.61
08/22/2023		DFT0001630	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-501.05
08/22/2023		DFT0001631	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-1,724.57
08/22/2023		DFT0001632	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-3,720.76
08/22/2023		DFT0001633	CALPERS -FISCAL SERVICES DIV.	Accounts Payable	Outstanding	Bank Draft	-7.44
08/22/2023		DFT0001634	EMPLOYMENT DEVELOPMENT DEPARTMENT	Accounts Payable	Outstanding	Bank Draft	-1,120.74
08/22/2023		DFT0001635	EMPLOYMENT DEVELOPMENT DEPARTMENT	Accounts Payable	Outstanding	Bank Draft	-258.05
08/22/2023		DFT0001636	EFTPS - Federal Payroll Tax	Accounts Payable	Outstanding	Bank Draft	-3,889.86
08/22/2023		EFT0000078	Payroll EFT	Payroll	Outstanding	EFT	-20,626.38
						Bank Account 57-955468-36 Total: (72)	**-1,053,102.63**
						Report Total: (72)	**-1,053,102.63**

Summary

Bank Account		Count	Amount
57-955468-36 *General Checking		72	-1,053,102.63
	Report Total:	**72**	**-1,053,102.63**

Cash Account		Count	Amount
99 99-1000-011 General Checking		72	-1,053,102.63
	Report Total:	**72**	**-1,053,102.63**

Transaction Type	Count	Amount
Bank Draft	19	-551,984.04
Check	50	-459,506.90
Check Reversal	1	500.00
EFT	2	-42,111.69
Report Total:	**72**	**-1,053,102.63**

Government Code 53065.5 Reporting - Fiscal Year 2023/2024

No.	Name	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	2023/2024
1040	A.Simon													$ -
0900	M. Quinn													$ -
1349	M. Munaco													$ -
1772	A. Reeh													$ -
1827	N. Ruiz													$ -
1858	L. Brewer													$ -
1946	B. Easley													$ -
1997	R. Valenzuela		125.00											$ 125.00
	Totals	$ -	$ 125.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 125.00

California Government Code Section 53065.5

Each special district, as defined by subdivision (a) of Section 53036, shall, at least annually, disclose any reimbursement paid by the district within the immediately preceding fiscal year of at least one hundred ($100) for each individual charge for services or products received. "Individual charge" includes, but is not limited to, one meal, lodging for one day, transportation, or a registration fee paid to any employee or member of the governing body of the district. The disclosure requirement shall be fulfilled by including the reimbursement information in a document published or printed at least annually by a date determined by that district and shall be made available for public inspection.

Government Code 53065.5 reporting

Breakdown available in the Finance Department

Pooled Cash Report

Yuima Municipal Water District

For the Period Ending 8/31/2023

ACCOUNT #	ACCOUNT NAME	BEGINNING BALANCE	CURRENT ACTIVITY	CURRENT BALANCE
CLAIM ON CASH				
01-1001-000	Claim on Cash - Yuima General District	2,891,752.99	250,500.94	3,142,253.93
02-1001-000	Claim on Cash - IDA	(102,858.11)	174,164.75	71,306.64
10-1001-000	Claim on Cash - Yuima General District Capital	1,327,574.36	(41,694.88)	1,285,879.48
20-1001-000	Claim on Cash - IDA Capital	373,504.94	321.49	373,826.43
TOTAL CLAIM ON CASH		4,489,974.18	383,292.30	4,873,266.48
CASH IN BANK				
Cash in Bank				
99-1000-000	Petty Cash	500.00	0.00	500.00
99-1000-011	General Checking	297,986.38	201,404.09	499,390.47
99-1100-015	General Savings	10,077.78	6.42	10,084.20
99-1100-017	Official Pay	25,663.46	(15,899.29)	9,764.17
99-1200-020	LAIF State Treasury	1,605,011.48	190,000.00	1,795,011.48
99-1300-030	UBS Financial Services - Clearing	0.00	2,100.07	2,100.07
99-1300-035	Higgins Capital Management - Clearing	181.23	3,471.36	3,652.59
99-1400-041	Valley Strong CD - CUSIP 920133AN5	243,770.10	(240.10)	243,530.00
99-1400-046	BMO Harris Bank - 05600XCG3	88,748.00	129.00	88,877.00
99-1400-051	BMW Bank - 05580AH64	188,106.00	492.00	188,598.00
99-1400-053	Sallie Mae - 795451AN3	223,447.50	(80.00)	223,367.50
99-1400-054	State Bank of India - 856285VD0	222,190.00	307.50	222,497.50
99-1400-057	BMO Harris Bank - 05600XGP9	236,216.75	12.25	236,229.00
99-1400-058	Morgan Stanley Bank - 61690UUH1	245,035.00	465.00	245,500.00
99-1400-062	Flagstar Bank - 33847E4D6	94,261.00	314.00	94,575.00
99-1450-056	FHLB BOND CUSIP 3130AVNE8	248,597.50	(1,492.50)	247,105.00
99-1450-061	FHLB Bond - 3130AJZ36	91,341.00	175.00	91,516.00
99-1450-063	FHLB Step-Up Bond - 3130AR2X8	97,529.00	454.00	97,983.00
99-1450-065	U.S. Treasury Bill 912796ZY8	243,525.00	1,117.50	244,642.50
99-1450-067	FHLB Step-Up Bond - 3130ARPU9	98,752.00	326.00	99,078.00
99-1450-068	FHLB Step-Up Bond - 3130AMAW2	229,035.00	230.00	229,265.00
TOTAL: Cash in Bank		4,489,974.18	383,292.30	4,873,266.48
TOTAL CASH IN BANK		4,489,974.18	383,292.30	4,873,266.48
DUE TO OTHER FUNDS				
99-2601-000	Due to Other Funds	4,489,974.18	383,292.30	4,873,266.48
TOTAL DUE TO OTHER FUNDS		4,489,974.18	383,292.30	4,873,266.48

Claim on Cash	4,873,266.48	**Claim on Cash**	4,873,266.48	**Cash in Bank**	4,873,266.48
Cash in Bank	4,873,266.48	**Due To Other Funds**	4,873,266.48	**Due To Other Funds**	4,873,266.48
Difference	0.00	**Difference**	0.00	**Difference**	0.00

ACCOUNT #	ACCOUNT NAME	BEGINNING BALANCE	CURRENT ACTIVITY	CURRENT BALANCE
ACCOUNTS PAYABLE PENDING				
01-2555-000	AP Pending - General District	1,544,618.42	158,970.24	1,703,588.66
02-2555-000	AP Pending - IDA	225,923.03	(12,502.96)	213,420.07
10-2555-000	AP Pending - Yuima General District Capital	31,684.06	(21,471.74)	10,212.32
TOTAL ACCOUNTS PAYABLE PENDING		1,802,225.51	124,995.54	1,927,221.05
DUE FROM OTHER FUNDS				
99-1501-000	Due From General District	(1,544,618.42)	(158,970.24)	(1,703,588.66)
99-1502-000	Due From IDA	(225,923.03)	12,502.96	(213,420.07)
99-1510-000	Due From General District Capital	(31,684.06)	21,471.74	(10,212.32)
TOTAL DUE FROM OTHER FUNDS		(1,802,225.51)	(124,995.54)	(1,927,221.05)
ACCOUNTS PAYABLE				
99-2555-000	Accounts Payable	1,802,225.51	124,995.54	1,927,221.05
TOTAL ACCOUNTS PAYABLE		1,802,225.51	124,995.54	1,927,221.05

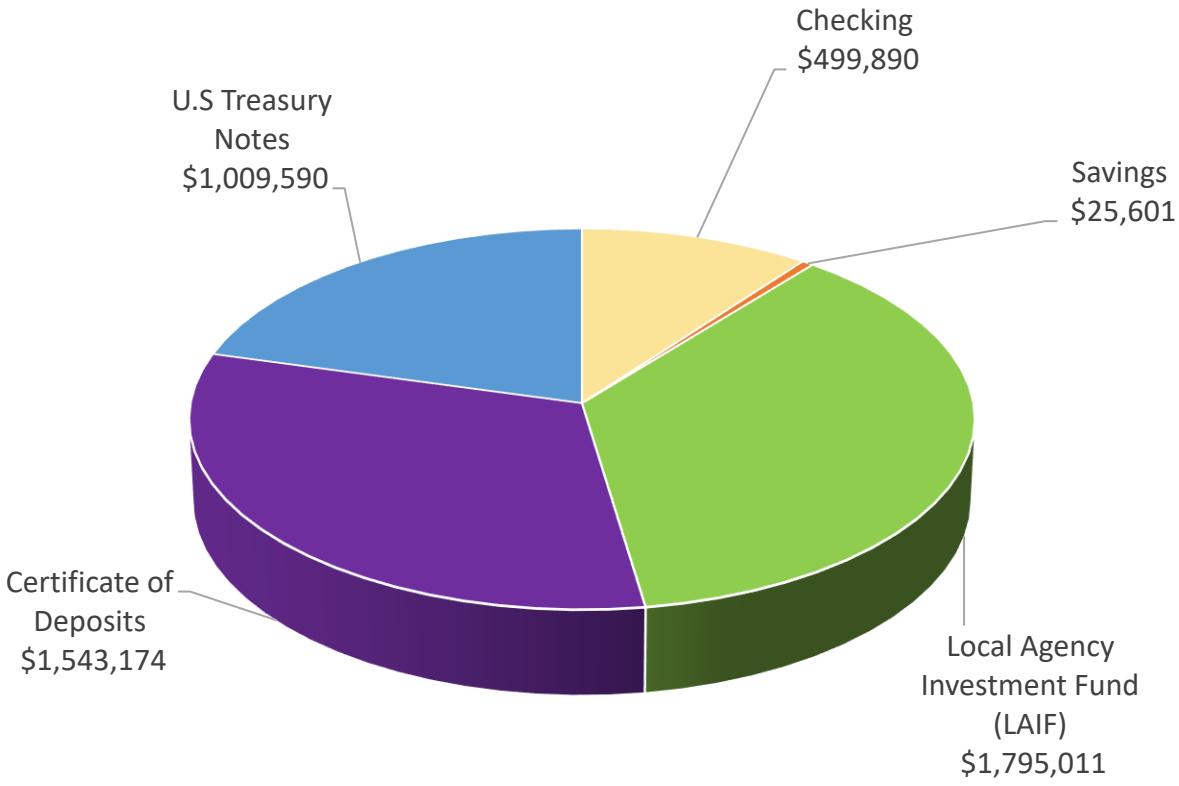
AP Pending	1,927,221.05	**AP Pending**	1,927,221.05	**Due From Other Funds**	1,927,221.05
Due From Other Funds	1,927,221.05	**Accounts Payable**	1,927,221.05	**Accounts Payable**	1,927,221.05
Difference	0.00	**Difference**	0.00	**Difference**	0.00

Yuima Municipal Water District

Cash & Investments Data

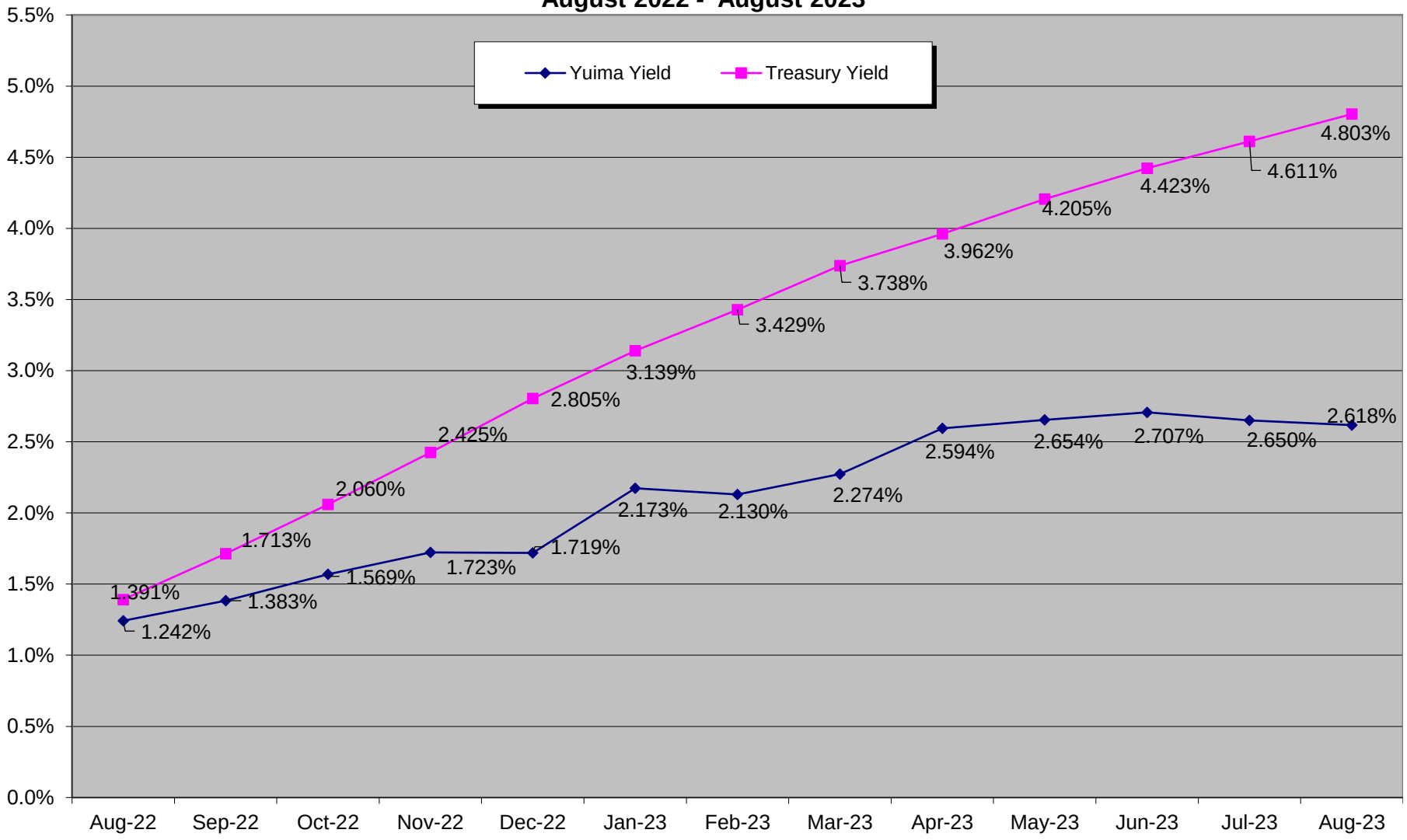
August 2023

$4,873,266.48



Aggregate Yuima Portfolio Yield

August 2022 - August 2023



PMIA/LAIF Performance Report as of 09/14/23

Quarterly Performance Quarter Ended 06/30/23

LAIF Apportionment Rate[2]:	3.15
LAIF Earnings Ratio[2]:	0.00008636172883763
LAIF Administrative Cost[1]*:	0.06
LAIF Fair Value Factor[1]:	0.984828499
PMIA Daily[1]:	3.26
PMIA Quarter to Date[1]:	3.01
PMIA Average Life[1]:	260

PMIA Average Monthly Effective Yields[1]

August	**3.434**
July	3.305**
June	3.167
May	2.993
April	2.870
March	2.831

Pooled Money Investment Account Monthly Portfolio Composition [1] 08/31/23 $168.1 billion

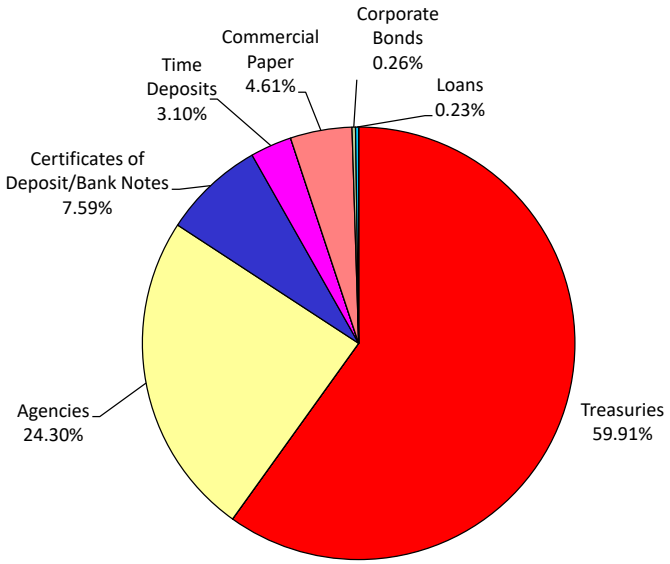


Chart does not include $2,496,000.00 in mortgages, which equates to 0.002%. Percentages may not total 100% due to rounding.

Daily rates are now available here. View PMIA Daily Rates

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1) and interest earned on the Wildfire Fund loan pursuant to Public Utility Code 3288 (a).

**The percentage of administrative cost equals the total administrative cost divided by the quarterly interest earnings. The law provides that administrative costs are not to exceed 5% of quarterly EARNINGS of the fund. However, if the 13-week Daily Treasury Bill Rate on the last day of the fiscal year is below 1%, then administrative costs shall not exceed 8% of quarterly EARNINGS of the fund for the subsequent fiscal year.*

*** Revised*

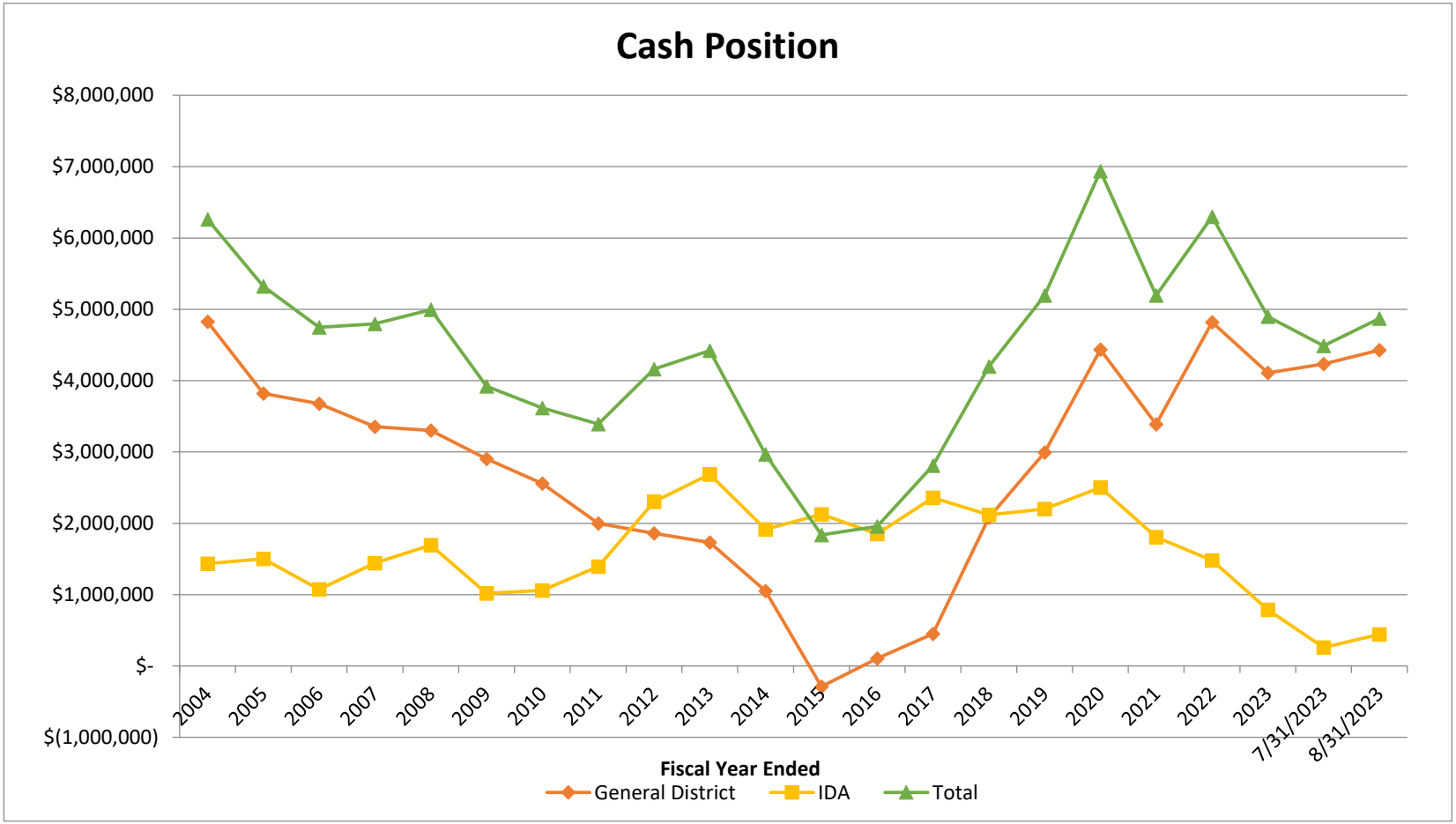
Source:
[1] State of California, Office of the Treasurer
[2] State of Calfiornia, Office of the Controller

State of California
Pooled Money Investment Account
Market Valuation
8/31/2023

Description	Carrying Cost Plus Accrued Interest Purch.	Fair Value	Accrued Interest
United States Treasury:			
Bills	$ 22,023,789,518.08	$ 22,394,918,000.00	NA
Notes	$ 78,659,969,162.05	$ 76,762,511,000.00	$ 352,718,311.00
Federal Agency:			
SBA	$ 294,597,465.19	$ 293,910,724.75	$ 1,303,888.28
MBS-REMICs	$ 2,496,528.70	$ 2,437,489.70	$ 11,034.70
Debentures	$ 8,171,256,546.87	$ 8,011,534,400.00	$ 53,443,992.40
Debentures FR	$ -	$ -	$ -
Debentures CL	$ 1,350,000,000.00	$ 1,311,878,000.00	$ 12,502,464.50
Discount Notes	$ 27,765,399,791.62	$ 28,146,053,000.00	NA
Supranational Debentures	$ 3,270,170,437.63	$ 3,203,417,800.00	$ 22,878,064.10
Supranational Debentures FR	$ -	$ -	$ -
CDs and YCDs FR	$ -	$ -	$ -
Bank Notes	$ 100,000,000.00	$ 99,951,176.99	$ 3,004,166.67
CDs and YCDs	$ 12,650,000,000.00	$ 12,644,810,352.00	$ 238,227,250.00
Commercial Paper	$ 7,748,831,013.87	$ 7,834,453,944.44	NA
Corporate:			
Bonds FR	$ -	$ -	$ -
Bonds	$ 438,848,712.92	$ 415,141,150.00	$ 2,753,541.98
Repurchase Agreements	$ -	$ -	$ -
Reverse Repurchase	$ -	$ -	$ -
Time Deposits	$ 5,203,000,000.00	$ 5,203,000,000.00	NA
PMIA & GF Loans	$ 380,513,000.00	$ 380,513,000.00	NA
TOTAL	$ 168,058,872,176.93	$ 166,704,530,037.88	$ 686,842,713.63

Fair Value Including Accrued Interest $ 167,391,372,751.51

Repurchase Agreements, Time Deposits, PMIA & General Fund loans, and
Reverse Repurchase agreements are carried at portfolio book value (carrying cost).


Cash Position
$8,000,000
$7,000,000
$6,000,000
$5,000,000
$4,000,000
$3,000,000
$2,000,000
$1,000,000
$-
$(1,000,000)
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
7/31/2023
8/31/2023
Fiscal Year Ended
General District
IDA
Total

ACTION DISCUSSION

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF YUIMA MUNICIPAL WATER DISTRICT SETTING FORTH WATER CONNECTION FEES (CAPACITY CHARGES) FOR 2024 AND FIXING TIME AND PLACE OF HEARING AND GIVING NOTICE OF HEARING

WHEREAS, the Yuima Municipal Water District has heretofore been duly and regularly formed; and

WHEREAS, the Board of Directors of the Yuima Municipal Water District adopted Ordinance No. 104-10 on January 25, 2010, providing that water connection fees (capacity fees) will be reviewed annually and adjusted to conform with changes in construction costs as determined by the Engineering News Record ("ENR") construction cost index and changes in the infrastructure and asset values from the audited annual financial statements of the district; and

WHEREAS, it is determined to be in the best interest of the inhabitants, landowners, water consumers and taxpayers of the District that a capacity charge be fixed for water capital facilities needed by the District to serve new connections within the existing service area of the District; and

WHEREAS, in order to invite comments from the public, it is necessary to schedule a public hearing and give appropriate notice.

NOW, THEREFORE, IT IS HEREBY FOUND, DETERMINED, DECLARED AND RESOLVED AS FOLLOWS:

1. That the Recitals set forth hereinabove are true.

2. That the Proposed capacity charge be adjusted to conform with changes in construction costs as determined by the Engineering News Record ("ENR") construction cost index.
3. That a hearing before the Board of Directors of Yuima Municipal Water District shall be held at 2:10 p.m. on October 23, 2023 at the office of the District 34928 Valley Center Road, Pauma Valley, California, for the purpose of considering the adoption of an ordinance which will fix and establish said capacity charge.
4. The Secretary cause notice of the time and place of said hearing to be published in a newspaper of general circulation, published, and circulated within said district, once a week for two successive weeks prior to said hearing.
5. That any owner of property within the District may appear and present objections or protests at said hearing or may file with the Secretary of the District, at any time prior to the hour set for said hearing, a written objection or protest to the proposed Capacity charge.

PASSED AND ADOPTED at a regular adjourned meeting of the Board of Directors of YUIMA MUNICIPAL WATER DISTRICT held September 25, 2023 by the following roll-call vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

_____
Roland Simpson, President

ATTEST:

_____
Don Bromell, Secretary/Treasurer

NOTICE TO ALL PROPERTY OWNERS WITHIN
YUIMA MUNICIPAL WATER DISTRICT

NOTICE IS HEREBY GIVEN, that the Board of Directors of the Yuima Municipal Water District, will hold a public hearing on the adoption of a proposed ordinance which would increase the existing connection fee (capacity charge) to conform with changes in construction costs as determined by the Engineering News Record ("ENR") construction cost index on new service connections for 2024.

A public hearing on the proposed ordinance will be held on Monday, October 23, 2023 at 2:10 o'clock p.m. at the office of the District, 34928 Valley Center Road, Pauma Valley, California. Any owner of property within the District may appear and present objections or protests or may file with the Secretary of the District, at any time prior to the hour set for the hearing, written protests or objections to the proposed connection fee increase.

BY ORDER of the Board of Directors of the Yuima Municipal Water District.

The Proposed fee for consideration at the October meeting is shown below:

	(EDU)	Current	Proposed
Under 1"	1	$3,338	$3,779
1"	1.6	5,341	6,046
1 1/2"	3	10,017	11,339
2"	5.2	17,361	19,653
3"	9.6	32,048	36,278
4"	16.4	54,752	61,979
6"	30	100,155	113,375
8"	52	173,600	196,515

GEOSCIENCE

The First Name in Groundwater

August 31, 2023

Ms. Amy Reeh
General Manager
Yuima Municipal Water District
PO Box 177, Pauma Valley, CA 92061
Claremont, CA 91711

Re: Aquifer Testing and Analysis in the Upper San Luis Rey Groundwater Subbasin

Dear Amy:

This letter summarizes aquifer testing conducted in the Upper San Luis Rey (USLR) Groundwater Subbasin to further develop data for basin aquifer parameters, transmissivity and storativity to be used to refine the groundwater model at a later date for on-going basin management considerations. A constant rate test was performed at Yuima Municipal Water District (YMWD) Well 20. YMWD Well 19, located 250 ft from Well 20 was used as an observation well during the test. These wells were selected for testing after a site reconnaissance visit to make sure the selected wells are properly equipped with working totalizer, water level monitoring ports, and transducer installation capabilities. Both wells are located on a parcel of land approximately 1,800 ft northwest of intersection Highway 76 and Lazy H Drive in Pauma Valley, CA. The aquifer parameters specified herein are based on analysis of data collected during the constant rate test performed in May/June 2023 (see Attachment A).

Testing Issues

To reduce risk of well interference, Geoscience coordinated with YMWD, McMillan Farming, Peppercorn Mutual Water Company, and Rancho Pauma Mutual Water Company to pause pumping on May 31st through June 1st, 2023 at 23 nearby pumping wells. McMillan Farming and Peppercorn Mutual Water Company reported shutting pumping wells off starting at 11 A.M. on May 31st, an hour before the start of the pumping test. During the pumping test, water levels in the pumping and observation well started to recover while pumping at a constant rate at 50 and 62 minutes, respectively, and continued recovering through the end of pumping suggesting that one or more pumping wells had not been turned off, effecting

the trend of the water levels (see Figures 1 & 2). At the end of the initial scheduled 24-hour pumping period, the test was extended to a total of 48-hours of consecutive pumping.

Methodology

During the pumping test, the pumping water level and discharge rate were closely monitored (see Attachment A). The field procedure for these tests followed the American Society for Testing and Materials (ASTM, 1994, standard test method D 4050).

According to Jacob (1950), for small values of "u" ($u < 0.05$), the Theis Equation may be approximated by Jacob's Equation:

$$s(r,t) = \frac{264Q}{T}\log\left(\frac{0.3\,Tt}{r^2\,S}\right)$$ "Jacob's Equation"

Jacob's Equation is valid for use for most hydrogeologic problems of practical interest, is easier to use than the Theis equation, and involves a simple graphical procedure to calculate transmissivity and storativity. This method (D 4105) is summarized by ASTM (1994).

Transmissivity (T, in gpd/ft) can be calculated as:

$$T = \frac{264Q}{\Delta s}$$

where:

Q = Pumping rate, [gpm]
Δs = Change in drawdown over one log cycle of time, [ft]

Storativity can be calculated as:

$$S = \frac{0.3Tt_0}{r^2}$$

where:

T = Transmissivity, [gpd/ft]
t_0 = Time at the zero-drawdown intercept, [days]
r = Radial distance from the pumping well, [ft]

Additionally, residual drawdown analysis (Theis, 1935) was performed to estimate aquifer properties from recovery data in the pumping well to compare to values calculated from the pumping test. The procedure involves fitting a straight line on a residual drawdown plot of s' (residual drawdown) versus t/t' (ratio of time since pumping began to time since pumping stopped).

Lastly, Geoscience's in-house geologic toolbox program (USGS, 1963) and Driscoll's equation (Driscoll, 1986) were utilized to estimate transmissivity from specific capacity and was compared to the values calculated from the pumping tests. According to Driscoll (1986), the following equations estimate transmissivity:

$T = 2{,}000 * Q/s$ (confined aquifer)

$T = 1{,}500 * Q/s$ (unconfined aquifer)

where:

T = Transmissivity, [gpd/ft]
Q/s = Specific Capacity, [gpm/ft]

Results

The 48-hour constant rate pumping test was conducted on May 31st through June 2nd, 2023, at an average discharge rate of 329 gpm in Well 20. Evaluation of water level change data obtained from the pumping and observation well, using Jacob's straight-line interpretation was delineated using water level data before the start of recovery at 50 and 62 minutes, respectively. Results show an aquifer transmissivity of approximately 26,300 gallons per day, per foot (gpd/ft) in Well 20 and 37,700 gpd/ft in Well 19 with a storativity value of 0.0007 (see Figures 1 & 2).

Residual drawdown analysis from data obtained from the Well 20 was not valid as measured water levels recovered above the static water level within 3 minutes following the end of pumping.

Based on review of specific capacity data (discharge rate / drawdown during pumping) obtained from the pumping well, transmissivity can be estimated using Driscoll's approximation equation (Driscoll, 1986). Assuming confined conditions, and using a range of specific capacity values between 16.7 to 12 gpm/ft obtained prior to the recovery event and at the end of the pumping test, respectively, transmissivity values range from 33,400 to 24,000 gpd/ft. Transmissivity values range from 25,000 to 18,000 gpd/ft in unconfined conditions. The specific capacity value of 16.7 gpm/ft is more representative of the aquifer's characteristics under the observed pumping conditions.

Estimates of aquifer transmissivity were calculated utilizing Geoscience's in-house geologic toolbox (USGS, 1963). Assuming a well efficiency of 70%, storativity value of 0.1 (for unconfined aquifer) and 0.005

(for semi-confined aquifer), and using the same measured specific capacity values of 16.7 and 12 gpm/ft, estimated transmissivity values range from 31,300 and 21,800 gpd/ft, respectively in an unconfined aquifer. Estimated transmissivity values range from 40,200 and 28,200 gpd/ft in a semi-confined aquifer.

Conclusion

Table 1 below summarizes transmissivity values using the various methods described above. Coordinating efforts to stop nearby well pumping during the constant rate test were performed. YMWD Well 20 (pumping well) and YMWD Well 19 (observation well) both observe recovering water levels 50 and 62 minutes into pumping, respectively. The pumping test was extended to 48-hours in efforts to observe water levels stabilize in a normal downward constant rate trend, but water levels in both wells continued to recover throughout the entire pumping period. A nearby well or wells possibly shut off early into the pumping test and affected water levels.

Table 1: Comparison of Calculated Transmissivity Values Using Various Methods

Method	Transmissivity			
	gpd/ft			
Jacobs Straight-Line Interpretation (Observation Well)	37,700			
Jacobs Straight-Line Interpretation (Pumping Well)	26,300			
	Unconfined		*Confined*	
Driscoll, 1986	18,000 [1]	25,000 [2]	24,000 [1]	33,400 [2]
Geoscience In-House Geologic Toolbox (USGS, 1963)	21,800 [1]	31,300 [2]	28,200 [1]	40,200 [2]

[1] specific capacity of 12 gpm/ft

[2] specific capacity of 16.7 gpm/ft

If you have any questions, please contact me at your convenience.

Sincerely,

Brian Villalobos, PG, CHG, CEG
Principal Geohydrologist

Alexander Arita
Senior Associate Geohydrologist

References

American Society for Testing and Materials, 1994. Standard Test Method for (Field Procedure) for Withdrawal and Injection Well Testing for Determining Hydraulic Properties of Aquifer Systems.

Driscoll, F. G., 1986. Groundwater and Wells (2nd Edition). Johnson Division, St. Paul Minnesota, p. 1021.

Jacob, C. E., 1950. Engineering Hydraulics. John Wiley & Sons, New York.

Theis, C. V., 1935. The Relation Between the Lowering of the Piezometric Surface and the Rate and Duration of Discharge of a Well Using Groundwater Storage, Am. Geophys. Union Trans., vol. 16 pp. 519-524.

United States Geological Survey, 1963. Methods of Determining Permeability, Transmissivity, and Drawdown, Water Supply Paper 1963. U.S. Government Publishing Office.

Constant Rate Pumping Test
YMWD Well 20

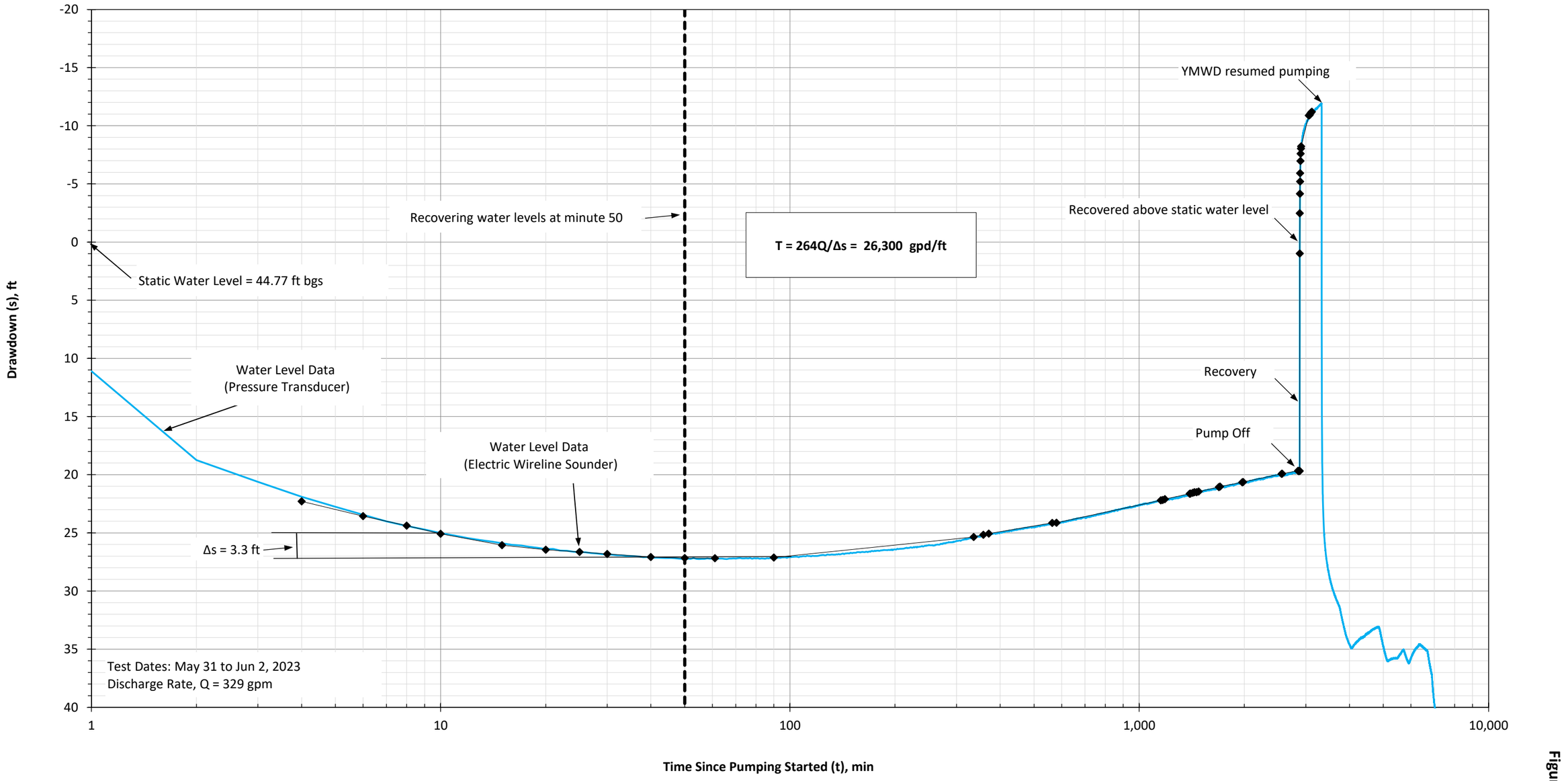


Figure 1

Time-Drawdown Analysis
Pumping Well: YMWD Well 20
Observation Well: YMWD Well 19

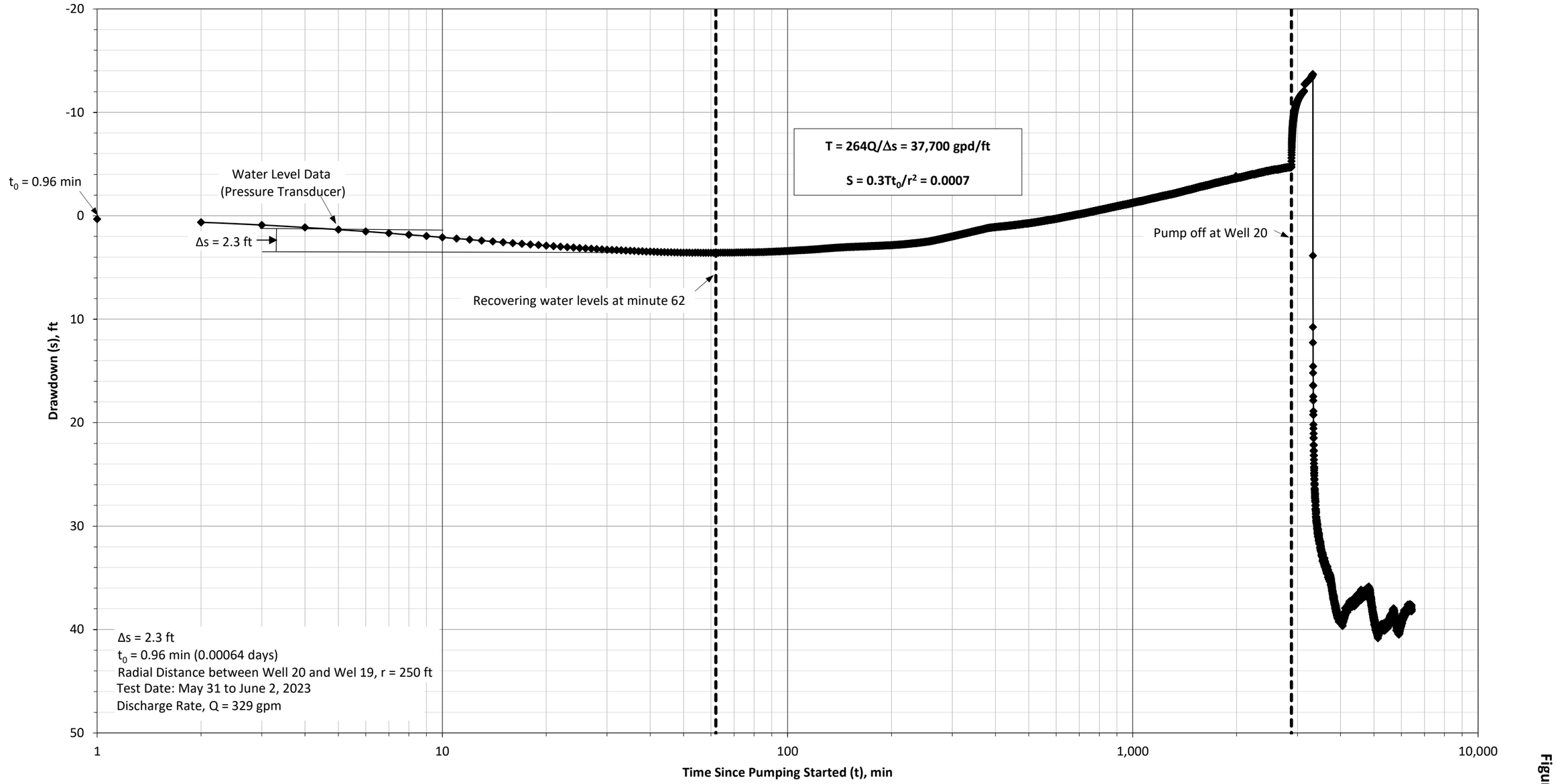


Figure 2

GEOSCIENCE

GEOSCIENCE Support Services, Inc.
P.O. Box 220, Claremont, CA 91711
Tel: (909) 451-6650 Fax: (909) 451-6638
www.gssiwater.com

PUMPING TEST DATA

Test Date: 5/31/23 to 6/2/23

Well Name: YMWD Well 20

Circle Well Type: (Pumping) Observation (r = ft)

Circle Test Type: Step Drawdown (Constant Rate) Recovery Development

Static Water Level Depth: 44.77 ft bgs Reference Point Elevation: 3.26 ft ags

Time of Day	Time Step [min]	Time Total [min]	Depth to Water [ft brp]	Draw-down [ft]	Pumping Rate [gpm]	Sand Content [ppm]	Totalizer [100ft3]	Remarks and Other Data
12:00	0	0	48.03	-	-	-	89,857.70	Pump on
12:02	2	2	-	-	-	-	-	
12:04	4	4	70.32	22.29	174	-	89,858.63	
12:06	6	6	71.59	23.56	337	-	89,859.53	
12:08	8	8	72.41	24.38	337	-	89,860.43	
12:10	10	10	73.11	25.08	325	-	89,861.30	
12:15	15	15	74.09	26.06	326	-	89,863.48	
12:20	20	20	74.48	26.45	314	-	89,865.58	
12:25	25	25	74.67	26.64	340	-	89,867.85	
12:30	30	30	74.84	26.81	329	-	89,870.05	
12:40	40	40	75.11	27.08	325	-	89,874.40	
12:50	50	50	75.20	27.17	325	-	89,878.75	
13:01	61	61	75.21	27.18	326	-	89,883.55	
13:15	75	75	-	-	326	-	89,889.65	
8:30	90	90	75.15	27.12	325	-	89,896.18	
17:36	336	336	73.38	25.35	327	-	90,003.65	
17:58	358	358	73.20	25.17	327	-	90,013.28	
18:11	371	371	73.10	25.07	329	-	90,019.00	
21:24	564	564	72.17	24.14	328	-	90,103.50	
21:40	580	580	72.16	24.13	327	-	90,110.50	
7:14	1,154	1,154	70.24	22.21	328	-	90,362.43	
7:28	1,168	1,168	70.20	22.17	329	-	90,368.58	
7:45	1,185	1,185	70.13	22.10	329	-	90,376.05	
11:15	1,395	1,395	69.66	21.63	329	-	90,468.35	
11:23	1,403	1,403	69.65	21.62	330	-	90,471.88	
11:43	1,423	1,423	69.59	21.56	306	-	90,480.05	
12:00	1,440	1,440	69.54	21.51	356	-	90,488.15	
12:21	1,461	1,461	69.53	21.50	328	-	90,497.35	
12:40	1,480	1,480	69.47	21.44	329	-	90,505.70	
16:10	1,690	1,690	69.09	21.06	329	-	90,598.08	
16:25	1,705	1,705	69.05	21.02	328	-	90,604.65	
20:54	1,974	1,974	68.69	20.66	329	-	90,723.10	
21:04	1,984	1,984	68.66	20.63	327	-	90,727.48	
6:37	2,557	2,557	67.96	19.93	330	-	90,979.88	
6:47	2,567	2,567	67.95	19.92	331	-	90,984.30	
11:30	2,850	2,850	67.69	19.66	330	-	91,109.00	
11:40	2,860	2,860	67.72	19.69	329	-	91,113.40	
11:45	2,865	2,865	67.72	19.69	329	-	91,115.60	
11:55	2,875	2,875	67.71	19.68	329	-	91,120.00	Q_{avg} = 328.5 gpm; Q/s = 16.7 gpm/ft
12:00	2,880	2,880	67.71	19.68	329	-	91,122.48	Pump off

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Tel: (909) 451-6650 Fax: (909) 451-6638
www.gssiwater.com

PUMPING TEST DATA

Test Date: June 2, 2023

Well Name: YMWD Well 20

Circle Well Type: (Pumping) Observation (r = ft)

Circle Test Type: Step Drawdown Constant Rate (Recovery) Development

Static Water Level Depth: 44.77 ft bgs Reference Point Elevation: 3.26 ft agl

Time of Day	Time Step [min]	Time Total [min]	Depth to Water [ft]	Draw-down [ft]	Pumping Rate [gpm]	Sand Content [ppm]	Totalizer [100ft3]	Remarks and Other Data
12:00	0	2,880	67.71	19.68	-	-	-	Pump off
12:02	2	2,882	49.02	0.99	-	-	-	
12:04	4	2,884	45.55	-2.48	-	-	-	
12:06	6	2,886	43.87	-4.16	-	-	-	
12:08	8	2,888	42.83	-5.20	-	-	-	
12:10	10	2,890	42.11	-5.92	-	-	-	
12:15	15	2,895	41.06	-6.97	-	-	-	
12:20	20	2,900	40.43	-7.60	-	-	-	
12:25	25	2,905	39.99	-8.04	-	-	-	
12:28	28	2,908	39.81	-8.22	-	-	-	
15:00	180	3,060	37.15	-10.88	-	-	-	
15:15	195	3,075	37.12	-10.91	-	-	-	
15:30	210	3,090	37.00	-11.03	-	-	-	
15:45	225	3,105	36.90	-11.13	-	-	-	
16:00	240	3,120	36.82	-11.21	-	-	-	

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GEOSCIENCE Support Services, Inc.
P.O. Box 220, Claremont, CA 91711
Tel: (909) 451-6650 Fax: (909) 451-6638
www.gssiwater.com

PUMPING TEST DATA

Test Date: 5/31/23 to 6/2/23

Well Name: YMWD Well 19

Circle Well Type: Pumping (Observation (r= 250 ft)

Circle Test Type: Step Drawdown (Constant Rate) (Recovery) Development

Static Water Level Depth: 51.23 ft bgs Reference Point Elevation: 4.03 ft ags

Time of Day	Time Step [min]	Time Total [min]	Depth to Water [ft brp]	Draw-down [ft]	Pumping Rate [gpm]	Sand Content [ppm]	Totalizer [100ft3]	Remarks and Other Data
12:00	0	0	55.26		-	-	-	Pump on at Well 20
12:43	43	43	57.39	2.13				
12:54	54	54	57.59	2.33	-	-	-	
12:08	8	8	57.66	2.40	-	-	-	
13:04	64	64	57.68	2.42	-	-	-	
17:41	341	341	55.67	0.41	-	-	-	
18:15	375	375	55.36	0.10	-	-	-	
21:29	569	569	54.55	-0.71	-	-	-	
7:20	1,160	1,160	52.38	-2.88	-	-	-	
7:49	1,189	1,189	52.31	-2.95	-	-	-	
11:18	1,398	1,398	51.77	-3.49	-	-	-	
12:44	1,484	1,484	51.56	-3.70	-	-	-	
16:03	1,683	1,683	51.12	-4.14	-	-	-	
8:30	1,993	1,993	50.75	-4.51	-	-	-	
6:52	2,572	2,572	49.75	-5.51	-	-	-	
11:47	2,867	2,867	49.48	-5.78	-	-	-	
12:12	2,892	2,892	46.99	-8.27	-	-	-	Pump off at Well 20 at minute 2,880
12:30	2,910	2,910	45.25	-10.01	-	-	-	
15:34	3,094	3,094	42.34	-12.92	-	-	-	
15:48	3,108	3,108	42.20	-13.06	-	-	-	
16:13	3,133	3,133	42.08	-13.18	-	-	-	
16:30	3,150	3,150	41.99	-13.27	-	-	-	

GEOSCIENCE

The First Name in Groundwater

August 30, 2023

Mrs. Amy Reeh
General Manager
Yuima Municipal Water District
PO Box 177, Pauma Valley, CA 92061

Re: Results of Drilling and Construction
Upper San Luis Rey MW-1D and MW-1S

Dear Amy,

This letter summarizes the recent drilling and construction of a new clustered monitoring well for Yuima Municipal Water District (YMWD), referred to as the Upper San Luis Rey (USLR) MW-1S (Shallow) and MW-1D (Deep), located approximately 2,400 ft west of Highway 76, north of Pala Road within the unincorporated community of Pauma Valley, California (see Figure 1). The drilling and construction of MW-1D and MW-1S was performed by Stehly Brothers Drilling Inc. (Stehly Brothers) between May and July 2023.

The primary purposes for the drilling and construction of this monitoring well is to fill data gaps within this portion of the basin, thereby increasing the hydrogeologic understanding of the area and providing important information on specific conditions for future inclusion to updates of the Groundwater Sustainability Plan. The well was constructed as clustered monitoring wells with two (2) 4-inch PVC completions, designated MW-1D (Deep) and MW-1S (Shallow).

1.0 GENERAL GEOHYDROLOGY OF THE WELL SITE

ULSR MW-1D and MW-1S is located within the Upper San Luis Rey Valley in the Pauma Subbasin of the San Luis Rey Groundwater Basin. The primary groundwater aquifer within the Upper San Luis Rey River Valley-Pauma Sub-basin is the unconsolidated alluvium which overlies bedrock formations. Alluvial sediments in valleys are generally thickest under the San Luis Rey River. In Pauma Valley, sediments may be up to 600 ft thick in localized areas of the northeast portion of the subbasin (Layne, 2010).

In general, unconsolidated alluvial sediments encountered within the Pauma Sub-basin are typical of sediments associated with a meandering stream system such as the San Luis Rey River. The main geologic units found in the Upper San Luis Rey River Valley Groundwater Subbasin include (from oldest to youngest): bedrock, older alluvium, localized lakebed deposits, alluvial fan deposits, and younger alluvium.

2.0 WELL DRILLING, TESTING, AND CONSTRUCTION

Drilling and construction activities were performed by Stehly Brothers between May and July 2023. The work performed included the following:

USLR MW-1D:

- May 30, 2023: Drilling of 17-inch diameter conductor borehole using the mud rotary drilling method. The borehole was advanced to a depth of approximately 20 ft below ground surface (ft bgs). Installed 10-inch steel conductor casing and installed annular seal to ground level.
- May 31–June 2, 2023: Drilling of 10-inch diameter borehole using the mud rotary drilling method. The borehole was advanced to a depth of approximately 148 ft bgs.
- June 5, 2023: Geophysical borehole logging of the 10-inch borehole.
- June 7–June 8, 2023, and June 20, 2023: Construction of MW-1D.
- June 8–July 4, 2023: Initial development by open end airlifting, airlifting, and swabbing.
- July 5–July 6, 2023: Final development by pumping MW-1D. Following the development of each completion, groundwater samples were collected and submitted to Clinical Laboratories of San Bernardino (Clinical) for analysis of select constituents.
- July 8, 2023: Final well head completion, site clean-up, and contractor demobilization.

USLR MW-1S:

- June 9, 2023: Drilling of 17-inch diameter conductor borehole using the mud rotary drilling method. The borehole was advanced to a depth of approximately 20 ft bgs. Installed 10-inch steel conductor casing and installed annular seal to ground level.
- June 12, 2023: Drilling of 10-inch diameter borehole using the mud rotary drilling method. The borehole was advanced to a depth of approximately 65 ft bgs.
- June 13–14, 2023, and June 20, 2023: Construction of MW-1S.
- June 14–July 11, 2023: Initial development by open end airlifting, airlifting, and swabbing.
- July 12, 2023: Final development by pumping MW-1S. Following the development of each completion, groundwater samples were collected and submitted to Clinical Laboratories of San Bernardino (Clinical) for analysis of select constituents.
- July 15, 2023: Final well head completion, site clean-up, and contractor demobilization.

2.1 Conductor Casing Installation

At both drilling locations, a 17-inch diameter conductor borehole was drilled to a depth of approximately 20 ft bgs using a direct mud rotary drilling rig. The 10.75-inch outside diameter (OD) by 0.25-inch wall low carbon steel conductor casing was installed to 20 ft bgs and cemented in place from the bottom of the borehole to ground surface with 10.3 sack cement. Drilling and installation at MW-1D was completed on May 30, 2023, and drilling and installation was completed at MW-1S on June 9, 2023.

2.1 Pilot Borehole Drilling

A nominal 10-inch diameter pilot borehole was drilled at the USLR MW-1D and MW-1S location using a direct mud rotary drilling rig. Drilling of the MW-1D borehole began on May 30, 2023 and was advanced to a total depth of 148 ft bgs by June 2, 2023. Drilling of MW-1S began on June 9, 2023 and was advanced to a total depth of 65 ft bgs by June 12, 2023. Figure 2 shows the as-built drawings of the wells as they were constructed and includes details of the drilling and construction.

Formation materials from drilling efforts at USLR MW-1D consist predominately of fine- to coarse-grained sand with lesser amounts of fine and coarse gravel to depth of approximately 53 ft bgs. From 53 to 95 ft bgs, formation material consisted predominantly of clay with lesser amounts of fine sand. From 95 to approximately 127 ft bgs, formation samples consisted of fine- to coarse-sand with fine gravel. Minerals in this interval showed signs of weathering (i.e., discoloration), but contained relatively angular fragments, suggesting the possibility of a weathered bedrock surface. Competent granitic bedrock was encountered at a depth of 127 ft bgs and continued to the bottom of the borehole at 148 ft bgs. A detailed lithological log of the MW-1D and MW-1S borehole is presented in Figure 3.

2.2 Geophysical Borehole Logging

Upon reaching a final depth of 148 ft bgs in the 10-inch diameter borehole in MW-1D, fluids in the borehole were circulated for an adequate amount of time to verify the borehole stability before removing the drilling string. A suite of geophysical borehole logs was then run by Victory Well Surveys on June 5, 2023, which included the following:

(1) 16-inch short-normal and 64-inch long-normal resistivity;
(2) Spontaneous potential (SP);
(3) Laterlog 3 (focused resistivity – guard);
(4) Gamma-ray; and
(5) Acoustic (sonic) with a variable density log (VDL) and sonic porosity.

Attachment A contains the original geophysical logs.

2.3 Casing and Screen Design

Based on the data collected from both the formation samples and the geophysical borehole logs (MW-1D), the final design for the clustered monitoring wells was completed. Well construction activities, including the installation of the well casing, screen, filter pack, and seals, occurred between June 7 and June 8, 2023 at MW-1D and between June 13 and June 14, 2023 at MW-1S. The cement seals were installed on June 20, 2023 in both wells. Tables 1A and 1B provide the construction details for the completion of each of the monitoring wells. Figure 2 presents the as-built completion details.

Table 1A – Casing and Screen Schedule
USLR MW-1D and MW-1S

Interval [ft bgs]	Borehole Diameter [in.]	Nominal Casing Diameter [in.]	Casing Schedule	Screen Slot Size [in.]	Material Type
Deep					
+2–95	10	4	Sch 80	–	Flush Threaded Sch. 80 PVC Well Casing
95–125	10	4	Sch 80	0.020	Flush Threaded Sch. 80 PVC Slotted Well Screen with Cap
Shallow					
+2–35	10	4	Sch 80	–	Flush Threaded Sch. 80 PVC Well Casing
35–55	10	4	Sch 80	0.020	Flush Threaded Sch. 80 PVC Slotted Well Screen with Cap

Table 1B - Annular Fill Materials

USLR MW-1D and MW-1S

Interval [ft bgs]	Borehole Diameter [in.]	Material Type
Deep		
0-20	10	10.3-Sack Sand-Cement Seal
20-22	10	Bentonite-Sand Seal
22–148	10	CEMEX Lapis Lustre #3 Gravel
Shallow		
0-20	10	10.3-Sack Sand-Cement Seal
20–22	10	Bentonite Seal
22–28	10	Sand #6
28-58	10	CEMEX Lapis Lustre #3 Gravel
58-65	10	Sand #6

2.4 Well Development

USLR MW-1D and MW-1S was initially developed using a combination open-end airlifting followed by swabbing and airlifting to consolidate the filter pack after placement and to remove colloidal and fine-grained sediments from within the well, filter pack, and near-well zone. The initial development of the screened sections of each completion was completed on July 4, 2023 at MW-1D and on July 11, 2023 at MW-1S.

Final well development was conducted using a submersible test pump from July 5 to July 6, 2023 at MW-1D and July 12, 2023 at MW-1S. Final development consisted of pumping the well until the turbidity of the discharged water was less than 5 nephelometric turbidity units (NTU). The well was then "surged" repeatedly until the water discharging from the well remained below 5 NTU. Toward the end of the pump development, a series of groundwater samples were collected and submitted to Clinical for analysis. The results of this analysis are discussed in Section 3 of this report.

3.0 GROUNDWATER QUALITY

Following the development pumping of each well completion, a set of groundwater samples was collected by Geoscience personnel. The samples were submitted to Clinical for selected constituent analysis. The water quality results from each well are presented in Attachment B and summarized in Table 2 below.

All the water quality constituents were reported below the regulatory level.

Table 2 - Water Quality Analytical Results for USLR MW-1D and MW-1S

Constituent	Unit	MW-1D	MW-1S	Regulatory Standards
Alkalinity (as CaCO3)	[mg/L]	86	79	NA[5]
Arsenic	[µg/L]	1.8	ND	10[1]
Bicarbonate (as HCO3)	[mg/L]	100	96	NA[5]
Boron	[µg/L]	63	71	1,000[3]
Calcium	[mg/L]	59	35	NA[5]
Carbonate (as CO3)	[mg/L]	ND	ND	NA[5]
Chloride	[mg/L]	48	27	250–500[1]
Chromium, hexavalent	[µg/L]	ND	0.15	NA
Chromium, total	[µg/L]	4.1	1.2	50[1]
Color	[Color units]	ND	ND	15[2]
Fluoride	[mg/L]	0.25	0.34	2.0[1]
Iron	[µg/L]	23	27	300[2]
Manganese	[µg/L]	20	5.1	50[2]
Nitrate (as N)	[mg/L]	3.3	1.7	10[1]
Odor	[TON]	1	1	3[2]
Perchlorate	[µg/L]	ND	ND	6.0[1]
pH	[pH units]	7.4	7.2	6.5–8.5[4]
Sodium	[mg/L]	53	44	NA[5]
Sulfate (as SO4)	[mg/L]	160	100	250–500[2]
Total dissolved solids	[mg/L]	450	320	500–1,000[2]
Total hardness	[mg/L]	230	140	NA[5]
Total silica	[mg/L]	34	39	NA[5]
Turbidity	[NTU]	0.5	0.41	5[2]
Vanadium	[µg/L]	5.8	4.1	50[3]
1, 2, 3-Trichloropropane	[µg/L]	ND	ND	0.005[3]
Volatile Organic Compounds (EPA Method 524.2)	[µg/L]	ND	ND	Varies with Chemical[1]

1 Division of Drinking Water (DDW) primary maximum contaminant level (MCL).
2 DDW secondary MCL.
3 DDW notification level for unregulated chemicals.
4 United States Environmental Protection Agency (USEPA) secondary standard for pH.
5 DDW response level
NA Not applicable—no current MCL.
BOLD Equal to or above current DDW MCL or notification level.

4.0 WELL HEAD COMPLETION AND FINAL REPORTING

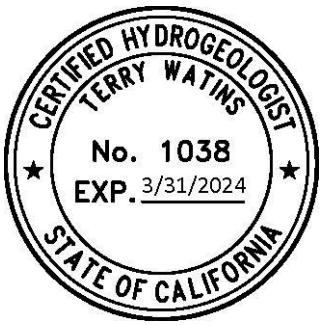
Following the development and water quality sampling, MW-1D and MW-1S were completed with a 10.75-inch diameter flush-mounted protective cover. The protective well cover was centered inside an approximately 38-inch cement pad with an approximate 1-inch slope away from the well.

Following completion of construction activities, Stehly Brothers submitted a well completion report with the State of California Department of Water Resources (DWR). A copy of the report is provided in Attachment C.

If you have any questions, please call me at your convenience.

Sincerely,

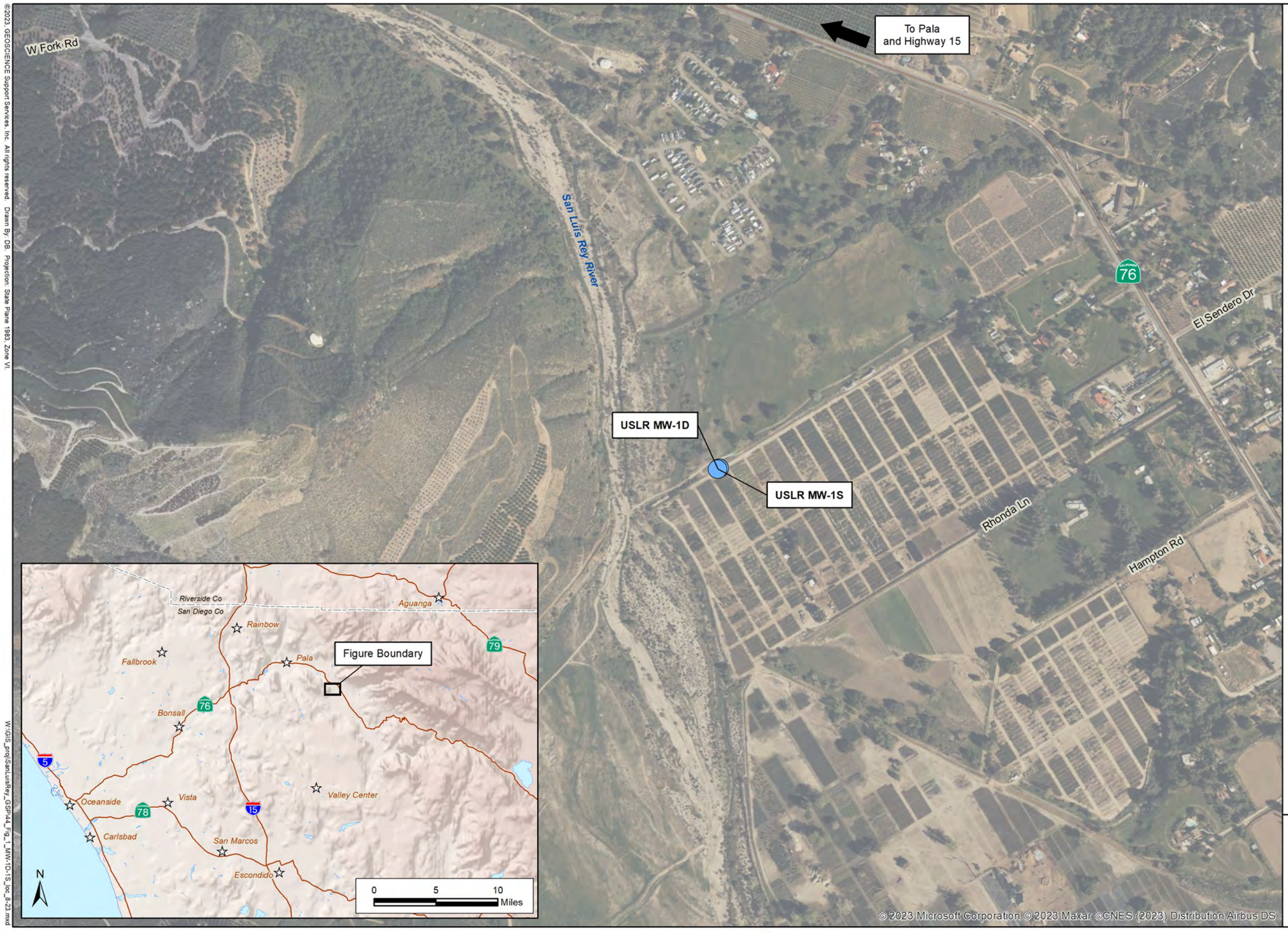
Terry Watkins, PG, CHG
Senior Geohydrologist



FIGURES

GEOSCIENCE

The First Name in Groundwater



EXPLANATION

Location of USLR MW-1D and USLR MW-1S

N

0 500 1,000

Feet

Aug-23

USLR MW-1D & MW-1S LOCATION

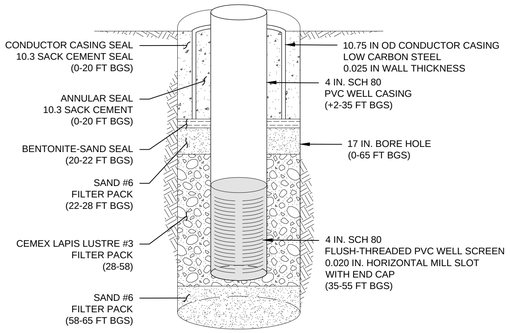
W:\GIS_proj\SanLuisRey_GSP\44_Fig_1_MW-1D-1S_loc_8-23.mxd

YUIMA MUNICIPAL WATER DISTRICT

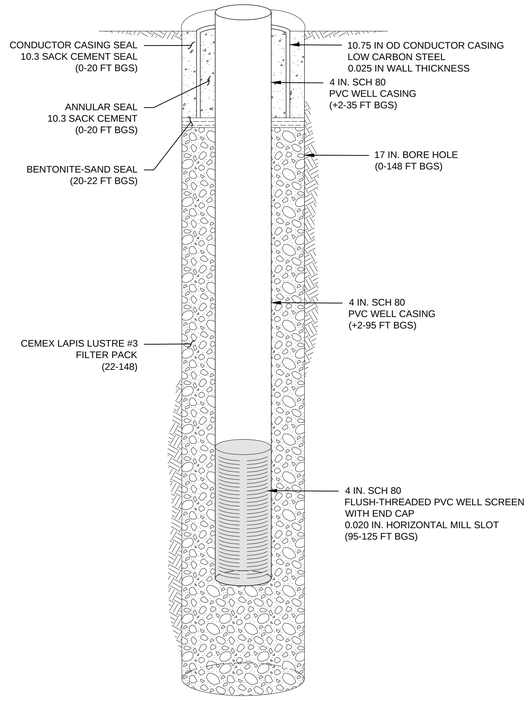
RESULTS OF DRILLING AND CONSTRUCTION UPPER SAN LUIS REY MW-1D AND MW-1S

FIGURE 1

GEOSCIENCE



MONITORING WELL MW-1S (SHALLOW)



MONITORING WELL MW-1D (DEEP)

WELL INFORMATION			
OWNER	YUIMA MUNICIPAL WATER DISTRICT		
WELL NAME	USLR MW-1D (DEEP)		
WELL LOCATION	APPROXIMATELY 2,400 FT WEST OF INTERSECTION HWY 76 AND DIRT ROAD NORTH OF PALA RD.		
LATITUDE (NAD83)	33.334048		
LONGITUDE (NAD83)	-117.012964		
LAND SURFACE ELEVATION (FT)	699		
WELL USE	MONITORING WELL		
CASING AND SCREEN SCHEDULE			
	CONDUCTOR	CASING	SCREEN
MATERIAL	LOW CARBON STEEL	SCH. 80 PVC	
NOMINAL DIAMETER (IN.)	10	4	
OUTSIDE DIAMETER (IN.)	10.75	4.50	
INSIDE DIAMETER (IN.)	10.25	3.826	
WALL THICKNESS (IN.)	0.25	0.337	
TOTAL INSTALLED LENGTH (FT)	20	97	30
INSTALLED INTERVALS (FT BGS) AND LENGTH (FT)			
INTERVAL 1	0 - 20 FT BGS (20 FT TOTAL)	+2 - 95 FT BGS (97 FT TOTAL)	95 - 125 FT BGS (30 FT TOTAL)
SCREEN PERFORATION TYPE	-	-	HORRIZONTAL MILL SLOT
PERFORATION OPENING (IN.)	-	-	0.020
CONNECTION TYPE	-	FLUSH THREADED	
CASING BOTTOM CAP	-	-	THREADED CAP
CENTRALIZER MATERIAL	-	STAINLESS STEEL	
CENTRILIZER ANGULAR SPACING	-	90°	
CENTRILIZER VERTICAL SPACING	-	ABOVE AND BELOW SCREEN	
BOREHOLE			
	CONDUCTOR	FINAL	
DRILL BIT TYPE	TRI-CONE		
DRILLING METHOD	MUD ROTARY		
DRILLING FLUID COMPOSITION	BENTONITE		
DIAMETER (IN.)	17	10	
TOTAL DEPTH (FT BGS)	20	148	
GROUTING AND SEALING			
DEPTH (FT BGS)	MATERIAL		
0 - 20	10.3 SACK CEMENT		
20 - 22	BENTONITE-SAND		
FILTER PACK DESIGN			
MATERIAL	CEMEX LAPIS LUSTRE #3 SAND		
FLUID USED FOR FILTER PACK PLACEMENT	POTABLE WATER		
FILTER PACK INTERVAL 1	22 - 148		

WELL INFORMATION			
OWNER	YUIMA MUNICIPAL WATER DISTRICT		
WELL NAME	USLR MW-1S (SHALLOW)		
WELL LOCATION	APPROXIMATELY 2,400 FT WEST OF INTERSECTION HWY 76 AND DIRT ROAD NORTH OF PALA RD.		
LATITUDE (NAD83)	33.33406		
LONGITUDE (NAD83)	-117.012935		
LAND SURFACE ELEVATION (FT)	699		
WELL USE	MONITORING WELL		
CASING AND SCREEN SCHEDULE			
	CONDUCTOR	CASING	SCREEN
MATERIAL	LOW CARBON STEEL	SCH. 80 PVC	
NOMINAL DIAMETER (IN.)	10	4	
OUTSIDE DIAMETER (IN.)	10.75	4.50	
INSIDE DIAMETER (IN.)	10.25	3.826	
WALL THICKNESS (IN.)	0.25	0.337	
TOTAL INSTALLED LENGTH (FT)	20	37	20
INSTALLED INTERVALS (FT BGS) AND LENGTH (FT)			
INTERVAL 1	0 - 20 FT BGS (20 FT TOTAL)	+2 - 35 FT BGS (37 FT TOTAL)	35 - 55 FT BGS (20 FT TOTAL)
SCREEN PERFORATION TYPE	-	-	HORRIZONTAL MILL SLOT
PERFORATION OPENING (IN.)	-	-	0.020
CONNECTION TYPE	-	FLUSH THREADED	
CASING BOTTOM CAP	-	-	THREADED CAP
CENTRALIZER MATERIAL	-	STAINLESS STEEL	
CENTRILIZER ANGULAR SPACING	-	90°	
CENTRILIZER VERTICAL SPACING	-	ABOVE AND BELOW SCREEN	
BOREHOLE			
	CONDUCTOR	FINAL	
DRILL BIT TYPE	TRI-CONE		
DRILLING METHOD	MUD ROTARY		
DRILLING FLUID COMPOSITION	BENTONITE		
DIAMETER (IN.)	17	10	
TOTAL DEPTH (FT BGS)	20	65	
GROUTING AND SEALING			
DEPTH (FT BGS)	MATERIAL		
0 - 20	10.3 SACK CEMENT		
20 - 22	BENTONITE-SAND		
FILTER PACK DESIGN			
MATERIAL	CEMEX LAPIS LUSTRE #3 SAND	SAND #6	
FLUID USED FOR FILTER PACK PLACEMENT	POTABLE WATER		
FILTER PACK INTERVAL 1	28 - 58	22 - 28	
FILTER PACK INTERVAL 2	-	58 - 65	

ABBREVIATIONS LIST:

AGS ABOVE GROUND SURFACE
BGS BELOW GROUND SURFACE
ID INSIDE DIAMETER
OD OUTSIDE DIAMETER

X:\Projects\CADAs-Builts\Yuima Municipal Water District\Drawings\YMWD MW-1_AsBuilt.dwg, 8/24/2023

GEOSCIENCE

The First Name in Groundwater
909.451.6650 | GSSIWATER.COM

811 CALL 811 AT LEAST TWO DAYS BEFORE YOU DIG
Know what's below. Call before you dig.
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV.	DATE	BY	DESCRIPTION
1			
2			
3			
4			

LINE IS 2 INCHES AT FULL SCALE (IF NOT 2" - SCALE ACCORDINGLY)
DESIGNED: AA
DRAWN: JFF
CHECKED: TW
DATE: 8/19/23

CITY ENGINEER:
_____ _____
_____, P.E. DATE
R.C.E. NO. _____ EXP. DATE: _____
PREPARED UNDER THE SUPERVISION OF:
_____ 8/19/23
TERRY WATKINS DATE
C.H.G. NO. 1038 EXP. DATE: 3/3/24

Yuima Municipal Water District

YUIMA MUNICIPAL WATER DISTRICT

RESULTS OF DRILLING AND CONSTRUCTION
UPPER SAN LUIS REY MW-1D & MW-1S

AS-BUILT WELL PROFILE AND CONSTRUCTION DETAILS

FIGURE NO.
2

GEOSCIENCE
The First Name in Groundwater

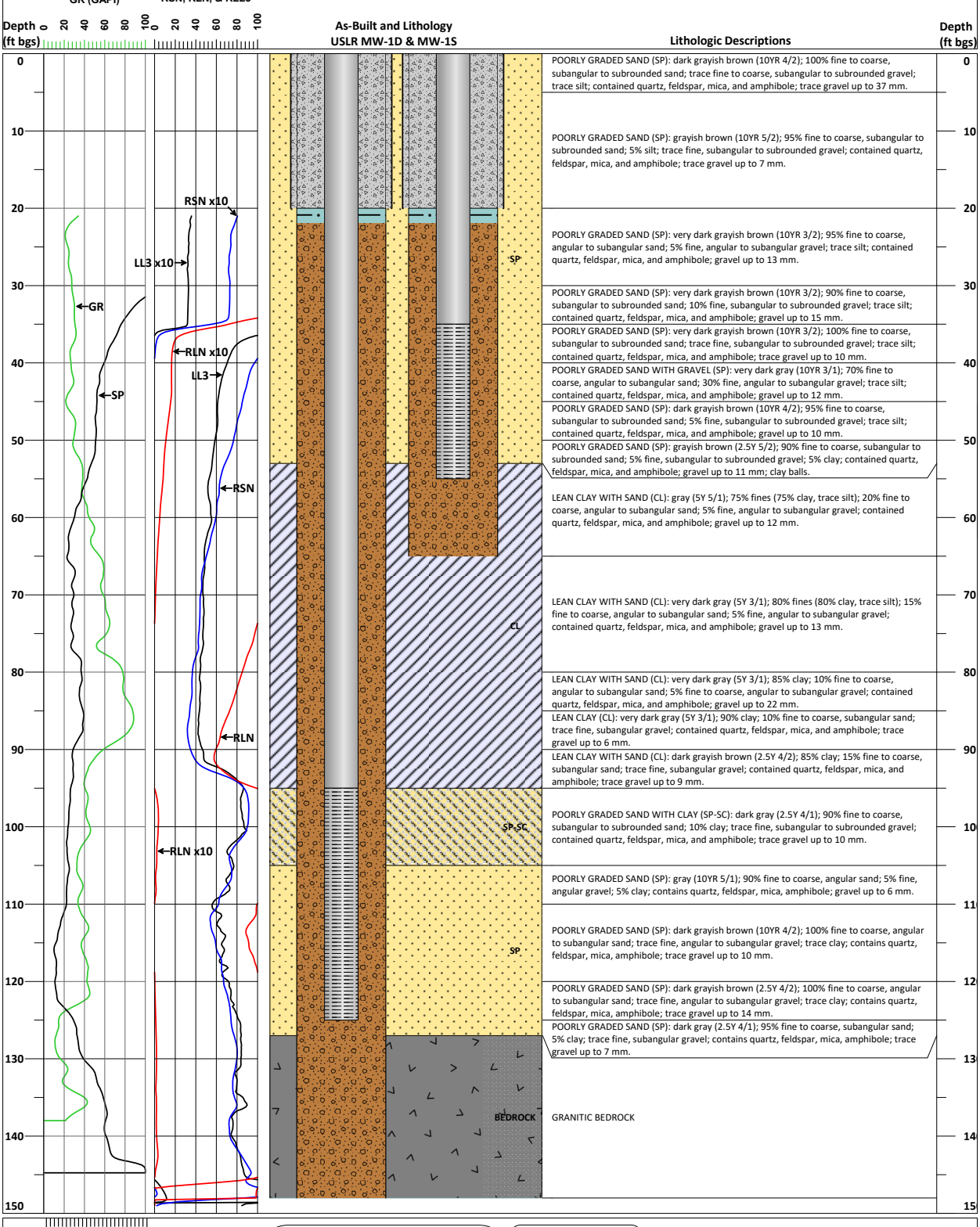
Geohydrologic Borehole Data and Well Construction Log
USLR MW-1D and MW-1S

Figure 3

WELL NUMBER: USLR MW-1D and MW-1S | **CLIENT:** YMWD | **Report Date:** August 2023

LOCATION: ~2400' West of HWY 76 and Dirt Road North of Pala Rd.
DRILLING CONTRACTOR: Stehly Brothers Inc.
DRILLING RIG TYPE AND METHOD: Direct Mud Rotary
DRILLER: Joe Edwards
LOGGED BY: A. Arita
SAMPLING METHOD: Grab
BOREHOLE DIAMETER: 10 in
SURFACE ELEVATION: ~698 ft
DRILLING BEGIN/END DATES: 5/30/23 - 6/8/23 (D); 6/9/23 - 6/14/23 (S)

COMPLETION ID	CASING SECTION	TOP DEPTH (ft bgs)	BOTTOM DEPTH (ft bgs)	LENGTH (ft)	MATERIAL	WALL THICKNESS (in)	DIAMETER (in)	SCREEN TYPE	PERF. SIZE (in)
MW-1D	Conductor	0	20	20	Low Carbon Steel	0.25	10.75/OD		
MW-1D	Blank	+2	95	97	Sch. 80 PVC	0.337	3.826/ID		
MW-1D	Screen with End Cap	95	125	30	Sch. 80 PVC	0.337	3.826/ID	Horizontal Mill Slot	0.020
MW-1S	Conductor	0	20	20	Low Carbon Steel	0.25	10.75/OD		
MW-1S	Blank	+2	35	37	Sch. 80 PVC	0.337	3.826/ID		
MW-1S	Screen with End Cap	35	55	20	Sch. 80 PVC	0.337	3.826/ID	Horizontal Mill Slot	0.020



Aug-23

ATTACHMENT A
Geophysical Logs

GEOSCIENCE

The First Name in Groundwater

ELECTRIC LOG
GUARD RESISTIVITY LOG
GAMMA RAY LOG

VWS No. 002465

Company STEHLY BROS. DRILLING

Well Name USLR MW-1D

City PAUMA VALLEY

County SAN DIEGO State CA

Location:

14999 CA-76
.25 MILE SOUTH OF HWY 76

Sec. Twp. Rge.

Other Services:

SONIC/VDL

Permanent Datum	G.L.		Elevation N/A	Elevation
Log Measured From	G.L.	0 ft	above perm. datum	G.L.
Drilling Measured From	G.L.			D.F.
				K.B.

Date	6-5-23		
Run Number	ONE		
Total Depth Driller	148'		
Total Depth Logger	149'		
Bottom Logged Depth	148'		
Top Logged Depth	10'		
Casing Driller	10" @ 22'		
Casing Logger	22'		
Bit Size	9 7/8"		
Type Fluid in Hole	MUD		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Temp	15.5 @ 75F		
Rmf @ Temp	16.7 @ 75F		
Rmc @ Temp	N/A		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	N/A		
Time Since Circulation	1 HOUR		
Time Log Started	10:45 AM		
Max. Recorded Temperature	N/A		
Truck Number	ONE		
Location	CA		
Operator	LAPORTE		
Representative	A. ARITA		

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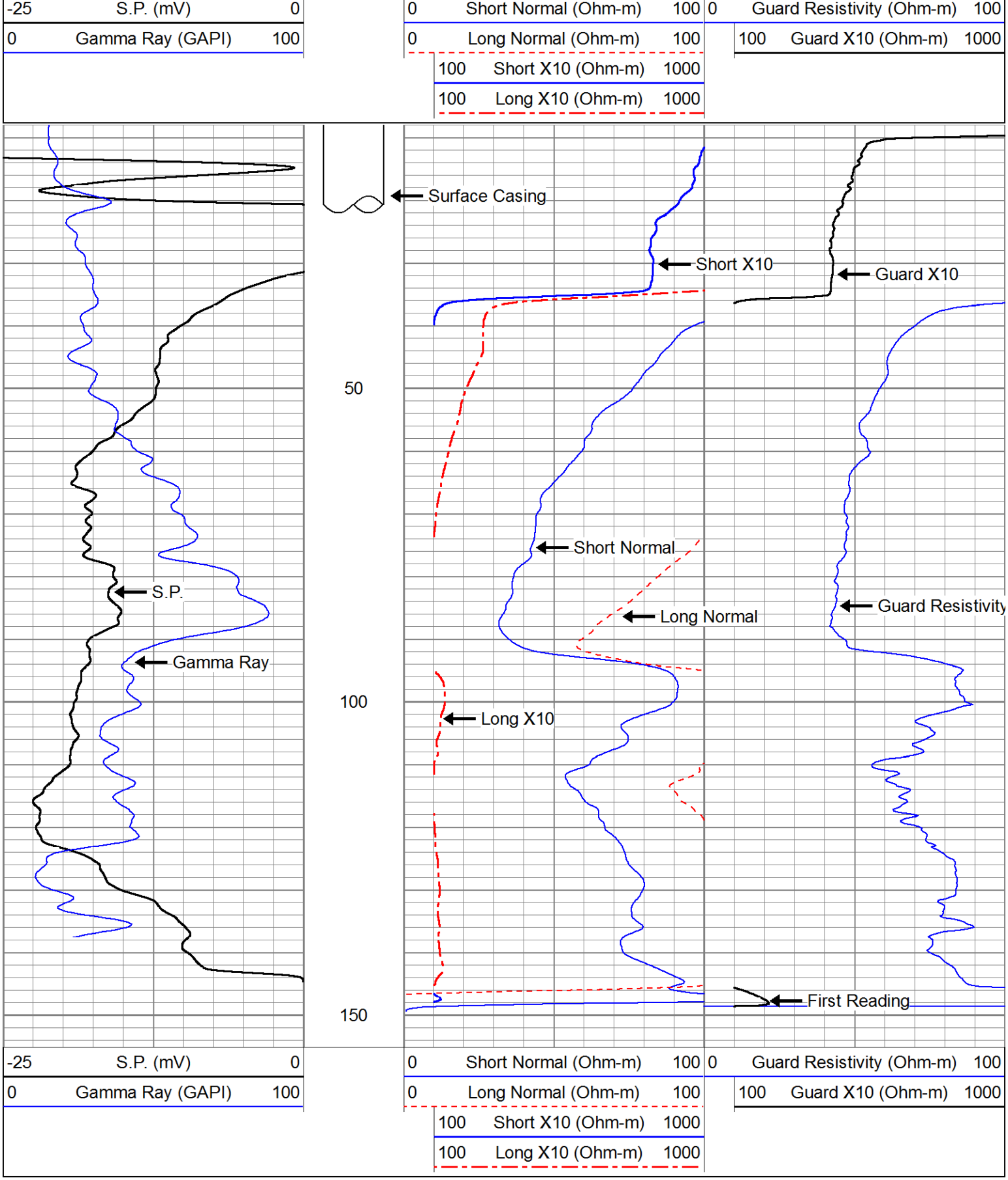
Comments

Database File 002465.db
Dataset Pathname Stehly/well/ELOG/pass1
Presentation Format elog2
Dataset Creation Mon Jun 05 10:50:12 2023
Charted by Depth in Feet scaled 1:240


-25 S.P. (mV) 0
0 Gamma Ray (GAPI) 100
0 Short Normal (Ohm-m) 100
0 Long Normal (Ohm-m) 100
100 Short X10 (Ohm-m) 1000
100 Long X10 (Ohm-m) 1000
0 Guard Resistivity (Ohm-m) 100
100 Guard X10 (Ohm-m) 1000
Surface Casing
Short X10
Guard X10
50
Short Normal
S.P.
Long Normal
Guard Resistivity
Gamma Ray
100
Long X10
First Reading
150
-25 S.P. (mV) 0
0 Gamma Ray (GAPI) 100
0 Short Normal (Ohm-m) 100
0 Long Normal (Ohm-m) 100
100 Short X10 (Ohm-m) 1000
100 Long X10 (Ohm-m) 1000
0 Guard Resistivity (Ohm-m) 100
100 Guard X10 (Ohm-m) 1000

VICTORY WELL SURVEYS

SONIC VELOCITY
VARIABLE DENSITY
SONIC POROSITY

VWS No. 002465

Company STEHLY BROS. DRILLING
Well Name USLR MW-1D
City PAUMA VALLEY
County SAN DIEGO State CA

Location:

14999 CA-76
.25 MILE SOUTH OF HWY 76

Sec. Twp. Rge.

Other Services:

E-LOG
GUARD

Permanent Datum	G.L.	Elevation N/A	Elevation
Log Measured From	G.L.	0 ft above perm. datum	G.L.
Drilling Measured From	G.L.		D.F.
			K.B.

Date	6-5-23		
Run Number	ONE		
Total Depth Driller	148'		
Total Depth Logger	149'		
Bottom Logged Depth	146'		
Top Logged Depth	10'		
Casing Driller	10" @ 22'		
Casing Logger	22'		
Bit Size	9 7/8"		
Type Fluid in Hole	MUD		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Temp	15.5 @ 75F		
Rmf @ Temp	16.7 @ 75F		
Rmc @ Temp	N/A		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	N/A		
Time Since Circulation	1 HOUR		
Time Log Started	10:45 AM		
Max. Recorded Temperature	N/A		
Truck Number	ONE		
Location	CA		
Operator	LAPORTE		
Representative	A. ARITA		

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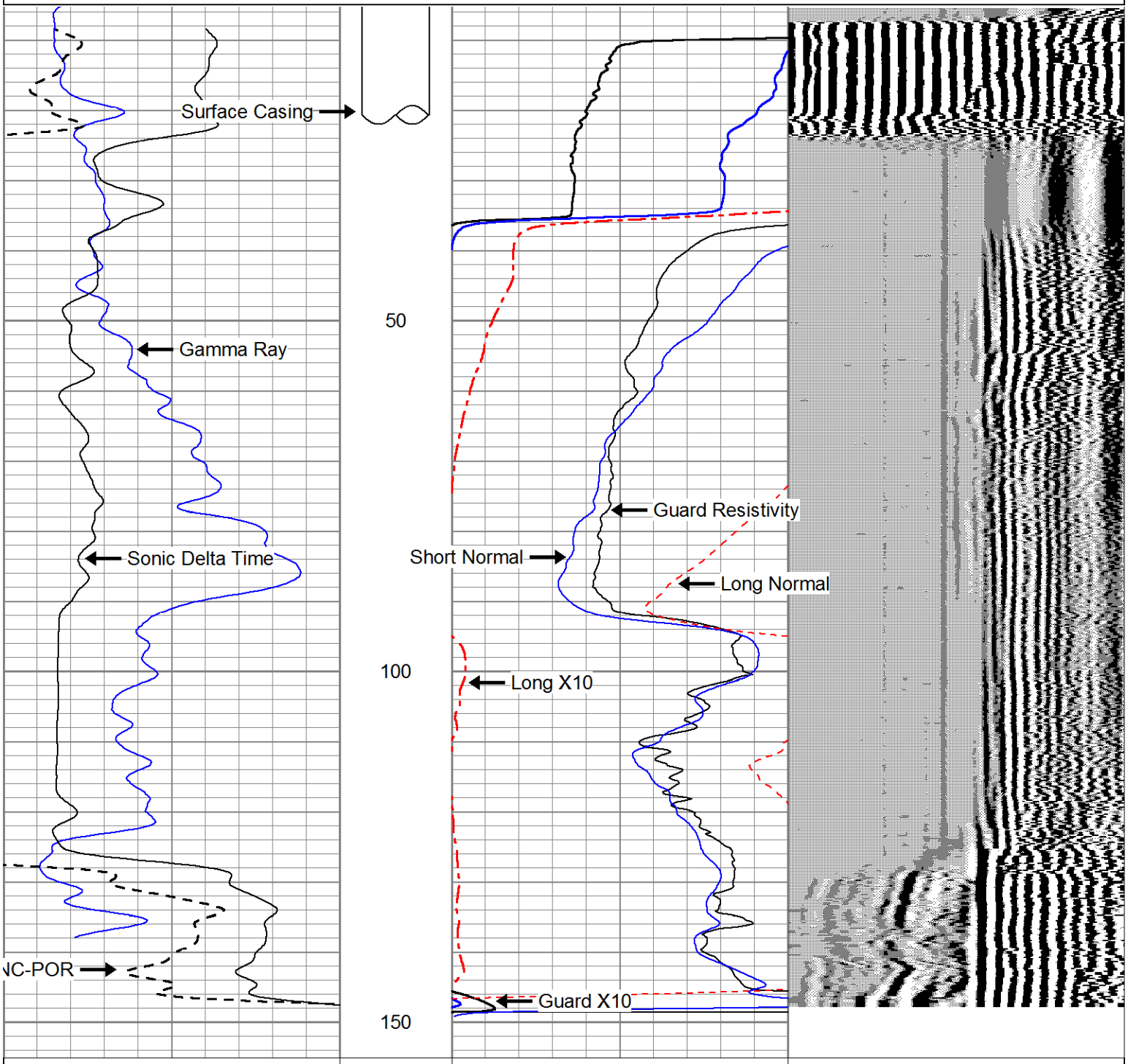
Comments

Database File 002465.db
Dataset Pathname Stehly/well/SNC/pass2
Presentation Format sonic_el
Dataset Creation Mon Jun 05 11:12:21 2023
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	100
240	Sonic Velocity (usec/ft)	40
60	SPOR (pu)	0

0	GRD (Ohm-m)	100
100	GRD (Ohm-m)	1000
100	Short X10 (Ohm-m)	1000
100	Long X10 (Ohm-m)	1000
0	Short Normal (Ohm-m)	100
0	Long Normal (Ohm-m)	100

500	Variable Density Log	1500



0	Gamma Ray (GAPI)	100
240	Sonic Velocity (usec/ft)	40
60	SPOR (pu)	0

0	GRD (Ohm-m)	100
100	GRD (Ohm-m)	1000
100	Short X10 (Ohm-m)	1000
100	Long X10 (Ohm-m)	1000
0	Short Normal (Ohm-m)	100
0	Long Normal (Ohm-m)	100

500	Variable Density Log	1500

ATTACHMENT B
Water Quality Data

GEOSCIENCE

The First Name in Groundwater

Clinical Laboratory of San Bernardino, Inc.

Geoscience	Project: Routine	Work Order: 23G0398
P.O. 220	Sub Project: YMWD MWS	Received: 07/06/23 16:10
Claremont CA, 91711	Project Manager: Terry Watkins	Reported: 07/25/23

MW - 1D **23G0398-01 (Water)** **Sample Date:** 07/06/23 13:50 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Field Analyses										
Spec Conduct / E.C. (Field)	Field	**670**	uS/cm				07/06/23	07/06/23	2327059	
pH (Field)	Field	**7.13**	pH Units				07/06/23	07/06/23	2327059	
Temperature (Field)	Field	**20.4**	°C				07/06/23	07/06/23	2327059	
Turbidity (Field)	Field	**0.5**	NTU				07/06/23	07/06/23	2327059	
General Physical Analyses										
Apparent Color	SM 2120BM	ND	Color Units	3.0		15	07/06/23	07/06/23	2328044	
Odor Threshold	EPA 140.1-M	**1**	TON	1		3	07/06/23	07/06/23	2328044	
Turbidity	EPA 180.1	**0.16**	NTU	0.10	0.020	5	07/06/23	07/06/23	2328044	
General Chemical Analyses										
Alkalinity, Total (as CaCO3)	SM 2320 B	**86**	mg/L	5.0	2.3		07/12/23	07/13/23	2327125	
Bicarbonate (HCO3)	SM 2320 B	**100**	mg/L	5.0			07/12/23	07/13/23	2327125	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0			07/12/23	07/13/23	2327125	
Chloride (Cl)	EPA 300.0	**48**	mg/L	1.0	0.075	500	07/07/23	07/07/23	2327151	
Langelier Index at Source Tmp	SM 203	**-0.35**			-50.00		07/12/23	07/13/23	2327125	
Langelier Index at 60 C	SM 203	**0.26**			-50.00		07/12/23	07/13/23	2327125	
Aggressive Index	SM 203	**11.48**					07/12/23	07/13/23	2327125	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	37	150	07/07/23	07/07/23	2327157	
Specific Conductance (E.C.)	SM 2510B	**660**	umhos/cm	2.0	0.20	1600	07/12/23	07/13/23	2327125	
Fluoride (F)	EPA 300.0	**0.25**	mg/L	0.10	0.026	2	07/07/23	07/07/23	2327151	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0			07/12/23	07/13/23	2327125	
MBAS (LAS Mole. Wt 340.0)	SM 5540C	ND	mg/L	0.10	0.047	0.5	07/07/23	07/07/23	2327156	
Nitrate as N (NO3-N)	EPA 300.0	**3.3**	mg/L	0.40	0.12	10	07/07/23	07/07/23	2327151	
Nitrate + Nitrite (as N)	EPA 300.0	**3.3**	mg/L	0.40	0.29	10	07/07/23	07/07/23	2327151	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	1	07/07/23	07/07/23	2327151	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	2.0	0.38	6	07/11/23	07/12/23	2328073	
pH (Lab)	SM 4500HB	**7.4**	pH Units				07/07/23	07/13/23	2327125	
Sulfate (SO4)	EPA 300.0	**160**	mg/L	0.50	0.14	500	07/07/23	07/07/23	2327151	
Sulfide (S)	SM 4500S2D	ND	mg/L	0.10	0.0043		07/12/23	07/12/23	2328066	
Sulfide, Dissolved (S)	SM 4500S2D	ND	mg/L	0.10	0.0043		07/10/23	07/12/23	2328066	HT-01
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	1000	07/13/23	07/14/23	2328133	
Total Organic Carbon	SM 5310B	**3.2**	mg/L	0.30	0.11		07/07/23	07/07/23	2327143	
Metals										
Aluminum (Al)	EPA 200.7	**39**	ug/L	50	14	200	07/12/23	07/12/23	2328079	J

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Geoscience	Project: Routine	Work Order: 23G0398
P.O. 220	Sub Project: YMWD MWS	Received: 07/06/23 16:10
Claremont CA, 91711	Project Manager: Terry Watkins	Reported: 07/25/23

MW - 1D **23G0398-01 (Water)** **Sample Date:** 07/06/23 13:50 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Metals										
Antimony (Sb)	EPA 200.8	ND	ug/L	6.0	0.14	6	07/14/23	07/14/23	2328181	
Arsenic (As)	EPA 200.8	**1.8**	ug/L	2.0	0.40	10	07/14/23	07/14/23	2328181	J
Barium (Ba)	EPA 200.7	**28**	ug/L	100	12	1000	07/12/23	07/12/23	2328079	J
Beryllium (Be)	EPA 200.8	ND	ug/L	1.0	0.20	4	07/14/23	07/14/23	2328181	
Boron (B)	EPA 200.7	**63**	ug/L	100	32		07/12/23	07/12/23	2328079	J
Cadmium (Cd)	EPA 200.8	**0.17**	ug/L	1.0	0.11	5	07/14/23	07/14/23	2328181	J
Calcium (Ca)	EPA 200.7	**59**	mg/L	1.0	0.080		07/11/23	07/11/23	2328056	
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	0.14		07/06/23	07/13/23	2328138	
Chromium (Total Cr)	EPA 200.8	**4.1**	ug/L	10	0.21	50	07/14/23	07/14/23	2328181	J
Copper (Cu)	EPA 200.7	**7.7**	ug/L	50	6.5	1000	07/12/23	07/12/23	2328079	J
Iron (Fe)	EPA 200.7	**23**	ug/L	100	14	300	07/12/23	07/12/23	2328079	J
Lead (Pb)	EPA 200.8	ND	ug/L	5.0	0.51		07/14/23	07/14/23	2328181	
Magnesium (Mg)	EPA 200.7	**20**	mg/L	1.0	0.51		07/11/23	07/11/23	2328056	
Manganese (Mn)	EPA 200.7	**20**	ug/L	20	0.80	50	07/12/23	07/12/23	2328079	
Mercury (Hg)	EPA 200.8	ND	ug/L	1.0	0.10	2	07/19/23	07/19/23	2329128	
Nickel (Ni)	EPA 200.8	**1.2**	ug/L	10	0.52	100	07/14/23	07/14/23	2328181	J
Potassium (K)	EPA 200.7	**3.9**	mg/L	1.0	0.18		07/11/23	07/11/23	2328056	
Selenium (Se)	EPA 200.8	**18**	ug/L	5.0	0.95	50	07/14/23	07/14/23	2328181	
Silica (SiO2)	EPA 200.7	**34**	mg/L	0.50	0.018		07/13/23	07/13/23	2328156	
Silver (Ag)	EPA 200.8	ND	ug/L	10	0.30	100	07/14/23	07/14/23	2328181	
Sodium (Na)	EPA 200.7	**53**	mg/L	1.0	0.21		07/11/23	07/11/23	2328056	
Thallium (Tl)	EPA 200.8	**0.28**	ug/L	1.0	0.18	2	07/14/23	07/14/23	2328181	J
Vanadium (V)	EPA 200.8	**5.8**	ug/L	3.0	0.25		07/14/23	07/14/23	2328181	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	15	5000	07/12/23	07/12/23	2328079	
Calculated Analysis										
Hardness, Total (as CaCO3)	Calculated	**230**	mg/L	6.6			07/11/23	07/11/23	[CALC]	
Total Anions	Calculated	**6.33**	meq/L				07/11/23	07/13/23	[CALC]	
Total Cations	Calculated	**7**	meq/L				07/11/23	07/11/23	[CALC]	
% difference	Calculated	**10**					07/11/23	07/13/23	[CALC]	
Radiochemistry Analyses										
Gross Alpha	SM 7110C	ND	pCi/L	3.0	1.3	15	07/21/23	07/25/23	2329141	
Gross Alpha Counting Error	SM 7110C	**0.40**	pCi/L				07/21/23	07/25/23	2329141	
Gross Alpha Min Det Activity	SM 7110C	**0.38**	pCi/L				07/21/23	07/25/23	2329141	
Uranium	EPA 200.8	**0.72**	pCi/L	1.0	0.038	20	07/17/23	07/17/23	2329011	J

Stu Styles
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Geoscience	Project: Routine	Work Order: 23G0398
P.O. 220	Sub Project: YMWD MWS	Received: 07/06/23 16:10
Claremont CA, 91711	Project Manager: Terry Watkins	Reported: 07/25/23

MW - 1D **23G0398-01 (Water)** **Sample Date:** 07/06/23 13:50 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses										
Vinyl Chloride (VC)	EPA 524.2	ND	ug/L	0.50	0.22	0.5	07/11/23	07/12/23	2328049	
Trichlorofluoromethane (FREON 11)	EPA 524.2	ND	ug/L	5.0	1.5	150	07/11/23	07/12/23	2328049	
1,1-Dichloroethylene (1,1-DCE)	EPA 524.2	ND	ug/L	0.50	0.18	6	07/11/23	07/12/23	2328049	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	ug/L	10	0.20	1200	07/11/23	07/12/23	2328049	
Dichloromethane (Methylene Chloride)	EPA 524.2	ND	ug/L	0.50	0.29	5	07/11/23	07/12/23	2328049	
trans-1,2-Dichloroethylene (t-1,2-DCE)	EPA 524.2	ND	ug/L	0.50	0.23	10	07/11/23	07/12/23	2328049	
Methyl tert-Butyl Ether	EPA 524.2	ND	ug/L	3.0	0.26	13	07/11/23	07/12/23	2328049	
1,1-Dichloroethane (1,1-DCA)	EPA 524.2	ND	ug/L	0.50	0.25	5	07/11/23	07/12/23	2328049	
cis-1,2-Dichloroethylene (c-1,2-DCE)	EPA 524.2	ND	ug/L	0.50	0.21	6	07/11/23	07/12/23	2328049	
Chloroform (Trichloromethane)	EPA 524.2	ND	ug/L	1.0	0.57		07/11/23	07/12/23	2328049	
Carbon Tetrachloride	EPA 524.2	ND	ug/L	0.50	0.17	0.5	07/11/23	07/12/23	2328049	
1,1,1-Trichloroethane (1,1,1-TCA)	EPA 524.2	ND	ug/L	0.50	0.21	200	07/11/23	07/12/23	2328049	
Benzene	EPA 524.2	ND	ug/L	0.50	0.25	1	07/11/23	07/12/23	2328049	
1,2-Dichloroethane (1,2-DCA)	EPA 524.2	ND	ug/L	0.50	0.17	0.5	07/11/23	07/12/23	2328049	
Trichloroethylene (TCE)	EPA 524.2	ND	ug/L	0.50	0.24	5	07/11/23	07/12/23	2328049	
1,2-Dichloropropane	EPA 524.2	ND	ug/L	0.50	0.24	5	07/11/23	07/12/23	2328049	
Bromodichloromethane	EPA 524.2	ND	ug/L	1.0	0.44		07/11/23	07/12/23	2328049	
Toluene	EPA 524.2	ND	ug/L	0.50	0.29	150	07/11/23	07/12/23	2328049	
Tetrachloroethylene (PCE)	EPA 524.2	ND	ug/L	0.50	0.16	5	07/11/23	07/12/23	2328049	
1,1,2-Trichloroethane (1,1,2-TCA)	EPA 524.2	ND	ug/L	0.50	0.35	5	07/11/23	07/12/23	2328049	
Dibromochloromethane	EPA 524.2	ND	ug/L	1.0	0.36		07/11/23	07/12/23	2328049	
Monochlorobenzene (Chlorobenzene)	EPA 524.2	ND	ug/L	0.50	0.27	70	07/11/23	07/12/23	2328049	
Ethyl Benzene	EPA 524.2	ND	ug/L	0.50	0.22	300	07/11/23	07/12/23	2328049	
cis-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.16		07/11/23	07/12/23	2328049	
m,p-Xylene	EPA 524.2	ND	ug/L	1.0	0.44		07/11/23	07/12/23	2328049	
o-Xylene	EPA 524.2	ND	ug/L	0.50	0.22		07/11/23	07/12/23	2328049	
trans-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.22		07/11/23	07/12/23	2328049	
Styrene	EPA 524.2	ND	ug/L	0.50	0.20	100	07/11/23	07/12/23	2328049	
Bromoform	EPA 524.2	ND	ug/L	1.0	0.18		07/11/23	07/12/23	2328049	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	ug/L	0.50	0.14		07/11/23	07/12/23	2328049	
1,4-Dichlorobenzene (p-DCB)	EPA 524.2	ND	ug/L	0.50	0.19	5	07/11/23	07/12/23	2328049	
1,2-Dichlorobenzene (o-DCB)	EPA 524.2	ND	ug/L	0.50	0.15	600	07/11/23	07/12/23	2328049	

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Geoscience
P.O. 220
Claremont CA, 91711

Project: Routine
Sub Project: YMWD MWS
Project Manager: Terry Watkins

Work Order: 23G0398
Received: 07/06/23 16:10
Reported: 07/25/23

MW - 1D **23G0398-01 (Water)** **Sample Date:** 07/06/23 13:50 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses										
1,2,4-Trichlorobenzene	EPA 524.2	ND	ug/L	0.50	0.18	5	07/11/23	07/12/23	2328049	
Total 1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.22	0.5	07/11/23	07/12/23	2328049	
Total Trihalomethanes (TTHM)	EPA 524.2	ND	ug/L	1.0	0.57	80	07/11/23	07/12/23	2328049	
Total Xylenes (m,p & o)	EPA 524.2	ND	ug/L	0.50	0.44	1750	07/11/23	07/12/23	2328049	
Surrogate: 1,2-Dichlorobenzene-d4	*EPA 524.2*	*98 %*					*07/11/23*	*07/12/23*	*2328049*	
Surrogate: Bromofluorobenzene	*EPA 524.2*	*88 %*					*07/11/23*	*07/12/23*	*2328049*	
Semi-Volatile Organic Analyses / EPA 504										
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug/L	0.020	0.0024	0.05	07/10/23	07/11/23	2328012	
Dibromochloropropane (DBCP)	EPA 504.1	ND	ug/L	0.010	0.0014	0.2	07/10/23	07/11/23	2328012	
Synthetic Organic Analyses / 1,2,3-TCP										
1,2,3-Trichloropropane	SRL 524M-TCP	ND	ug/L	0.0050	0.0012	0.005	07/08/23	07/08/23	2327149	
Synthetic Organic Analyses										
Endrin	EPA 508.1	ND	ug/L	0.10	0.0020	2	07/10/23	07/16/23	2328001	
Lindane (gamma-BHC)	EPA 508.1	ND	ug/L	0.20	0.0015	0.2	07/10/23	07/16/23	2328001	
Methoxychlor	EPA 508.1	ND	ug/L	10	0.017	30	07/10/23	07/16/23	2328001	
Toxaphene	EPA 508.1	ND	ug/L	1.0	0.20	3	07/10/23	07/16/23	2328001	
Chlordane	EPA 508.1	ND	ug/L	0.10	0.021	0.1	07/10/23	07/16/23	2328001	
Heptachlor	EPA 508.1	ND	ug/L	0.010	0.0018	0.01	07/10/23	07/16/23	2328001	
Heptachlor Epoxide	EPA 508.1	ND	ug/L	0.010	0.0024	0.01	07/10/23	07/16/23	2328001	
Hexachlorobenzene	EPA 508.1	ND	ug/L	0.50	0.0013	1	07/10/23	07/16/23	2328001	
Hexachlorocyclopentadiene	EPA 508.1	ND	ug/L	1.0	0.013	50	07/10/23	07/16/23	2328001	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	ug/L	0.50		0.5	07/10/23	07/16/23	2328001	
Surrogate: 4-4'-Dichlorobiphenyl	*EPA 508.1*	*74 %*					*07/10/23*	*07/16/23*	*2328001*	
Dalapon	EPA 515.4	ND	ug/L	10	3.0	200	07/17/23	07/21/23	2329007	
2,4,5-TP (SILVEX)	EPA 515.4	ND	ug/L	1.0	0.18	50	07/17/23	07/21/23	2329007	
Bentazon (BASAGRAN)	EPA 515.4	ND	ug/L	2.0	0.71	18	07/17/23	07/21/23	2329007	
Picloram	EPA 515.4	ND	ug/L	1.0	0.18	500	07/17/23	07/21/23	2329007	
2,4-D	EPA 515.4	ND	ug/L	10	1.3	70	07/17/23	07/21/23	2329007	
Pentachlorophenol (PCP)	EPA 515.4	ND	ug/L	0.20	0.028	1	07/17/23	07/21/23	2329007	
Dinoseb (DNBP)	EPA 515.4	ND	ug/L	2.0	0.34	7	07/17/23	07/21/23	2329007	
Surrogate: 2,4-Dichlorophenylacetic acid	*EPA 515.4*	*94 %*					*07/17/23*	*07/21/23*	*2329007*	
Alachlor (ALANEX)	EPA 525.2	ND	ug/L	1.0	0.44	2	07/12/23	07/18/23	2328117	

Stu Styles
Client Services Manager

Geoscience	Project: Routine	Work Order: 23G0398
P.O. 220	Sub Project: YMWD MWS	Received: 07/06/23 16:10
Claremont CA, 91711	Project Manager: Terry Watkins	Reported: 07/25/23

MW - 1D **23G0398-01 (Water)** **Sample Date:** 07/06/23 13:50 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Synthetic Organic Analyses										
Atrazine (AATREX)	EPA 525.2	ND	ug/L	0.50	0.15	1	07/12/23	07/18/23	2328117	
Benzo(a)pyrene	EPA 525.2	ND	ug/L	0.10	0.020	0.2	07/12/23	07/18/23	2328117	
Diethylhexylphthalate (DEHP)	EPA 525.2	ND	ug/L	3.0	1.0	4	07/12/23	07/18/23	2328117	
Di(2-ethylhexyl) adipate	EPA 525.2	ND	ug/L	5.0	2.4	400	07/12/23	07/18/23	2328117	
Molinate (ORDRAM)	EPA 525.2	ND	ug/L	2.0	0.68	20	07/12/23	07/18/23	2328117	
Simazine (PRINCEP)	EPA 525.2	ND	ug/L	1.0	0.14	4	07/12/23	07/18/23	2328117	
Thiobencarb (BOLERO)	EPA 525.2	ND	ug/L	1.0	0.25	70	07/12/23	07/18/23	2328117	
Surrogate: 1,3-dimethyl-2-nitrobenzene	*EPA 525.2*	*107 %*					*07/12/23*	*07/18/23*	*2328117*	
Surrogate: Perylene-d12	*EPA 525.2*	*104 %*					*07/12/23*	*07/18/23*	*2328117*	
Surrogate: Triphenylphosphate	*EPA 525.2*	*72 %*					*07/12/23*	*07/18/23*	*2328117*	
Oxamyl (VYDATE)	EPA 531.1	ND	ug/L	20	0.43	50	07/17/23	07/19/23	2329002	
Carbofuran (FURADAN)	EPA 531.1	ND	ug/L	5.0	0.56	18	07/17/23	07/19/23	2329002	
Glyphosate	EPA 547	ND	ug/L	25	8.6	700	07/16/23	07/18/23	2329001	
Endothall	EPA 548.1	ND	ug/L	45	0.60	100	07/12/23	07/15/23	2328048	
Diquat	EPA 549.2	ND	ug/L	4.0	0.10	20	07/13/23	07/21/23	2328134	
Subcontracted Analyses										
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA 1613B	ND	pg/L	5.0	2.5	30	07/19/23	07/20/23	2329121	CERES
Asbestos	EPA 100.2	ND	MFL	0.20		7	07/19/23	07/20/23	2329121	LT
Bromide (Br)	EPA 300.0	**0.096**	mg/L	0.010	0.0030		07/10/23	07/24/23	2328033	BSK

LT	Analysis performed at LA Testing, ELAP 2283
J	Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)
HT-01	Analysis performed outside of recommended hold time.
CERES	Analysis performed by Ceres Analytical Laboratory, Inc. ELAP # 3046
BSK	Analysis performed at BSK Associates - Fresno ELAP # 1180
	pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.
ND	Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

LA Testing
520 Mission Street South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: 322317282
Customer ID: 32CLIN51
Customer PO:
Project ID:

Attn: Stu Styles
Clinical Laboratory of San Bernardino
PO BOX 329
San Bernardino, CA 92402

Phone: (909) 825-7693
Fax:
Received: 07/07/2023
Analyzed: 07/16/2023

Proj: 23G0398

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
MW - 1D / 23G0398-01 322317282-0001	7/7/2023 01:00 PM	30	1288	0.2227	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*07/06/2023 13:50 PM*								

Analyst(s)
Sherrie Ahmad (1)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Any questions please contact Jerry Drapala.

Initial report from: 07/20/2023 07:47:14

OrderID: 322317282

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

23G0398 **#322317282**

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

LA Testing
520 Mission Street
South Pasadena, CA 91030
Phone :(323) 254-9960
Fax: (323) 254-9982

Please email results to Project Manager: Stu Styles
[ ] navarro@clinical-lab.com [X] styles@clinical-lab.com [ ] jhernandez@clinical-lab.com [ ] durand@clinical-lab.com

CLIP transfer those samples with PS codes provided [ ] Yes [X] No
Water Trax Upload Client: _____ [ ] Yes [X] No
GeoTracker Upload Client: _____ [ ] Yes [X] No
MDL's / J Flags [ ] Yes [X] No

Turn Around Time [X] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: MW - 1D / 23G0398-01 Water	**Sampled: 07/06/23 13:50 PS Code: WTX ID:**
Asbestos in Drinking Water EPA 100.2	

Containers Supplied:

1 Quart Plastic (Q)

Released By	Date / Time	Received By	Date / Time
	7/7/23		7-7 0815
Released By	Date / Time	Received By	Date / Time
		Makenna Fuentes (ML)	7-7-23 11:50
Released By	Date / Time	Received By	Date / Time

Samples Received on ( ) Wet Ice ( ) Blue Ice ( ) No Ice Received Temp 1.8 (F) (C)

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

July 20, 2023 Ceres ID: 16612

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313

The following report contains the results for the one drinking water sample received on July 12, 2023. This sample was analyzed for 2,3,7,8-TCDD by EPA method 1613. Routine turn-around time was provided for this work.

This work was authorized under your Subcontract Order # 23G0398.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
16612-001	MW-1D / 23G0398-01	7/12/2023	7/6/2023	13:50

Section II: Data Summary

CERES Analytical Laboratory, Inc.
4919 Windplay Dr.Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Quality Assurance Sample **Method Blank**	**QC Batch #:** 2917	**Date Received:** NA
	Matrix: Drinking Water	**Date Extracted:** 7/18/2023
Project ID: 23G0398	**Sample Size:** 1.000 L	**Date Analyzed:** 7/18/2023

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 2.46	3.12	5.00		13C-2378-TCDD	86.0	31-137	
					CRS			
					37Cl4-2378-TCDD	82.7	35-197	

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit

Analyst: JMH **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Quality Assurance Sample **Ongoing Precision and Recovery**		**Date Received:** NA
	QC Batch #: 2917	**Date Extracted:** 7/18/2023
	Matrix: Drinking Water	**Date Analyzed:** 7/18/2023
Project ID: 23G0398	**Sample Size:** 1.000 L	

Analyte	Conc. (ng/mL)	Limits (a)	Labeled Standards	% Rec.	Limits (a)
2,3,7,8-TCDD	8.60	7.3-14.6	13C-2378-TCDD	82.5	25-141
			CRS		
			37Cl4-2378-TCDD	85.2	37-158

(a) Limits based on method acceptance criteria.

Analyst: JMH **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Client Sample ID: MW-1D / 23G0398-01		
Project ID: 23G0398	**Ceres Sample ID:** 16612-001	**Date Received:** 7/12/2023
	QC Batch #: 2917	**Date Extracted:** 7/18/2023
Date Collected: 7/6/2023	**Matrix:** Drinking Water	**Date Analyzed:** 7/18/2023
Time Collected: 13:50	**Sample Size:** 1.039 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 2.33	3.12	4.81		13C-2378-TCDD	80.9	31-137	
					CRS			
					37Cl4-2378-TCDD	87.4	42-164	

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit

Analyst: JMH **Reviewed by: BS**

Section VI: Sample Tracking

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

23G0398

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Ste. 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax:

Please email results to Project Manager: Stu Styles
[ ] navarro@clinical-lab.com [X] styles@clinical-lab.com [ ] jhernandez@clinical-lab.com [ ] durand@clinical-lab.com

CLIP transfer those samples with PS codes provided [ ] Yes [X] No
Water Trax Upload Client: _____ [ ] Yes [X] No
GeoTracker Upload Client: _____ [ ] Yes [X] No
MDL's / J Flags [ ] Yes [X] No

Turn Around Time [X] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: MW - 1D / 23G0398-01 Water	**Sampled: 07/06/23 13:50 PS Code: WTX ID:**
1613 Dioxins TCDD DW Week	

Containers Supplied:

1 L Amber Glass Na Thio EPA 1613 (R) 1 L Amber Glass Na Thio EPA 1613 (S)

Released By	Date / Time	Received By	Date / Time
	7/10/23		7/10/23
	7/10/23		7/12/23 1240

Samples Received on ( ) Wet Ice ( ) Blue Ice ( ) No Ice Received Temp _____ (F / C)

Sample Receipt Check List Logged by: lk (initials)

Ceres ID: 16612	Date/Time: 7/12/23 1240
Client Project ID: 23 G0398	Received Temp: 6.0 °C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Chain of Custody Received by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present?	Y / N / NA
Residual Cl?	Y / N / NA
Aqueous sample pH: 2	NA

List COC discrepancies:

lk 7/12/23

List Damaged Samples:

lk 7/12/23

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

BSK Associates San Bernardino
350 E. Commercial Road, Suite 110
San Bernardino, CA 92408
909-796-2059 (Main)

RGG0060
7/24/2023

Stu Styles
Clinical Laboratory of San Bernardino, Inc
21881 Barton Road
Grand Terrace, CA 92313

RE: Report for RGG0060 General - Trace

Dear Stu Styles,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 7/10/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, Elaine M. Phillips , at 909-796-2059.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Elaine M. Phillips, Project Manager

Accredited in Accordance with NELAP
ORELAP #4119

Case Narrative

Project and Report Details		Invoice Details	
Client:	Clinical Laboratory of San Bernardino, Inc	**Invoice To:**	Clinical Laboratory of San Bernardino, I
Report To:	Stu Styles	**Invoice Attn:**	Stu Styles
Project #:	23G0398	**Project PO#:**	-
Received:	7/10/2023 - 12:54		
Report Due:	7/24/2023		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 5.3

Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Wet Ice
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-RAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Stu Styles	FINAL.RPT	

Certificate of Analysis

Sample ID: RGG0060-01
Sampled By: Client
Sample Description: MW-1D // 23G0398-01

Sample Date - Time: 07/06/2023 - 13:50
Matrix: Waste Water
Sample Type: Composite

Composite Start: 07/05/2023 - 13:50

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Bromide	EPA 300.0	**0.096**	0.0030	0.010	mg/L	1	AGG1035	07/17/23	07/17/23	

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control												
Batch: AGG1035											Prepared: 7/17/2023	
Prep Method: Method Specific Preparation											Analyst: CTD	
Blank (AGG1035-BLK1)												
Bromide	ND	0.0030	0.010	mg/L							07/17/23	
Blank Spike (AGG1035-BS1)												
Bromide	0.19	0.0030	0.010	mg/L	0.20		97	90-110			07/17/23	
Matrix Spike (AGG1035-MS1), Source: AGG0485-03												
Bromide	0.18	0.0030	0.010	mg/L	0.10	0.10	81	80-120			07/17/23	
Matrix Spike (AGG1035-MS2), Source: AGG1841-01												
Bromide	0.10	0.0030	0.010	mg/L	0.10	ND	101	80-120			07/17/23	
Matrix Spike Dup (AGG1035-MSD1), Source: AGG0485-03												
Bromide	0.19	0.0030	0.010	mg/L	0.10	0.10	91	80-120	5	10	07/17/23	
Matrix Spike Dup (AGG1035-MSD2), Source: AGG1841-01												
Bromide	0.10	0.0030	0.010	mg/L	0.10	ND	100	80-120	1	10	07/17/23	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.

Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certification.**

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-021
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-021
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1		

San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-007	State of Oregon - NELAP	4119-007

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-22		

BSK Associates SR-FL-0002-24

RGG0060 CLIN17693 07/10/2023

10

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes No NA Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received

"—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	-01				
Bacti $Na_2S_2O_3$	—	—					
None (P) White Cap	—	—	1A				
Cr6 (P) Lt. Green Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **DW**	Cl, pH > 8	P F					
Cr6 (P) Pink Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **WW**	pH 9.3-9.7	P F					
Cr6 (P) Black Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **7199** ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F					
HNO_3 (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—					
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	P F					
NaOH (P) Green Cap	Cl, pH >10	P F					
NaOH + ZnAc (P)	pH > 9	P F					
Dissolved Oxygen 300ml (g)	—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
HCl (AG) Lt. Blue Label O&G, Diesel, **TCP**	—	—					
Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	—	—					
Na_2SO_3 250mL (AG) Neon Green Label 515	—	—					
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—					
$Na_2S_2O_3$ (AG) Blue Label 548, THM, 524	—	—					
$Na_2S_2O_3$ (CG) Blue Label 504, 505, 547	—	—					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	P F					
NH_4Cl (AG) Purple Label 552	—	—					
EDA (P) or (AG) Brown Label DBPs	—	—					
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—					
Buffer pH 4 (CG)	—	—					
H_3PO_4 (CG) Salmon Label	—	—					
Trizma – EPA 537.1 Light Blue Label **FB**	---	---					
Ammonia Acetate - EPA 533 Purple Label **FB**	---	---					
Bottled Water	—	—					
Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—					
Clear Glass	—	—					
OTHER:	—	—					

RMW

07/11

Split

	Container	Preservative	Lot #	Initials	Date/Time
S P					
S P					

Preservation Check
pH Lot #
Cl Lot #

Comments

***Preservation check completed by lab performing analysis.**

✓ **Indicates Blanks Received**

504 ___ 524.2 ___ TTHM ___ 537/533 ___ TCP___

✓ **MS/MSD Received Method:** _____

Labeled by: **Labels Checked by:**

Scanned: _____ Rush/Short HT Page: _____ Time: _____

RGG0060 CLIN7693 07/10/2023 10

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

23G0398

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

BSK Associates
350 E. Commercial Rd., Suite 110
San Bernardino, CA 92408
Phone :(909) 796-2059
Fax:

Please email results to Project Manager: Stu Styles
[ ] navarro@clinical-lab.com [ ] styles@clinical-lab.com [ ] jhernandez@clinical-lab.com [ ] durand@clinical-lab.com

CLIP transfer those samples with PS codes provided [ ] Yes [X] No
Water Trax Upload Client: _____ [ ] Yes [X] No
GeoTracker Upload Client: _____ [ ] Yes [X] No
MDL's / J Flags [X] Yes [ ] No

Turn Around Time [ ] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: MW - 1D / 23G0398-01 **Sampled: 07/06/23 13:50 PS Code:** **Water** **WTX ID:**	
Bromide 300.0 - BSK	
Containers Supplied:	
1/2 Pint Plastic (P)	

Released By	Date / Time	Received By	Date / Time
	7/10/23		7-10 0815
	7-10 12:50		7/10 1253

Samples Received on ( ) Wet Ice ( ) Blue Ice ( ) No Ice Received Temp 5.

SAMPLE TRANSIT ORDER

RGG0060

Elaine M. Phillips

Receipt temp @ FAL: 2.9 Thermometer/ IR Gun ID: 79

SENDING LABORATORY:

BSK Associates San Bernardino
350 E. Commercial Road, Suite 110
San Bernardino, CA 92408
909-796-2059 (Main)
909-796-2174 (FAX)

Project Manager: Elaine M. Phillips
E-mail: ephillips@bskassociates.com

RECEIVING LABORATORY:

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

Turnaround (Days): Standard
QC Deliverables: I Std III IV

Client: Clinical Laboratory of San Bernardino, Inc

Sample ID	Samp Desc	Comments	Sample Date
RGG0060-01	**MW-1D**	**Client Matrix** Waste Water	**07/06/2023 13:50**

Lab Matrix: Water

Analysis:

Bromide — trace

Containers Included

RGG0060-01 A 250mL P / None

Released By	7/10/23 Date	UPS Received By	7/10/23 Date
Released By	Date	Received By	7/10/23 Date

SAMPLE TRANSIT INTEGRITY

PM: Elaine M. Phillips

RGG0060
07/10/2023
CLINI7693
10

BSK Bottles: Yes No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro< 8°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Bubbles Present VOAs (524.2/TCP/TTHM)?	Yes No NA
Was a sufficient amount of sample received?	Yes No	TB Received? (Check Method Below)	Yes No NA
Do samples have a hold time <72 hours?	Yes No	Was PM notified of discrepancies?	Yes No NA
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	PM: By/Time:	

Bottles Received

"---" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1					
Bacti $Na_2S_2O_3$	---	---						
None (P) White Cap	---	---	NA					
Cr6 (P) Lt. Green Label/Blue Cap $NH_4OH(NH_4)SO_4$ **DW**	Cl, pH> 8	P F						
Cr6 (P) Pink Label/Blue Cap $NH_4OH(NH_4)SO_4$ **WW**	pH 9.3 - 9.7	P F						
Cr6 (P) Black Label/Blue Cap $NH_4OH(NH_4)SO_4$ **7199** ***24 HOUR HOLD TIME***	pH 9.0 - 9.5	P F						
HNO_3 (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	---	---						
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	P F						
NaOH (P) Green Cap	Cl, pH> 10	P F						
NaOH + ZnAc (P)	pH > 9	P F						
Dissolved Oxygen 300ml (g)	---	---						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	---	---						
HCl (AG) Lt. Blue Label O&G, Diesel, **TCP**	---	---						
Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	---	---						
Na_2SO_3 250ml (AG) Neon Green Label 515	---	---						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	---	---						
$Na_2S_2O_3$ (AG) Blue Label 548, THM, 524	---	---						
$Na_2S_2O_3$ (CG) Blue Label 504, 505, 547	---	---						
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	P F						
NH_4Cl (AG) Purple Label 552	---	---						
EDA (AG) Brown Label DBPs	---	---						
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	---	---						
Buffer pH 4 (CG)	---	---						
H_3PO_4 (CG) Salmon Label	---	---						
250mL P / Trizma 531.1	---	---						
Other:								
Asbestos 1L (P) w/Foil / LL Metals Bottle	---	---						
Bottled Water	---	---						
Clear Glass 250ml / 500ml / 1 Liter	---	---						
Solids: Brass / Steel / Plastic Bag	---	---						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

✓ **Indicates Blanks Received**

504_____ 524.2_____ TCP_____

TTHM_____ 537_____ 8260/624_____

Labels Checked by: JD @_____ Scanned by:_____@_____ RUSH Paged by:_____@_____

0-1-26

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 23G03918

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

	GEOSCIENCE Support Services Inc.
Address:	PO Box 220
	Claremont, CA 91711
Client Contact:	Logan Wicks
Phone No.:	909.451.6650 FAX No.:
System No.:	
Project:	YMWD MWs
Sampled By:	Robert Sia
Comments:	

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	# Containers	Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	Na2S2O3	NaHSO4	MeOH	Other	Secondary Standards	Inorganic Chemicals	Chromium (VI)	524 VOC, 524M/SRL 1,2,3-TCP	SOC's 504, 508, 515, 525, 531, 547, 548, 549, 1613	Gross Alpha/ Uranium	Sulfides, Total & Dissolved	TOC	Silica	Asbestos	Bromide	Corrosivity			Comments
7/6/23	1350	MW-1D		GW		4	6	1	2	1	7	1	1		23	X	X	X	X	X	X	X	X	X	X	X	X			

Bottles:		
2 X 1 Liter Amber Glass w/$Na_2S_2O_3$		1613
4 X 40mL Amber Vials w/ HCl (524)		524
1 X 250 Liter Amber Glass w/Na2SO3 (		515
1X 1/2 Gallon Poly		SecIOC
1 X Quart Poly		Asbestos
1 X Pint Poly w/ HNO3		Metals
1 GP Bottle		GP
3 X 1 Liter Amber Glass w/HCl		508/525
1 X 250mL Amber Poly w/Na2S2O3		548
2 X 40mL Amber vials w/ Na2S2O3		504
1 X 125mL Amber Glass w/ Na2S2O3		547
1 X 250mL Amber Glass w/ Monochloroacetic Acid		531
1X 1/2 Pint w/ NaOH	CN	
1X 1/2 Gallon w/ HNO3	GA/U	
1/2 Pint Poly w/ Cr (VI) Buffer		1X250mL Amber--Sulfides, dissolved
1/2 Pint Poly	Br	1X250mL Amber w/ NaOH/ZnAcetate--Sulfide

Field Parameters:
pH: 7.13 SU
Temp: 20.4°C
Conductivity: 670 us
Turbidity: 0.50 NTU

1 X 125mL Amber w/ HCl - TOC

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By	Printed Name	Date	Time	Received By	Printed Name
Robert Sia	Robert Sia (Geoscience)	7/6/23	1610		

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

0.4°C

Clinical Laboratory of San Bernardino, Inc.

Geoscience	Project: Routine	Work Order: 23G1076
P.O. 220	Sub Project: USLR MW-1S	Received: 07/12/23 16:25
Claremont CA, 91711	Project Manager: Terry Watkins	Reported: 08/08/23

MW - 1S **23G1076-01 (Water)** **Sample Date:** 07/12/23 14:00 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Field Analyses										
Spec Conduct / E.C. (Field)	Field	**473**	uS/cm				07/12/23	07/12/23	2328155	
pH (Field)	Field	**6.7**	pH Units				07/12/23	07/12/23	2328155	
Temperature (Field)	Field	**20.8**	°C				07/12/23	07/12/23	2328155	
Turbidity (Field)	Field	**2.19**	NTU				07/12/23	07/12/23	2328155	
General Physical Analyses										
Apparent Color	SM 2120BM	ND	Color Units	3.0		15	07/12/23	07/12/23	2329158	
Odor Threshold	EPA 140.1-M	**1**	TON	1		3	07/12/23	07/12/23	2329158	
Turbidity	EPA 180.1	**0.41**	NTU	0.10	0.020	5	07/12/23	07/12/23	2329158	
General Chemical Analyses										
Alkalinity, Total (as CaCO3)	SM 2320 B	**79**	mg/L	5.0	2.3		07/20/23	07/21/23	2328140	
Bicarbonate (HCO3)	SM 2320 B	**96**	mg/L	5.0			07/20/23	07/21/23	2328140	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0			07/20/23	07/21/23	2328140	
Chloride (Cl)	EPA 300.0	**27**	mg/L	1.0	0.075	500	07/13/23	07/13/23	2328082	
Langelier Index at Source Tmp	SM 203	**-0.80**			-50.00		07/20/23	07/21/23	2328140	
Langelier Index at 60 C	SM 203	**-0.19**			-50.00		07/20/23	07/21/23	2328140	
Aggressive Index	SM 203	**11.02**					07/20/23	07/21/23	2328140	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	37	150	07/18/23	07/18/23	2329086	
Specific Conductance (E.C.)	SM 2510B	**480**	umhos/cm	2.0	0.20	1600	07/20/23	07/21/23	2328140	
Fluoride (F)	EPA 300.0	**0.34**	mg/L	0.10	0.026	2	07/13/23	07/13/23	2328082	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0			07/20/23	07/21/23	2328140	
MBAS (LAS Mole. Wt 340.0)	SM 5540C	**0.053**	mg/L	0.10	0.047	0.5	07/13/23	07/13/23	2328147	J
Nitrate as N (NO3-N)	EPA 300.0	**1.7**	mg/L	0.40	0.12	10	07/13/23	07/13/23	2328082	
Nitrate + Nitrite (as N)	EPA 300.0	**1.7**	mg/L	0.40	0.29	10	07/13/23	07/13/23	2328082	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	1	07/13/23	07/13/23	2328082	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	2.0	0.38	6	07/24/23	07/25/23	2330041	
pH (Lab)	SM 4500HB	**7.2**	pH Units				07/13/23	07/21/23	2328140	
Sulfate (SO4)	EPA 300.0	**100**	mg/L	0.50	0.14	500	07/13/23	07/13/23	2328082	
Sulfide (S)	SM 4500S2D	ND	mg/L	0.10	0.0043		07/19/23	07/19/23	2328170	
Sulfide, Dissolved (S)	SM 4500S2D	**0.0050**	mg/L	0.10	0.0043		07/13/23	07/19/23	2328170	J
Total Filterable Residue/TDS	SM 2540C	**320**	mg/L	5.0	3.1	1000	07/19/23	07/20/23	2329117	
Total Organic Carbon	SM 5310B	**4.0**	mg/L	0.30	0.11		07/13/23	07/13/23	2328131	
Metals										
Aluminum (Al)	EPA 200.7	**50**	ug/L	50	14	200	07/20/23	07/20/23	2329187	
Antimony (Sb)	EPA 200.8	**0.61**	ug/L	6.0	0.14	6	07/26/23	07/26/23	2330101	J

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Geoscience	Project: Routine	Work Order: 23G1076
P.O. 220	Sub Project: USLR MW-1S	Received: 07/12/23 16:25
Claremont CA, 91711	Project Manager: Terry Watkins	Reported: 08/08/23

MW - 1S **23G1076-01 (Water)** **Sample Date:** 07/12/23 14:00 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Metals										
Arsenic (As)	EPA 200.8	ND	ug/L	2.0	0.40	10	07/26/23	07/26/23	2330101	
Barium (Ba)	EPA 200.7	**19**	ug/L	100	12	1000	07/20/23	07/20/23	2329187	J
Beryllium (Be)	EPA 200.8	ND	ug/L	1.0	0.20	4	07/26/23	07/26/23	2330101	
Boron (B)	EPA 200.7	**71**	ug/L	100	32		07/20/23	07/20/23	2329187	J
Cadmium (Cd)	EPA 200.8	ND	ug/L	1.0	0.11	5	07/26/23	07/26/23	2330101	
Calcium (Ca)	EPA 200.7	**35**	mg/L	1.0	0.080		07/21/23	07/21/23	2329224	
Chromium (+6)	EPA 218.6	**0.15**	ug/L	1.0	0.14		07/12/23	07/25/23	2330076	J
Chromium (Total Cr)	EPA 200.8	**1.2**	ug/L	10	0.21	50	07/26/23	07/26/23	2330101	J
Copper (Cu)	EPA 200.7	ND	ug/L	50	6.5	1000	07/20/23	07/20/23	2329187	
Iron (Fe)	EPA 200.7	**27**	ug/L	100	14	300	07/20/23	07/20/23	2329187	J
Lead (Pb)	EPA 200.8	ND	ug/L	5.0	0.51		07/26/23	07/26/23	2330101	
Magnesium (Mg)	EPA 200.7	**13**	mg/L	1.0	0.51		07/21/23	07/21/23	2329224	
Manganese (Mn)	EPA 200.7	**5.1**	ug/L	20	0.80	50	07/20/23	07/20/23	2329187	J
Mercury (Hg)	EPA 200.8	ND	ug/L	1.0	0.10	2	07/19/23	07/19/23	2329128	
Nickel (Ni)	EPA 200.8	ND	ug/L	10	0.52	100	07/26/23	07/26/23	2330101	
Potassium (K)	EPA 200.7	**2.8**	mg/L	1.0	0.18		07/21/23	07/21/23	2329224	
Selenium (Se)	EPA 200.8	**11**	ug/L	5.0	0.95	50	07/26/23	07/26/23	2330101	
Silica (SiO2)	EPA 200.7	**39**	mg/L	0.50	0.018		07/21/23	07/21/23	2329223	
Silver (Ag)	EPA 200.8	ND	ug/L	10	0.30	100	07/26/23	07/26/23	2330101	
Sodium (Na)	EPA 200.7	**44**	mg/L	1.0	0.21		07/21/23	07/21/23	2329224	
Thallium (Tl)	EPA 200.8	ND	ug/L	1.0	0.18	2	07/26/23	07/26/23	2330101	
Vanadium (V)	EPA 200.8	**4.1**	ug/L	3.0	0.25		07/26/23	07/26/23	2330101	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	15	5000	07/20/23	07/20/23	2329187	
Calculated Analysis										
Hardness, Total (as CaCO3)	Calculated	**140**	mg/L	6.6			07/21/23	07/21/23	[CALC]	
Total Anions	Calculated	**4.43**	meq/L				07/21/23	07/21/23	[CALC]	
Total Cations	Calculated	**4.81**	meq/L				07/21/23	07/21/23	[CALC]	
% difference	Calculated	**8.1**					07/21/23	07/21/23	[CALC]	
Radiochemistry Analyses										
Gross Alpha	SM 7110C	ND	pCi/L	3.0	1.3	15	07/28/23	08/03/23	2330178	
Gross Alpha Counting Error	SM 7110C	**0.45**	pCi/L				07/28/23	08/03/23	2330178	
Gross Alpha Min Det Activity	SM 7110C	**0.47**	pCi/L				07/28/23	08/03/23	2330178	
Uranium	EPA 200.8	**0.46**	pCi/L	1.0	0.038	20	07/25/23	07/25/23	2330065	J

Stu Styles
Client Services Manager

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Geoscience	Project: Routine	Work Order: 23G1076
P.O. 220	Sub Project: USLR MW-1S	Received: 07/12/23 16:25
Claremont CA, 91711	Project Manager: Terry Watkins	Reported: 08/08/23

MW - 1S **23G1076-01 (Water)** **Sample Date:** 07/12/23 14:00 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses										
Vinyl Chloride (VC)	EPA 524.2	ND	ug/L	0.50	0.22	0.5	07/22/23	07/22/23	2329243	
Trichlorofluoromethane (FREON 11)	EPA 524.2	ND	ug/L	5.0	1.5	150	07/22/23	07/22/23	2329243	
1,1-Dichloroethylene (1,1-DCE)	EPA 524.2	ND	ug/L	0.50	0.18	6	07/22/23	07/22/23	2329243	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	ug/L	10	0.20	1200	07/22/23	07/22/23	2329243	
Dichloromethane (Methylene Chloride)	EPA 524.2	ND	ug/L	0.50	0.29	5	07/22/23	07/22/23	2329243	
trans-1,2-Dichloroethylene (t-1,2-DCE)	EPA 524.2	ND	ug/L	0.50	0.23	10	07/22/23	07/22/23	2329243	
Methyl tert-Butyl Ether	EPA 524.2	ND	ug/L	3.0	0.26	13	07/22/23	07/22/23	2329243	
1,1-Dichloroethane (1,1-DCA)	EPA 524.2	ND	ug/L	0.50	0.25	5	07/22/23	07/22/23	2329243	
cis-1,2-Dichloroethylene (c-1,2-DCE)	EPA 524.2	ND	ug/L	0.50	0.21	6	07/22/23	07/22/23	2329243	
Chloroform (Trichloromethane)	EPA 524.2	ND	ug/L	1.0	0.57		07/22/23	07/22/23	2329243	
Carbon Tetrachloride	EPA 524.2	ND	ug/L	0.50	0.17	0.5	07/22/23	07/22/23	2329243	
1,1,1-Trichloroethane (1,1,1-TCA)	EPA 524.2	ND	ug/L	0.50	0.21	200	07/22/23	07/22/23	2329243	
Benzene	EPA 524.2	ND	ug/L	0.50	0.25	1	07/22/23	07/22/23	2329243	
1,2-Dichloroethane (1,2-DCA)	EPA 524.2	ND	ug/L	0.50	0.17	0.5	07/22/23	07/22/23	2329243	
Trichloroethylene (TCE)	EPA 524.2	ND	ug/L	0.50	0.24	5	07/22/23	07/22/23	2329243	
1,2-Dichloropropane	EPA 524.2	ND	ug/L	0.50	0.24	5	07/22/23	07/22/23	2329243	
Bromodichloromethane	EPA 524.2	ND	ug/L	1.0	0.44		07/22/23	07/22/23	2329243	
Toluene	EPA 524.2	ND	ug/L	0.50	0.29	150	07/22/23	07/22/23	2329243	
Tetrachloroethylene (PCE)	EPA 524.2	ND	ug/L	0.50	0.16	5	07/22/23	07/22/23	2329243	
1,1,2-Trichloroethane (1,1,2-TCA)	EPA 524.2	ND	ug/L	0.50	0.35	5	07/22/23	07/22/23	2329243	
Dibromochloromethane	EPA 524.2	ND	ug/L	1.0	0.36		07/22/23	07/22/23	2329243	
Monochlorobenzene (Chlorobenzene)	EPA 524.2	ND	ug/L	0.50	0.27	70	07/22/23	07/22/23	2329243	
Ethyl Benzene	EPA 524.2	ND	ug/L	0.50	0.22	300	07/22/23	07/22/23	2329243	
cis-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.16		07/22/23	07/22/23	2329243	
m,p-Xylene	EPA 524.2	ND	ug/L	1.0	0.44		07/22/23	07/22/23	2329243	
o-Xylene	EPA 524.2	ND	ug/L	0.50	0.22		07/22/23	07/22/23	2329243	
trans-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.22		07/22/23	07/22/23	2329243	
Styrene	EPA 524.2	ND	ug/L	0.50	0.20	100	07/22/23	07/22/23	2329243	
Bromoform	EPA 524.2	ND	ug/L	1.0	0.18		07/22/23	07/22/23	2329243	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	ug/L	0.50	0.14		07/22/23	07/22/23	2329243	
1,4-Dichlorobenzene (p-DCB)	EPA 524.2	ND	ug/L	0.50	0.19	5	07/22/23	07/22/23	2329243	
1,2-Dichlorobenzene (o-DCB)	EPA 524.2	ND	ug/L	0.50	0.15	600	07/22/23	07/22/23	2329243	

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Client Services Manager

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Geoscience	Project: Routine	Work Order: 23G1076
P.O. 220	Sub Project: USLR MW-1S	Received: 07/12/23 16:25
Claremont CA, 91711	Project Manager: Terry Watkins	Reported: 08/08/23

MW - 1S **23G1076-01 (Water)** **Sample Date:** 07/12/23 14:00 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses										
1,2,4-Trichlorobenzene	EPA 524.2	ND	ug/L	0.50	0.18	5	07/22/23	07/22/23	2329243	
Total 1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.22	0.5	07/22/23	07/22/23	2329243	
Total Trihalomethanes (TTHM)	EPA 524.2	ND	ug/L	1.0	0.57	80	07/22/23	07/22/23	2329243	
Total Xylenes (m,p & o)	EPA 524.2	ND	ug/L	0.50	0.44	1750	07/22/23	07/22/23	2329243	
Surrogate: 1,2-Dichlorobenzene-d4	*EPA 524.2*	*90 %*					*07/22/23*	*07/22/23*	*2329243*	
Surrogate: Bromofluorobenzene	*EPA 524.2*	*82 %*					*07/22/23*	*07/22/23*	*2329243*	
Semi-Volatile Organic Analyses / EPA 504										
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug/L	0.020	0.0024	0.05	07/20/23	07/21/23	2329168	
Dibromochloropropane (DBCP)	EPA 504.1	ND	ug/L	0.010	0.0014	0.2	07/20/23	07/21/23	2329168	
Synthetic Organic Analyses / 1,2,3-TCP										
1,2,3-Trichloropropane	SRL 524M-TCP	ND	ug/L	0.0050	0.0012	0.005	07/20/23	07/21/23	2329129	
Synthetic Organic Analyses										
Endrin	EPA 508.1	ND	ug/L	0.10	0.0020	2	07/24/23	08/02/23	2330025	
Lindane (gamma-BHC)	EPA 508.1	ND	ug/L	0.20	0.0015	0.2	07/24/23	08/02/23	2330025	
Methoxychlor	EPA 508.1	ND	ug/L	10	0.017	30	07/24/23	08/02/23	2330025	
Toxaphene	EPA 508.1	ND	ug/L	1.0	0.20	3	07/24/23	08/02/23	2330025	
Chlordane	EPA 508.1	ND	ug/L	0.10	0.021	0.1	07/24/23	08/02/23	2330025	
Heptachlor	EPA 508.1	ND	ug/L	0.010	0.0018	0.01	07/24/23	08/02/23	2330025	
Heptachlor Epoxide	EPA 508.1	ND	ug/L	0.010	0.0024	0.01	07/24/23	08/02/23	2330025	
Hexachlorobenzene	EPA 508.1	ND	ug/L	0.50	0.0013	1	07/24/23	08/02/23	2330025	
Hexachlorocyclopentadiene	EPA 508.1	ND	ug/L	1.0	0.013	50	07/24/23	08/02/23	2330025	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	ug/L	0.50		0.5	07/24/23	08/02/23	2330025	
Surrogate: 4-4'-Dichlorobiphenyl	*EPA 508.1*	*119 %*					*07/24/23*	*08/02/23*	*2330025*	
Dalapon	EPA 515.4	ND	ug/L	10	3.0	200	07/17/23	07/21/23	2329007	
2,4,5-TP (SILVEX)	EPA 515.4	ND	ug/L	1.0	0.18	50	07/17/23	07/21/23	2329007	
Bentazon (BASAGRAN)	EPA 515.4	ND	ug/L	2.0	0.71	18	07/17/23	07/21/23	2329007	
Picloram	EPA 515.4	ND	ug/L	1.0	0.18	500	07/17/23	07/21/23	2329007	
2,4-D	EPA 515.4	ND	ug/L	10	1.3	70	07/17/23	07/21/23	2329007	
Pentachlorophenol (PCP)	EPA 515.4	ND	ug/L	0.20	0.028	1	07/17/23	07/21/23	2329007	
Dinoseb (DNBP)	EPA 515.4	ND	ug/L	2.0	0.34	7	07/17/23	07/21/23	2329007	
Surrogate: 2,4-Dichlorophenylacetic acid	*EPA 515.4*	*100 %*					*07/17/23*	*07/21/23*	*2329007*	
Alachlor (ALANEX)	EPA 525.2	ND	ug/L	1.0	0.44	2	07/19/23	07/26/23	2329116	

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Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Geoscience	Project: Routine	Work Order: 23G1076
P.O. 220	Sub Project: USLR MW-1S	Received: 07/12/23 16:25
Claremont CA, 91711	Project Manager: Terry Watkins	Reported: 08/08/23

MW - 1S **23G1076-01 (Water)** **Sample Date:** 07/12/23 14:00 **Sampler:** Robert Sia

Analyte	Method	Result	Units	Rep. Limit	MDL	MCL	Prepared	Analyzed	Batch	Qualifier
Synthetic Organic Analyses										
Atrazine (AATREX)	EPA 525.2	ND	ug/L	0.50	0.15	1	07/19/23	07/26/23	2329116	
Benzo(a)pyrene	EPA 525.2	ND	ug/L	0.10	0.020	0.2	07/19/23	07/26/23	2329116	
Diethylhexylphthalate (DEHP)	EPA 525.2	ND	ug/L	3.0	1.0	4	07/19/23	07/26/23	2329116	
Di(2-ethylhexyl) adipate	EPA 525.2	ND	ug/L	5.0	2.4	400	07/19/23	07/26/23	2329116	
Molinate (ORDRAM)	EPA 525.2	ND	ug/L	2.0	0.68	20	07/19/23	07/26/23	2329116	
Simazine (PRINCEP)	EPA 525.2	ND	ug/L	1.0	0.14	4	07/19/23	07/26/23	2329116	
Thiobencarb (BOLERO)	EPA 525.2	ND	ug/L	1.0	0.25	70	07/19/23	07/26/23	2329116	
Surrogate: 1,3-dimethyl-2-nitrobenzene	*EPA 525.2*	*107 %*					*07/19/23*	*07/26/23*	*2329116*	
Surrogate: Perylene-d12	*EPA 525.2*	*72 %*					*07/19/23*	*07/26/23*	*2329116*	
Surrogate: Triphenylphosphate	*EPA 525.2*	*60 %*					*07/19/23*	*07/26/23*	*2329116*	QM-08
Oxamyl (VYDATE)	EPA 531.1	ND	ug/L	20	0.43	50	07/17/23	07/19/23	2329002	
Carbofuran (FURADAN)	EPA 531.1	ND	ug/L	5.0	0.56	18	07/17/23	07/19/23	2329002	
Glyphosate	EPA 547	ND	ug/L	25	8.6	700	07/16/23	07/18/23	2329001	
Endothall	EPA 548.1	ND	ug/L	45	0.60	100	07/13/23	07/17/23	2328048	
Diquat	EPA 549.2	ND	ug/L	4.0	0.10	20	07/17/23	07/21/23	2329020	
Subcontracted Analyses										
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA 1613B	ND	pg/L	5.0	2.5	30	07/25/23	07/28/23	2330062	CERES
Asbestos	EPA 100.2	ND	MFL	0.20		7	07/19/23	07/26/23	2329121	LT
Bromide (Br)	EPA 300.0	**0.058**	mg/L	0.010	0.0030		07/25/23	07/25/23	2330062	BSK

QM-08 The surrogate recovery was outside acceptance limits for this sample due to probable matrix interference.

LT Analysis performed at LA Testing, ELAP 2283

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

CERES Analysis performed by Ceres Analytical Laboratory, Inc. ELAP # 3046

BSK Analysis performed at BSK Associates - Fresno ELAP # 1180

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

BSK Associates San Bernardino
350 E. Commercial Road, Suite 110
San Bernardino, CA 92408
909-796-2059 (Main)

RGG0089
7/25/2023

Stu Styles
Clinical Laboratory of San Bernardino, Inc
21881 Barton Road
Grand Terrace, CA 92313

RE: Report for RGG0089 General - Trace

Dear Stu Styles,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 7/13/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, Elaine M. Phillips , at 909-796-2059.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Elaine M. Phillips, Project Manager

Accredited in Accordance with NELAP
ORELAP #4119

Case Narrative

Project and Report Details		Invoice Details	
Client:	Clinical Laboratory of San Bernardino, Inc	**Invoice To:**	Clinical Laboratory of San Bernardino, I
Report To:	Stu Styles	**Invoice Attn:**	Stu Styles
Project #:	23G1076	**Project PO#:**	-
Received:	7/13/2023 - 08:40		
Report Due:	7/25/2023		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 4.4

Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Wet Ice
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-RAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Stu Styles	FINAL.RPT	

Certificate of Analysis

Sample ID: RGG0089-01
Sampled By: Client
Sample Description: MW-1S // 23G1076-01

Sample Date - Time: 07/12/2023 - 14:00
Matrix: Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Bromide	EPA 300.0	**0.058**	0.0030	0.010	mg/L	1	AGG1035	07/17/23	07/17/23	

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control												
Batch: AGG1035											Prepared: 7/17/2023	
Prep Method: Method Specific Preparation											Analyst: CTD	
Blank (AGG1035-BLK1)												
Bromide	ND	0.0030	0.010	mg/L							07/17/23	
Blank Spike (AGG1035-BS1)												
Bromide	0.19	0.0030	0.010	mg/L	0.20		97	90-110			07/17/23	
Matrix Spike (AGG1035-MS1), Source: AGG0485-03												
Bromide	0.18	0.0030	0.010	mg/L	0.10	0.10	81	80-120			07/17/23	
Matrix Spike (AGG1035-MS2), Source: AGG1841-01												
Bromide	0.10	0.0030	0.010	mg/L	0.10	ND	101	80-120			07/17/23	
Matrix Spike Dup (AGG1035-MSD1), Source: AGG0485-03												
Bromide	0.19	0.0030	0.010	mg/L	0.10	0.10	91	80-120	5	10	07/17/23	
Matrix Spike Dup (AGG1035-MSD2), Source: AGG1841-01												
Bromide	0.10	0.0030	0.010	mg/L	0.10	ND	100	80-120	1	10	07/17/23	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.

Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certification.**

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-021
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-021
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1		

San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-007	State of Oregon - NELAP	4119-007

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-22		

BSK Associates SR-FL-0002-24

RGG0089 CLIN17693 07/13/2023

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Sample Integrity

BSK Bottles: Yes (No) Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	(Yes) No NA	Were correct containers and preservatives received for the tests requested?	(Yes) No NA
If samples were taken today, is there evidence that chilling has begun?	(Yes) No NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes No (NA) Yes No (NA)
Did all bottles arrive unbroken and intact?	(Yes) No	Was a sufficient amount of sample received?	(Yes) No
Did all bottle labels agree with COC?	(Yes) No	Do samples have a hold time <72 hours?	Yes (No)
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes (NA)	Was PM notified of discrepancies? PM: By/Time:	Yes No (NA)

Bottles Received — "—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	-01				
Bacti $Na_2S_2O_3$	—	—					
None (P) White Cap	—	—	1A				
Cr6 (P) Lt. Green Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **DW**	Cl, pH > 8	P F					
Cr6 (P) Pink Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **WW**	pH 9.3-9.7	P F					
Cr6 (P) Black Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **7199** ******24 HOUR HOLD TIME******	pH 9.0-9.5	P F					
HNO_3 (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—					
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	P F					
NaOH (P) Green Cap	Cl, pH >10	P F					
NaOH + ZnAc (P)	pH > 9	P F					
Dissolved Oxygen 300ml (g)	—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
HCl (AG) Lt. Blue Label O&G, Diesel, **TCP**	—	—					
Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	—	—					
Na_2SO_3 250mL (AG) Neon Green Label 515	—	—					
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—					
$Na_2S_2O_3$ (AG) Blue Label 548, THM, 524	—	—					
$Na_2S_2O_3$ (CG) Blue Label 504, 505, 547	—	—					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	P F					
NH_4Cl (AG) Purple Label 552	—	—					
EDA (P) or (AG) Brown Label DBPs	—	—					
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—					
Buffer pH 4 (CG)	—	—					
H_3PO_4 (CG) Salmon Label	—	—					
Trizma – EPA 537.1 Light Blue Label **FB**	---	---					
Ammonia Acetate - EPA 533 Purple Label **FB**	---	---					
Bottled Water	—	—					
Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—					
Clear Glass	—	—					
OTHER:	—	—					

RMW 7/13/23

Split

	Container	Preservative	Lot #	Initials	Date/Time
S P					
S P					

Preservation Check
pH Lot #
Cl Lot #

Comments

*Preservation check completed by lab performing analysis.

✓ **Indicates Blanks Received**

504 ___ 524.2 ___ TTHM ___ 537/533 ___ TCP___

✓ **MS/MSD Received Method:** _____

Labeled by: **Labels Checked by:**

Scanned: _____ Rush/Short HT Page: _____ Time:_____

RGG0089 CLINI7693 07/13/2023 10

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

23G1076

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

BSK Associates
350 E. Commercial Rd., Suite 110
San Bernardino, CA 92408
Phone :(909) 796-2059
Fax:

Please email results to Project Manager: Stu Styles
[ ] navarro@clinical-lab.com [X] styles@clinical-lab.com [ ] jhernandez@clinical-lab.com [ ] durand@clinical-lab.com

CLIP transfer those samples with PS codes provided [ ] Yes [X] No
Water Trax Upload Client: _____ [ ] Yes [X] No
GeoTracker Upload Client: _____ [ ] Yes [X] No
MDL's / J Flags [X] Yes [ ] No

Turn Around Time [ ] 10 Days [ ] 5 Days [X] Other 8 Days
Subcontract Comments:

Analysis	Comments
Sample ID: MW - 1S / 23G1076-01 **Sampled: 07/12/23 14:00 PS Code: Water** **WTX ID:**	
Bromide 300.0 - BSK	
Containers Supplied: 1/2 Pint Plastic (P)	

Released By	Date / Time	Received By	Date / Time
[signature]	7/13/23	M. Salazar	7/13/23 - 8:00
M. Salazar	7/13/23 - 8:39	[signature]	7/13/23 8:40

Samples Received on ( ) Wet Ice ( ) Blue Ice ( ) No Ice

Received Temp 4.4 - 0 IR#65

SAMPLE TRANSIT ORDER

RGG0089

Elaine M. Phillips

Receipt temp @ FAL: 1.0 Thermometer/ IR Gun ID: 65

SENDING LABORATORY:

BSK Associates San Bernardino
350 E. Commercial Road, Suite 110
San Bernardino, CA 92408
909-796-2059 (Main)
909-796-2174 (FAX)

Project Manager: Elaine M. Phillips
E-mail: ephillips@bskassociates.com

RECEIVING LABORATORY:

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

Turnaround (Days): Standard
QC Deliverables: I Std III IV

Client: Clinical Laboratory of San Bernardino, Inc

Sample ID	Samp Desc	Comments	Sample Date
RGG0089-01	**MW-1S**	**Client Matrix** Waste Water	**07/12/2023 14:00**
Lab Matrix:	Water		
	Analysis:		
	Bromide	trace	

Containers Included

RGG0089-01 A 250mL P / None

Released By 7-13-23 Date — UPS Received By — 7-13-23 Date

Released By Date — Received By — 7.14.23 Date

UPS W/B B

SAMPLE TRANSIT INTEGRITY

PM: Elaine M. Phillips

RGG0089
07/13/2023
CLINI7693
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BSK Bottles: Yes No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro< 8°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Bubbles Present VOAs (524.2/TCP/TTHM)?	Yes No NA
Was a sufficient amount of sample received?	Yes No	TB Received? (Check Method Below)	Yes No NA
Do samples have a hold time <72 hours?	Yes No	Was PM notified of discrepancies? PM: By/Time:	Yes No NA
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA		

Bottles Received

"---" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1					
Bacti $Na_2S_2O_3$	---	---						
None (P) White Cap	---	---	1A					
Cr6 (P) Lt. Green Label/Blue Cap $NH_4OH(NH_4)SO_4$ **DW**	Cl, pH> 8	P F						
Cr6 (P) Pink Label/Blue Cap $NH_4OH(NH_4)SO_4$ **WW**	pH 9.3 - 9.7	P F						
Cr6 (P) Black Label/Blue Cap $NH_4OH(NH_4)SO_4$ **7199** *****24 HOUR HOLD TIME*****	pH 9.0 - 9.5	P F						
HNO_3 (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	---	---						
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	P F						
NaOH (P) Green Cap	Cl, pH> 10	P F						
NaOH + ZnAc (P)	pH > 9	P F						
Dissolved Oxygen 300ml (g)	---	---						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	---	---						
HCl (AG) Lt. Blue Label O&G, Diesel, **TCP**	---	---						
Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	---	---						
Na_2SO_3 250ml (AG) Neon Green Label 515	---	---						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	---	---						
$Na_2S_2O_3$ (AG) Blue Label 548, THM, 524	---	---						
$Na_2S_2O_3$ (CG) Blue Label 504, 505, 547	---	---						
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	P F						
NH_4Cl (AG) Purple Label 552	---	---						
EDA (AG) Brown Label DBPs	---	---						
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	---	---						
Buffer pH 4 (CG)	---	---						
H_3PO_4 (CG) Salmon Label	---	---						
250mL P / Trizma 531.1	---	---						
Other:								
Asbestos 1L (P) w/Foil / LL Metals Bottle	---	---						
Bottled Water	---	---						
Clear Glass 250ml / 500ml / 1 Liter	---	---						
Solids: Brass / Steel / Plastic Bag	---	---						

7/14/23

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

✓ **Indicates Blanks Received**

504_____ 524.2_____ TCP_____

TTHM_____ 537_____ 8260/624_____

Labels Checked by:_____ Scanned by:_____ RUSH Paged by:_____@_____

LA Testing
520 Mission Street South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: 322317926
Customer ID: 32CLIN51
Customer PO:
Project ID:

Attn: Stu Styles
Clinical Laboratory of San Bernardino
PO BOX 329
San Bernardino, CA 92402

Phone: (909) 825-7693
Fax:
Received: 07/13/2023
Analyzed: 07/26/2023

Proj: 23G1076

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
MW-1S / 23G1076-01 322317926-0001	7/13/2023 02:40 PM	30	1288	0.2227	None Detected	ND	0.19	<0.19	0.00 - 0.71
Collection Date/Time:	*07/12/2023 14:00 PM*								

Analyst(s)
Kyeong Corbin (1)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Any questions please contact Jerry Drapala.

Initial report from: 07/26/2023 12:29:02

OrderID: 322317926

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

23G1076 #322317926

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

LA Testing
520 Mission Street
South Pasadena, CA 91030
Phone :(323) 254-9960
Fax: (323) 254-9982

Please email results to Project Manager: Stu Styles
[ ] navarro@clinical-lab.com [X] styles@clinical-lab.com [ ] jhernandez@clinical-lab.com [ ] durand@clinical-lab.com

CLIP transfer those samples with PS codes provided [ ] Yes [X] No
Water Trax Upload Client: _____ [ ] Yes [X] No
GeoTracker Upload Client: _____ [ ] Yes [X] No
MDL's / J Flags [ ] Yes [X] No

Turn Around Time [X] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: MW - 1S / 23G1076-01	**Sampled: 07/12/23 14:00 PS Code: Water** **WTX ID:**
Asbestos in Drinking Water EPA 100.2	
Containers Supplied:	
1 Quart Plastic (Q)	

Released By	Date / Time	Received By	Date / Time
[signature]	7/13/23	M. Salazar	7/13/23 - 8:00
M. Salazar	7/13/23 - 12:09	Annette Mckissack (LIS)	07/13/23 1240
Released By	Date / Time	Received By	Date / Time
Released By	Date / Time	Received By	Date / Time

Samples Received on ( ) Wet Ice ( ) Blue Ice ( ) No Ice

Received Temp 1.3° (F) (C)

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

July 28, 2023 Ceres ID: 16664

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313

The following report contains the results for the one drinking water sample received on July 17, 2023. This sample was analyzed for 2,3,7,8-TCDD by EPA method 1613. Routine turn-around time was provided for this work.

This work was authorized under your Subcontract Order # 23G1076.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
16664-001	MW-1S / 23G1076-01	7/17/2023	7/12/2023	14:00

Section II: Data Summary

CERES Analytical Laboratory, Inc.
4919 Windplay Dr.Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Quality Assurance Sample **Method Blank**		**Date Received:** NA
	QC Batch #: 2921	**Date Extracted:** 7/26/2023
	Matrix: Drinking Water	**Date Analyzed:** 7/26/2023
Project ID: 23G1076	**Sample Size:** 1.000 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 4.11	3.12	5.00		13C-2378-TCDD	82.0	31-137	
					CRS			
					37Cl4-2378-TCDD	103	35-197	

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit

Analyst: JMH **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Quality Assurance Sample **Ongoing Precision and Recovery**		**Date Received:** NA
	QC Batch #: 2921	**Date Extracted:** 7/26/2023
	Matrix: Drinking Water	**Date Analyzed:** 7/26/2023
Project ID: 23G1076	**Sample Size:** 1.000 L	

Analyte	Conc. (ng/mL)	Limits (a)	Labeled Standards	% Rec.	Limits (a)
2,3,7,8-TCDD	8.69	7.3-14.6	13C-2378-TCDD	83.7	25-141
			CRS		
			37Cl4-2378-TCDD	108	37-158

(a) Limits based on method acceptance criteria.

Analyst: JMH **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Client Sample ID: MW-1S / 23G1076-01		
Project ID: 23G1076	**Ceres Sample ID:** 16664-001	**Date Received:** 7/17/2023
	QC Batch #: 2921	**Date Extracted:** 7/26/2023
Date Collected: 7/12/2023	**Matrix:** Drinking Water	**Date Analyzed:** 7/26/2023
Time Collected: 14:00	**Sample Size:** 1.000 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 3.46	3.12	5.00		13C-2378-TCDD	74.2	31-137	
					CRS			
					37Cl4-2378-TCDD	104	42-164	

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit

Analyst: JMH **Reviewed by: BS**

Section VI: Sample Tracking

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

23G1076

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Ste. 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax:

Please email results to Project Manager: Stu Styles
[ ] navarro@clinical-lab.com [X] styles@clinical-lab.com [ ] jhernandez@clinical-lab.com [ ] durand@clinical-lab.com

CLIP transfer those samples with PS codes provided	[ ] Yes	[X] No
Water Trax Upload Client: _____	[ ] Yes	[X] No
GeoTracker Upload Client: _____	[ ] Yes	[X] No
MDL's / J Flags	[ ] Yes	[X] No

Turn Around Time [X] ~~10 Days~~ [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: MW - 1S / 23G1076-01	**Sampled: 07/12/23 14:00 PS Code:** **Water** **WTX ID:**
1613 Dioxins TCDD DW Week	

Containers Supplied:

1 L Amber Glass Na Thio EPA 1613 (R) 1 L Amber Glass Na Thio EPA 1613 (S)

Released By	Date / Time	Received By	Date / Time
	7/13/23		7/13/23 1306
	7/13/23 1506		7/17/23

Samples Received on ( ) Wet Ice ( ) Blue Ice ( ) No Ice

Received Temp _____ (F) (C)

Sample Receipt Check List Logged by: HH (initials)

Ceres ID: 16664	Date/Time: 7/17/23 11:33
Client Project ID: 23G1076	Received Temp: 6.0 °C Acceptable: (Y) / N
Chain of Custody Relinquished by signed?	(Y) / N
Chain of Custody Received by signed?	(Y) / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	(NA)
Unlabeled / Illegible Samples	Y / (N)
Proper Containers:	(Y) / N
Preservation Acceptable (~~Chemical or Temperature~~)?	(Y) / N
Drinking Water, Sodium Thiosulfate present?	(Y) / N / NA
Residual Cl?	Y / (N) / NA
Aqueous sample pH: 7	NA

List COC discrepancies:

HH 7/17/23

List Damaged Samples:

HH 7/17/23

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

23G1076

WO _____

0-1-25

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	GEOSCIENCE Support Services Inc.
Address:	PO Box 220
	Claremont, CA 91711
Client Contact:	Logan Wicks
Phone No.:	909.451.6650 FAX No.:
System No.:	
Project:	USLR MW-15
Sampled By:	N. Nguyen (GSSI)
Comments:	

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	No. of Preserved Containers: Unpreserved	$Na_2S_2O_3$	Monochloroacetic Acid	HNO_3	CrVI Buffer	HCl			Total Containers	Secondary Standards	Inorganic Chemicals	Chromium (VI)	524 VOC, 524M/SRL 1,2,3-TCP	SOC's 504, 508, 515, 525, 531, 547, 548, 549, 1613	Gross Alpha/ Uranium	Sulfides, Total & Dissolved	TOC	Silica	Asbestos	Bromide	Corrosivity			Comments	Turn Around Time (TAT)
				GW	4	6	1	2	1	7	1	1	23	X	X	X	X	X	X	X	X	X	X	X	X				
		Bottles:																											
7/12/2023		2 X 1 Liter Amber Glass w/$Na_2S_2O_3$		1613																									
	14:00	4 X 40mL Amber Vials w/ HCl (524)		524																									
		1 X 250 Liter Amber Glass w/Na2SO3 (		515																									
		1X 1/2 Gallon Poly		SeeIOC																									
		1 X Quart Poly		Asbestos																									
		1 X Pint Poly w/ HNO3		Metals																									
		1 GP Bottle		GP																									
		3 X 1 Liter Amber Glass w/HCl		508/525																									
		4 X 250mL Amber Poly w/Na2S2O3		548																									
		2 X 40mL Amber vials w/ Na2S2O3		504																									
		4 X 125mL Amber Glass w/ Na2S2O3		547																									
		1 X 250mL Amber Glass w/ Monochloroacetic Acid					531																						
		1X 1/2 Pint w/ NaOH	CN																										
		1X 1/2 Gallon w/ HNO3	GA/U																										
		1/2 Pint Poly w/ Cr (VI) Buffer							1X250mL Amber--Sulfides, dissolved											1	A	125mL Amber w/HCl-TOC						
		1/2 Pint Poly	Br						1X250mL Amber w/ NaOH/ZnAcetate--Sulfide																				

Field Parameters:

Turbidity = 2.19 NTU

pH = 6.70

E.C = 473uS

temp = 20.80°C

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By: Signature	Print Name	Date Time	Received By	Received By
	Nicolette Nguyen	07/12/23 16:25		
		7/12 16:25	CC	Olivia/GSSB

Condition: [X] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By:

Receipt Comments: Clinical Lab Receipt Temp: 5.3 °C

ATTACHMENT C
DWR WELL COMPLETION REPORT

GEOSCIENCE

The First Name in Groundwater

State of California

Well Completion Report

Form DWR 188 Submitted 8/24/2023

WCR2023-009340

Owner's Well Number: USLR MW-1D | Date Work Began: 05/30/2023 | Date Work Ended: 06/08/2023

Local Permit Agency: County of San Diego DEH/LWQD Land Water and Quality Division, Monitoring Well Program

Secondary Permit Agency: | Permit Number: DEH2023-LMWP-005932 | Permit Date: 05/25/2023

Well Owner (must remain confidential pursuant to Water Code 13752)

Name: YUIMA MUNICIPAL WATER DISTRICT, C/O AMY REEH

Mailing Address: P.O. BOX 177

City: PAUMA VALLEY | State: CA | Zip: 92061

Planned Use and Activity

Activity: New Well

Planned Use: Monitoring

Well Location

Address: 15057 HIGHWAY 76

City: PAUMA VALLEY | Zip: 92061 | County: San Diego

Latitude: 33 Deg. 20 Min. 2.5728 Sec. N | Longitude: -117 Deg. 0 Min. 46.6703 Sec. W

Dec. Lat.: 33.334048 | Dec. Long.: -117.012964

Vertical Datum: | Horizontal Datum: WGS84

Location Accuracy: | Location Determination Method:

APN: 130-050-14-00

Township: 10 S

Range: 01 W

Section: 05

Baseline Meridian: San Bernardino

Ground Surface Elevation:

Elevation Accuracy:

Elevation Determination Method:

Borehole Information

Orientation: Vertical | Specify:

Drilling Method: Other - MUD ROTARY | Drilling Fluid: Other - MUD

Total Depth of Boring: 148 Feet

Total Depth of Completed Well: 125 Feet

Water Level and Yield of Completed Well

Depth to first water: (Feet below surface)

Depth to Static Water Level: 30.2 (Feet) | Date Measured: 07/11/2023

Estimated Yield*: (GPM) | Test Type:

Test Length: (Hours) | Total Drawdown: (feet)

*May not be representative of a well's long term yield.

Geologic Log - Free Form

Depth from Surface Feet to Feet		Description
0	53	POORLY GRADED SAND
53	85	CLAY WITH SAND
85	90	CLAY
90	95	CLAY WITH SAND
95	105	POORLY GRADED SAND WITH CLAY
105	127	POORLY GRADED SAND
127	148	GRANITIC BEDROCK

Casings

Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	20	Blank	Low Carbon Steel	Grade: ASTM A53	0.25	10.75			SANITARY SEAL CASING
2	0	95	Blank	PVC	N/A	0.337	4.5			SCH80 FLUSH-THREADED PVC
2	95	125	Screen	PVC	N/A	0.337	4.5	Milled Slots	0.02	SCH80 FLUSH-THREADED PVC

Annular Material

Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	20	Cement	Portland Cement/Neat Cement		SANITARY SEAL (OUTSIDE 10" STEEL CASING)
0	20	Cement	Portland Cement/Neat Cement		SANITARY SEAL (INSIDE 10" STEEL CASING AND OUTSIDE 4" PVC LINER)
20	22	Bentonite	Other Bentonite		BENTONITE CHIPS - SANITARY SEAL
22	148	Other Fill	See description.	NO. 3	LAPIS LUSTRE #3 FILTER PACK

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	20	17
20	148	10

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: STEHLY BROTHERS DRILLING INC, Paul Stehly
Person, Firm or Corporation

13268 MC NALLY RD | VALLEY | CA | 92082
Address | City | State | Zip

Signed: *electronic signature received* | 08/24/2023 | 709686
C-57 Licensed Water Well Contractor | Date Signed | C-57 License Number

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

N

Latitude Deg/Min/Sec

W

Longitude Deg/Min/Sec

TRS:

APN:

State of California

Well Completion Report

Form DWR 188 Submitted 8/24/2023

WCR2023-009341

Owner's Well Number: USLR MW-1S | Date Work Began: 06/09/2023 | Date Work Ended: 06/15/2023

Local Permit Agency: County of San Diego DEH/LWQD Land Water and Quality Division, Monitoring Well Program

Secondary Permit Agency: | Permit Number: DEH2023-LMWP-005932 | Permit Date: 05/25/2023

Well Owner (must remain confidential pursuant to Water Code 13752)

Name: YUIMA MUNICIPAL WATER DISTRICT, C/O AMY REEH

Mailing Address: P.O. BOX 177

City: PAUMA VALLEY | State: CA | Zip: 92061

Planned Use and Activity

Activity: New Well

Planned Use: Monitoring

Well Location

Address: 15057 HIGHWAY 76

City: PAUMA VALLEY | Zip: 92061 | County: San Diego

Latitude: 33 Deg. 20 Min. 2.6159 Sec. N | Longitude: -117 Deg. 0 Min. 46.566 Sec. W

Dec. Lat.: 33.33406 | Dec. Long.: -117.012935

Vertical Datum: | Horizontal Datum: WGS84

Location Accuracy: | Location Determination Method:

APN: 130-050-14-00

Township: 10 S

Range: 01 W

Section: 05

Baseline Meridian: San Bernardino

Ground Surface Elevation:

Elevation Accuracy:

Elevation Determination Method:

Borehole Information

Orientation: Vertical | Specify:

Drilling Method: Other - MUD ROTARY | Drilling Fluid: Other - MUD

Total Depth of Boring: 65 Feet

Total Depth of Completed Well: 55 Feet

Water Level and Yield of Completed Well

Depth to first water: (Feet below surface)

Depth to Static Water Level: 30.2 (Feet) | Date Measured: 07/11/2023

Estimated Yield*: (GPM) | Test Type:

Test Length: (Hours) | Total Drawdown: (feet)

*May not be representative of a well's long term yield.

Geologic Log - Free Form

Depth from Surface Feet to Feet		Description
0	22	SAND AND SMALL BOULDERS
22	53	SAND AND BOULDERS WITH CLAY
53	65	CLAY WITH SAND

Casings

Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	20	Blank	Low Carbon Steel	Grade: ASTM A53	0.25	10.75			SANITARY SEAL CASING
2	0	35	Blank	PVC	N/A	0.337	4.5			SCH80 FLUSH-THREADED PVC
2	35	55	Screen	PVC	N/A	0.337	4.5	Milled Slots	0.02	SCH80 FLUSH-THREADED PVC

Annular Material

Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	20	Cement	Portland Cement/Neat Cement		SANITARY SEAL (OUTSIDE 10" STEEL CASING)
0	20	Cement	Portland Cement/Neat Cement		SANITARY SEAL (INSIDE 10" STEEL CASING AND OUTSIDE 4" PVC LINER)
20	22	Bentonite	Other Bentonite		BENTONITE CHIPS - SANITARY SEAL
22	28	Other Fill	See description.	NO. 6	SAND #6 FILTER PACK
28	58	Other Fill	See description.	NO. 3	LAPIS LUSTRE#3 FILTER PACK
58	65	Other Fill	See description.	NO. 6	SAND #6 FILTER PACK

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	20	17
20	65	10

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: STEHLY BROTHERS DRILLING INC, Paul Stehly
Person, Firm or Corporation

13268 MC NALLY RD | VALLEY | CA | 92082
Address | City | State | Zip

Signed: *electronic signature received* | 08/24/2023 | 709686
C-57 Licensed Water Well Contractor | Date Signed | C-57 License Number

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

					N
Latitude Deg/Min/Sec					

					W
Longitude Deg/Min/Sec					

TRS:

APN:

CLOSED SESSION

INFORMATION / REPORTS

TOP NEWS

San Diego Regional Leaders Offer Insights into Water Affordability

Leaders from the San Diego region— Water Authority Board Member Ismahan Abdullahi, Water Authority General Manager Dan Denham, and Agri Service Inc., President and San Diego Farm Bureau Board Member Mary Matava—offered diverse perspectives on tackling water affordability at a panel hosted by the Metropolitan Water District of Southern California (MWD). On August 14, 2023, MWD hosted this panel to inform its Board on its potential challenges and opportunities to address water affordability. MWD is contemplating tens-of-billions-of-dollars in supply reliability investments through its ongoing long-term planning process Climate Adaptation Master Plan for Water.

Director Abdullahi who works hand-in hand with communities "living at the margin," stated that these communities exist because of "inequitable systems" and the importance of "not adding to those inequities from the water sector perspective." To find solutions, including for water affordability, she called for "evidence-based decision-making," which goes beyond "just the numbers" and includes the perspectives of diverse stakeholders like those from marginalized communities.

During the panel, Denham emphasized the need for creativity and out-of-the-box thinking to develop solutions to keep water affordable while enhancing reliability. He suggested MWD examine leveraging one of its greatest existing assets—its regional distribution system—to facilitate "virtual transfers" and optimize resources management while containing costs.

Matava acknowledged that many pressures on agriculture "do not have a lot to do with water." However, she highlighted "the [high] costs of doing business in Southern California," including water costs, which she said could be offset through state-level policy changes like recognizing (and paying for) carbon sequestration from farms.

Other panelists included, Dr. Maura Allaire, UC Irvine School of Social Equality Assistant Professor; Jennifer Capitolo, California Water Association Executive Director; and Mauricio Guardado, United Water Conservation District General Manager. Listen to the complete panel here.

Affordability Panel (L-R): Liji Thomas (moderator), Jennifer Capitolo, Ismahan Abdullahi, Mary Matava, Dan Denham, Dr. Maura Allaire, and Mauricio Guardado

TOP NEWS

CRB Welcomes Colorado Commissioner Rebecca Mitchell to CRB's August Meeting

Rebecca Mitchell, Colorado Commissioner to the Upper Colorado River Commission, presented at the Colorado River Board of California's (CRB) August meeting on her state's water reliability challenges. As Colorado's principal negotiator for the post-2026 guidelines, she also shared her guiding principles for the upcoming negotiations. Colorado River Basin states, including California, are preparing for a multi-year National Environmental Policy Act process that will identify a range of alternatives and determine operations for Lakes Powell and Mead and other water management actions post 2026. The Basin states have announced their intent to work together to develop an alternative for consideration and evaluation in the post-2026 environmental impact statement. Intra- and interstate negotiations will be necessary to develop such an alternative that could shape the future of river management. The Water Authority will remain engaged in the post-2026 guidelines process as a member of the CRB.

Colorado River Commissioner Rebecca Mitchell (pictured left of CRB Vice Chair Jim Madaffer) addressed the CRB in Manhattan Beach. Also pictured are other members of the CRB

Water Authority Earns Gold Status for Climate Initiative

The San Diego County Water Authority has earned Climate Registered gold status from The Climate Registry for verifying and publicly reporting its greenhouse gas emissions. This effort fosters transparency for the agency's climate mitigation initiatives and will help the Water Authority track and validate emissions reductions in the future.

The Climate Registry operates North America's largest voluntary registry for greenhouse gas (GHG) emissions. The Water Authority's 2021 inventory was verified this year, adding to the prior 2019 and 2020 inventories, and earning the Water Authority gold status for all three years.

The Climate Registry is a nonprofit organization that designs and operates voluntary and compliance GHG reporting programs globally, and assists organizations in measuring, reporting, and verifying the carbon in their operations in order to manage and reduce it. The registry also builds capacity for emissions reductions among government agencies, and spearheads innovative projects such as the Water-Energy Nexus Registry.

"Organizations that become Climate Registered are the leaders in a growing movement to address climate change by managing and reducing emissions at the subnational level," said Amy Holm, executive director of The Climate Registry. "We have just over a decade to take action that will ensure we avoid the worst effects of climate change. This kind of leadership is needed now more than ever." More information is at www.theclimateregistry.org.

COMMUNITY OUTREACH

"Thanks for planting me!" Campaign Wraps Up First Phase

This month, the Water Authority will wrap up the first phase of its outreach campaign, "Thanks for Planting Me!" after a successful summer-long run. The campaign encouraged greater adoption of sustainable landscapes that prepare the region for a hotter and drier climate. It also offered gratitude to the thousands of San Diegans who have transformed their landscapes using low-water and native plants as part of a larger effort to use water more efficiently.

The campaign, which was supported by state grant funds to promote water-use efficiency, appeared in a variety of outdoor, print, and digital advertising platforms in English, Spanish, Tagalog, and Vietnamese. Outdoor ads, including billboards, transit shelters, and bus ads, were strategically placed across the region to ensure the greatest possible reach. Print ads appeared in Edible San Diego, the San Diego Union-Tribune, and multilingual publications such as the San Diego Union-Tribune en Español, El Latino, Nguoi Viet Tu Do, and Asian Journal. Building on the success of last year's successful partnership with Telemundo, the Water Authority again joined with one of their on-air personalities to create content for a regional Spanish-speaking audience.

The Water Authority has seen excellent engagement with the digital component of the outreach campaign. The campaign landing page quickly became the most popular page on the agency's website and brought more attention to the Water Authority's conservation resources, especially rebates and WaterSmart classes. In addition, the Water Authority has received hundreds of newsletter signups for its WaterSource newsletter. The campaign also helped the Water Authority gain 700+ followers across five social media platforms.

In addition, the Water Authority distributed hundreds of landscape-themed promotional garden kits to member agencies, which helped them to engage residents at events and on social media. Garden kits included an outdoor-use tote bag, a hand shovel, a pair of gardening gloves, a Plant Me! character sticker and an informational flyer that invited readers to learn more about rebates and resources.

As part of the campaign, the Water Authority participated in the San Diego County Fair in partnership with the Department of Water Resources and renewed a partnership with San Diego Zoo Global to promote water-smart gardening on signage at the Safari Park's demonstration garden.

In coming months, the Water Authority will engage member agencies through the JPIC forum to assess next steps.

Preparing to Rehabilitate the Southern First Aqueduct Pipeline Structures

The design of the Southern First Aqueduct Structures Rehabilitation project is complete, and the project is now preparing to move into the construction phase. The project includes rehabilitating, replacing, or abandoning 99 structures originally built with First Aqueduct Pipelines 1 and 2 in 1947 and 1954, respectively.

As part of the Asset Management Program, staff and an engineering consultant performed a condition assessment of the pipeline, valves, and access structures. The condition assessment identified a need for structure rehabilitation, replacement, or abandonment to extend the aqueduct service life and improve operations and maintenance activities.

The project stretches over 21 miles from northern Escondido to San Vicente Reservoir in Lakeside, as shown in the Figure below. The scope includes replacing existing blow off structures; rehabilitating exiting air release valve and manway structure tops and entry hatches; and installing new valves, pipeline nozzles, ventilation features, piping, and ladders. Site drainage and other surface improvements will also be completed. These improvements will improve the operation and maintainability of the First Aqueduct and extend the aqueducts service life by approximately 50 years.

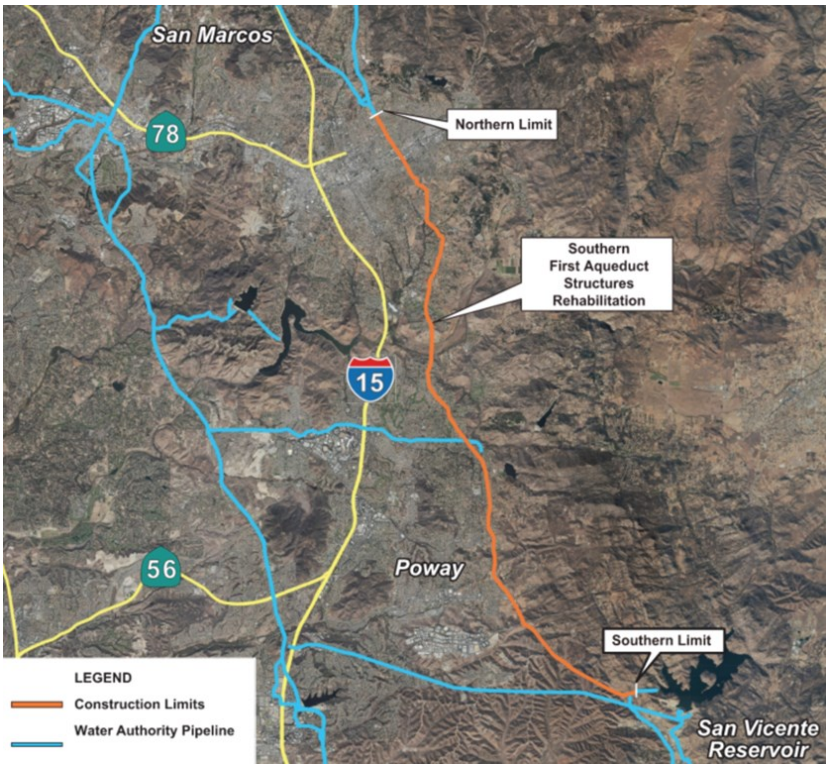
COMMUNITY OUTREACH

Preparing to Rehabilitate the Southern First Aqueduct Pipeline Structures, Continued

The project requires extensive coordination with numerous member agencies to facilitate multiple aqueduct shutdowns needed to complete the work. Three separate 10-day shutdowns spaced approximately one year apart will be used to individually isolate Pipeline 1 and Pipeline 2 during construction. Shutdown impacts will be minimized through the construction of two flow control facility interconnects to allow for continued water deliveries while each pipeline is rehabilitated.

While the pipelines are out of service for construction, efficiencies will be realized by performing internal pipeline condition assessment concurrently with project construction. Asset Management will scan the pipeline for defects not visually apparent using nondestructive electromagnetic assessment technology. The assessment data will be used to evaluate pipe condition and ensure the First Aqueduct will continue to serve member agencies for years to come.

Staff will advertise the construction contract for public bid this August, with an anticipated Board award in the Fall. Construction activities will begin shortly thereafter and be completed approximately three years later.



DEPARTMENT NEWS

2023 Safety Standdown

Every summer, the Operations & Maintenance (O&M) department takes a break from normal field activities to celebrate the completion of the annual shutdown season with a day focused on training and safety called the "Safety Standdown". Staff from O&M and other departments remain in the Escondido yard during this annual event to conduct equipment safety inspections, attend safety training, participate in friendly safety related competitions, and share in a BBQ lunch with staff members from across the organization. This event allows for an efficient and effective way for the agency to provide required training, perform yard maintenance and inspection activities, and provides the opportunity to learn about and try out new safety and personal protective equipment.

From L to R: Vendors demonstrated their available tools; educational sessions offered throughout the day; fall protection equipment training

This year's event took place on August 17th, 2023, and included designated time for safety harness inspection, as well as educational sessions on the aqueduct system, valve types, valve assessments, electrical safety, fall protection and distracted driving. Following a fabulous lunch that facilitated networking opportunities for staff from many different departments and friendly games of cornhole, we held our very own backhoe rodeo! This fun event gave field staff the opportunity to test their skills operating a mini excavator and a mobile crane while navigating an obstacle course during a friendly competition. Our award-winning equipment operators even offered to oversee any newbies that elected to hop into the machines and attempt basic maneuvers of the heavy equipment. It was an excellent way to demonstrate the skills of our equipment operators, while also providing exposure to equipment that is so critical to the maintenance of our facilities. All in all, it was a great day of learning, mentoring, and employee engagement.

From L to R: Grill masters Doug Llamas, Luke Holbrook and Bill Keyser smoking the tri tip & grilling the carne asada; staff enjoying a scrumptious lunch & a friendly game of cornhole

From L to R: A look at the maze used to equipment operating skills; General Manager Dan Denham and O&M Director Eva Plajzer try their hand at operating some of the heavy equipment with help from staff

HEADWATERS

Vista Irrigation District Emerges to Serve Farms, Residents

In the 1920s, citrus and avocado farming in the Vista area increased so quickly there was danger of running out of water. Completion of the Henshaw Dam in 1923 made it possible for the Vista community to receive a stable source of water instead of relying on wells. It sparked discussion about forming a water district to secure additional imported water. On August 28, 1923, voters approved formation of the Vista Irrigation District (VID) in a landslide: 104 votes to four votes – with 100% voter turnout. Water from Lake Henshaw arrived on February 27, 1926. Vista became a center of avocado production, with six avocado packing houses in the area. In June 1946, Vista Irrigation District purchased the San Diego County Water Company. Included in the purchase was the 43,000-acre Warner Ranch, which included Henshaw Dam and Lake Henshaw. Drought conditions and population growth prompted VID to become a member agency of the San Diego County Water Authority in 1954, allowing it to take advantage of water imported from the Colorado River and Northern California. Over the years, Vista transformed itself from its agricultural origins to a thriving community with a diversified economic base and a revitalized downtown.

Members of the Vista Irrigation District and community leaders celebrate the arrival of water from Lake Henshaw

YUIMA MUNICIPAL WATER DISTRICT
ADMINISTRATIVE REPORT
September 2023
Amy Reeh
General Manager

DISTRICT BUSINESS

Local Water Development

Please see the status report in the Operations Section of this packet.

Administrative Reporting, etc.

The District's Annual Audit was conducted the week of September 11-14, 2023. While we will not have the results of the audit until January (after the completion of the ACFR) staff feels that it was a smooth process with no issues being noted by the auditor with the exception of a payroll accrual error. This is an immaterial error but will be mentioned in the auditors report.

Fallbrook and Rainbow Detachment

AB 399, the legislation that was proposed by the City of San Diego to require a countywide vote on the detachment, was passed by the legislature and is on the Governor's desk for approval. However, the emergency clause was removed, so this legislation should not affect the detachment of Rainbow and Fallbrook because they will be holding a vote in November. The detachment of these agencies will be detrimental to all of the remaining member agencies of the Water Authority as the revenue losses caused by the detachment will have to be made up by the remaining agencies.

Groundwater Sustainability Plan

There is no update to the approval of the Groundwater Sustainability Plan at this time. General Manager Reeh met with DWR staff on August 29th and they did not indicate any determination regarding the issue. They indicated that their staff continues to review GSPs and will have all GSP determinations completed by January 31, 2023. The final Groundwater Sustainability Plan was submitted to DWR on January 31, 2022. DWR is reviewing the submission. The 45-day comment period ended on April 30, 2022, and a total of three (3) comments posted to the SGMA Portal, all of which were duplicates of comments received during the GSA's 45-day public comment period. It is unknown when the GSA will receive notification as to whether the Plan is approved, requires revisions (which allows 180 days to complete) or is denied. District staff will monitor the comments received and work with the members of the GSA to address and respond as necessary.

ANNEXATIONS/NEW SERVICE REQUESTS

There is no update to this project. The annexation continues to move slowly through the process. Yuima is having a difficult time getting NV5 to do dedicated easements; they would like us to use existing rights of way (ROW). The District's policy is to have dedicated easements only. This allows us to maintain and repair service lines without having to get permission. It also

ensures that we don't have to work around other utilities and infrastructure that also use those ROWs. District staff has also notified the annexation team that it will not send out letters for easements that offer monetary compensation in exchange for the easements until we have funding secured and on deposit to issue those payments.

Additionally, the District has also brought up the fact that SWRCB has indicated in our sanitary survey that we do not have current supply or storage capacity for our existing demands. This has resulted in a request from Yuima for additional storage, albeit small. I am currently reviewing the suggested locations for this additional storage that will be paid for out of the annexation grant.

Finally, the District has notified the team that Yuima's estimated costs in the grant budget is significantly underestimated. Staff continues to remind the team that the District will not, under any circumstances, expend any of its own money for this project and no work will be done by District staff once the deposit on hand is exhausted.

CURRENT LEGISLATION OF CONCERN:

There are several pieces of Legislation concerning water rights that are moving forward despite ACWA's opposition.

- AB1594

AB 1594 (Garcia), which would help local governments comply with the California Air Resources Board's (CARB) Advanced Clean Fleets Regulation (ACF) without compromising critical services to customers.

AB 1594 would require any state regulation that requires the procurement of medium- and heavy-duty zero-emission vehicles (ZEVs), to authorize public agency utilities to purchase replacements for traditional utility-specialized vehicles that are at the end of their useful life, without regard to the model year of the vehicle being replaced, to maintain reliable service and respond to major foreseeable events, including severe weather, wildfires, natural disasters, and physical attacks.

The ACF requires California fleet owners and operators to start purchasing ZEVs in 2024, with the goal to move California's medium- and heavy-duty trucks to zero emission, where feasible, by 2045. AB 1594 would provide flexibility for this transition by allowing public water agencies and others to work with CARB to identify situations where traditional vehicles must be purchased to replace vehicles at the end of their useful life. The bill would apply to publicly owned electric utilities, community water systems, water districts, irrigation districts, flood control agencies, and wastewater treatment providers.

AB 1594 was passed by the Legislature last week and sent to the governor for his signature.

YUIMA MUNICIPAL WATER DISTRICT
2023-24 Capital Projects
As of August 31, 2023

	Approved 2023-24 Budget	Approved Budget Carry Forward	Current Year Expenditures 2023-24	Prior Year Expenditures Forward	Total Project Expenditures
GENERAL DISTRICT 10-600-60					
McNally Tank 2 Interior and Exterior Recoating		$ 450,000		$ -	$ -
AMR Meter Replacement			$ -	$ -	$ -
Line Locator			$ 5,041	$ -	$ 5,041
T-Y Well 1 Pump Station 10-600-60-6300-614			$ 63,811	$ 218,322	$ 282,133
Total General District Capital Projects - 2023-24		**$ 450,000**	**$ 68,851**	**$ 218,322**	**$ 287,173**
IMPROVEMENT DISTRICT A 20-600-60					
Pump Station 4 Pump Cover		$ 20,000	$ -	$ -	$ -
Pump Station 4 Bypass Valve		$ 9,764	$ -	$ -	$ -
Dunlap CL2 Analyzer Building Replacement		$ 10,000	$ -	$ -	$ -
AMR Meter Replacement			$ -	$ 5,557	$ 5,557
Total IDA Capital Projects - 2023-24		**$ 39,764**	**$ -**	**$ 5,557**	**$ 5,557**
Total General District & IDA Capital Projects 2023-24	**$ -**	**$ 489,764**	**$ 68,851**	**$ 223,879**	**$ 292,730**

YUIMA MUNICIPAL WATER DISTRICT

OPERATIONS REPORT – September 2023

WELLS - IDA

River Wells

WELL	GPM	STATUS
12	246	In Service
19A	299	In Service
20A	299	In Service
25	299	In Service
22	162	In Service

Fan Wells

WELL	GPM	STATUS
7A		Non-Potable Water Use
10		Non-Potable Water Use
14	299	In Service
17	117	In Service
18		Non-Potable Water Use
23		Off – High Nitrate Levels
24		Off – High Nitrate Levels
29	132	In Service

Horizontal Wells

WELL	GPM	STATUS
41	17.1	Non-Potable Water Use
42	31.7	Non-Potable Water Use
44	2.6	Non-Potable Water Use
46	8.3	Non-Potable Water Use
47	4	Non-Potable Water Use
48	14.5	Non-Potable Water Use
49	10.1	Non-Potable Water Use
50	12.5	Non-Potable Water Use

BOOSTER STATIONS

STATION	PUMPS	STATUS
PERRICONE	1.2.3.4	#4 Motor Issue
FOREBAY	1,2,3,4	OK
EASTSIDE	1,2,3	OK
1	1,2,3,4	OK
4	1,2,3	OK
6	1,2,3	OK
7	1,2,3	Pump 1 Warranty Repair
8	1,2,3,4	OK – SCADA work is needed to address backup battery and programming issues.

RESERVOIRS AND TANKS

All tanks and reservoirs are currently in normal operation. However, there are some issues that need to be addressed soon.

- Dunlap tank is a bolt together, galvanized tank with a life expectancy of 25 years. The tank is currently 19 years old and has a high level of corrosion on the interior due to the high levels of iron and manganese that comes from the horizontal well water. The District used the tank to blend the horizontal well water until May of 2019 when the SWRCB directed us to stop that practice and only use the well water for agricultural purposes. Repair or replacement of the tank needs to occur. The District will seek information on all options available to make an informed decision as to what the best course of action will be.

- Eastside Tank was inspected and cleaned in April 2023. The exterior of the tank was found to be in good condition with a few minor repairs. The interior of the tank, however, was found to be in extremely poor condition and was recommended to be recoated within the next three years.

- Tank 1 was inspected and cleaned in April of 2022 and the exterior of the tank was found to be in good condition. The interior of the tank has significant corrosion on the shell above the water line and therefore it is recommended that the tank should be inspected every two years until the tank interior is recoated. The next inspection is due in May 2024.

- Tank 8 was inspected and cleaned in April of 2023. We are awaiting the final report with recommendations.

- Perricone Tank was inspected in April 2023. The interior and exterior of the tank was recoated in 2016. The exterior of the tank was found to be in very good condition. The interior of the tank was found to be in good condition overall. The tank is due for inspection in 2026. There are a few minor areas of corrosion that can be fixed to mitigate any serious damage.

- Zone 4 Tank was cleaned and inspected in January 2022. There was some sediment. The interior coating looked good, and the tank cleaned up nicely.

- McNally Tank 1 as inspected and cleaned in April of 2022. The roof has metal loss that needs to be addressed. Due to the metal loss on the roof, it is recommended the interior of the tank be recoated within the next 24 months.

- McNally Tank 2 was inspected and cleaned in April 2023. *SCHEDULED FOR INTERIOR AND EXTERIOR RECOATING IN FY 2021/22*. ***This is delayed due to CWA shutdowns during normal available down times and contractor availability.***
- Forebay Tank was inspected in April of 2022. The overall condition of the exterior and interior ranges from good to excellent except for the overflow lines which have moderate corrosion and early stages of metal loss. The inspection company recommends addressing the corrosion on the overflow lines. Forebay tanks are due for inspection in April 2025.

- Both nitrate analyzers had the annual maintenance completed in March 2023.

WATER QUALITY

- The Yuima and IDA distribution systems, as well as all special raw water groundwater well bacteriological tests, are taken on schedule and the District remains in compliance of all water quality standards.

- Well 23 and 24 have gradually increased in Nitrates. We continue to test both wells monthly. The wells have been shut down due to the high nitrate levels.

DISTRICT OPERATIONS PERSONNEL

No current limitations

OTHER PROJECTS AND PROGRAMS

Pump Maintenance
Pump maintenance has been scheduled for all pumps at all pump stations.

Forebay Pump Station
All pumps at Forebay have been repaired and are fully operational.

CWA Emergency Storage Project (ESP) Valley Center MWD / Yuima MWD Inter-tie
The ESP project is moving forward, and preliminary construction has begun.

SAFETY PROGRAMS AND TRAINING

Field staff participate in weekly tailgate safety meetings and continue to complete necessary training online as well as with other Districts and with various additional industry resources.

WATER METERS AND SERVICES

Meter Replacements, Downsizing and Removals
District staff are currently analyzing and replacing older meters in the District to help reduce slippage. Older prop meters tend to become less accurate, especially with the high usage District meters encounter. To optimize staff, and make meter reading more efficient in the future, all new meters installed are AMR meters that can be incorporated into the District's AMR meter reading program.

SDCWA MAINTENANCE SHUTDOWNS

There are no SDCWA shutdowns scheduled for the fiscal year 2023-24.

STATE WATER RESOURCES CONTROL BOARD

Yuima has two separately permitted operating systems: one for the General District and

one for Improvement District A (IDA). In July of 2017 the State Water Resources Control Board (SWRCB) has been in the process of updating its records and incorporating several permit amendment requests for both systems. This process has been delayed by both significant staffing change within SWRCB which resulted in the District being subjected to 5 inspections over the last 8 years; each time the SWRCB staff changed, a new inspection was conducted by the newly assigned staff member. After many years of working with the SWRCB staff we are finally wrapping up the permit revisions for both the General District and IDA.

Yuima General District's revised operating permit has been issued.

IDA's revised operating permit is almost complete. Staff have provided the SWRCB with the requested information.

To-do list

Status as of 9/19/23

To be completed by:	Amy Reeh
Deadline:	31-Aug-23

TY Well Connection

% done	Phase	Due By	Notes
100%	Current Well Sample per Board Request	4/31/23	Mark
100%	Compile comprehensive List of equipment necessary for CL2 Analyzer at TY Well. Include Costs and Lead times	4/31/23	Mark
100%	Compile Estimate for work to be performed by Roger Redding.	4/31/23	Mark
100%	Follow Up with Tom Tran for cost to connect CL2 and Nitrate Analyzers to	7/31/23	Mark - Reuse Schoepe Nitrate - inventory parts and order any missing parts.
100%	SDG&E Upgrade - Permit	7/31/23	Hydrocurrent - Permit issued 7/31/23
100%	Trenching - Electrical?	N/A	SDG&E will run overhead from transformer, trenching needed from transformer to meter. Completeted
0%	Concrete Pad for SDG&E Meter	9/29/23	Hydrocurrent - will pour slab at the same time they pour the slab for the booster pumps & CL2 station
100%	Well Pump Rebuild & Install. Quote for Pump & Motor installation states " Install customer supplied pump,	8/11/23	Pump & Motor installed on 8/15/23 - working with Tran to test pump, sync with VFD and pump well to pull title 22 test.
100%	Parts for Pump Rebuild - Ordered / Received?	8/2/23	Pump & Motor installed on 8/15/23
100%	Gravel Shoot Installation	8/11/23	Hydrocurrent - when they set the pump & motor
95%	Well Connection to SCADA - Parts oredered / received? Trenching for conduit, not included in quote, who will perform? I/O Wiring not	9/26/23	Tran Solutions - Tom working with Mark to dial in connection to VFD and running well for ***pump test on 9/26*** and title 22 testing. Pump test needed for Drinking Water Source Assessment being completed by NV5
90%	Fill Line From Well to Tanks - Check Valve, Air Vac, Sample Port and	8/8/23	Hydrocurrent - Flow meter to Hydro 7/31. Hydro to set spools and then Roger and Yuima staff to connect tank fill line.
100%	Fill Line Trenching	8/8/23	Mark/Roger Redding - Spools to be provided by 8/2/23. Roger to trench and lay line by 8/4/23
35%	*Tank Modifications - Inlet / outlet modifications*	9/29/23	*Only modification needed is to the inlet line at top of tank. Upsize to 6 line. Piping is at coaters (9/20). Overflow (2) located at last two tanks will be upsized to 4" and a flapper will be installed on each outlet to meet regulations (9/20 completion)*
0%	*Tank Modifications - Venting caps*	*9/29/23*	*Venting Caps ordered ordered do not work, manufacturer insists they are the right caps but they do n ot fit properly. Going to do tank mod to creat a separate vent.*
75%	Poly Tank Waiver - Tank Plans & Spec, Pictures of vent lids installed,	10/6/23	Amy - Plans and Specs pulled, completing questionnaire, need pics of completed modifications (vents, transducer, etc) anticipated
0%	Clean and disinfect the inside of the tanks	10/6/23	Mark - check inside of each tank to determine if all or some need to be cleaned before disinfection.
100%	Overflow Line Modification	9/20/23	Complete 9/20 per Ben at status meeting. Hydrocurrent - upsize to 4" with flappers to meet regulations
65%	Connect Tank System to SCADA	9/29/23	Transducer installed and PLC built and connected to VFD.

% done	Phase	Due By	Notes
35%	Booster Pumps - parts ordered / received? 2 pumps, VFD control panel, Suction & Discharge Manifold, Pressure Transducer with test valve, Transducer with filter, Pump Station Electrical, Underground conduit (pole to meter (#5) meter to pump station,		Hydrocurrent - original 6 week lead time now 12 weeks. Ben to obtain letter from manufacturing stating such. Plan is to have all moving parts installed so that all that needs to happen when pumps are delivered is to set pumps and connect to electrical. Hydrocurrent to install 3 pressure transducers. Pump cans received and being coated. VFD is installed
0%	Concrete Equipment Pad for Pump Station	9/29/23	Hydrocurrent- booster pump cans have to be set and then the concrete poured around them. This will happen as soon as cans are received around end of August. The pad for the SDG&E meter and the CL2 station will be poured at the same time. SDG&E will not upgrade electrical until booster pumps and well pumps arer installed and pass County inspection.
25%	Booster Pumps Connected to SCADA	8/31/23	Tran Solutions - Tom currently building PLC panel. duplicate costs for well and pressure transducer? Needs VFD to test
15%	Nitrate & CL2 Analyzer install & SCADA connection	8/25/23	Tran Solutions - Tom building PLC panels. Al parts for CL2 analyzer have been ordered. Tom meeting with Matt to inventory Nitrate partes and order what we need. Tom will have ETA on parts arrival 8/2/23
100%	Dimensions of CL2 Analyzer Containment area and quote for cement pad	9/29/23	Concrete pad size and location determined. Concrete Pad to be poured on 9/29/23 with other concrete work.
0%	If the CL2 Analyzer Containment area needs to be fenced / gated and locked please obtain quote / pricing for this also.	9/22/23	Mark to remove current fencing and rollback the chain link for reuse. Once the analyzers, booster pumps, etc. is complete. Fenced area will be enlarged and two gates installed for easy acces to pumps and analyzer equipment.
50%	CL2 & Nitrate Analyzer Parts and installation	10/6/23	Mark - Using Schoepe tank. Mark verifying all analyzer equipment is receive and on hand for installation.
100%	Installation of discharge line to Yuima main	Complete	Mark
100%	Hot Tap Connection to Yuima Main	Complete	Mark
95%	Title 22 Water Sample	8/15/23	Mark / Lynette / Amy Pull sample as soon as pump is set in well
30%	Drinking Water Source Assessment - NV5		NV5 PO completed Well Pump Specifications - provided 6/26/23 Pump Testing Data - Need to Run pump test ASAP (scheduled for 9/26). Water Quality Data - ***Title 22 has been taken, awaiting results*** Location (Google pin works) - Provided 6/26/23
15%	Yuima Operating System Permit Amendment Approval		Amy/Mark/Lynette
0%	Follow-up		
0%	Follow-up		
0%	Follow-up		

RAINFALL RECORD 2023/2024 YUIMA SHOP

Location: 34928 Valley Center Road, Pauma Valley @ **1050' elevation**

	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20		1.72										
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

													TOTAL YEAR
TOTALS	0.00	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72
1987/88 (B)	0.00	0.00	0.00	2.60	4.17	1.20	2.97	2.23	0.97	6.95	0.40	0.00	21.49
1988/89 (B)	0.00	1.25	0.00	0.00	1.36	4.78	1.38	3.25	0.60	0.25	0.43	0.00	13.30
1989/90 (B)	0.00	0.00	1.03	0.50	0.00	0.55	4.45	2.65	0.92	3.22	0.95	1.10	15.37
1990/91	0.32	0.93	0.00	0.16	0.83	0.85	1.30	2.60	13.10	0.20	0.00	0.00	20.29
1991/92	0.70	0.00	0.40	0.85	0.30	1.90	3.25	5.60	5.30	0.15	0.50	0.00	18.95
1992/93	0.00	1.75	0.00	1.55	0.00	5.10	17.25	8.60	1.55	0.00	0.00	0.70	36.50
1993/94	0.00	0.00	0.00	0.25	2.35	0.90	1.20	4.60	5.30	2.00	0.20	0.00	16.80
1994/95	0.00	0.00	0.00	0.40	0.80	0.75	9.35	3.00	9.40	2.00	0.75	1.10	27.55
1995/96	0.10	0.00	0.00	0.00	0.20	0.85	1.50	3.50	2.30	0.50	0.00	0.00	8.95
1996/97	0.00	0.00	0.00	0.00	4.55	2.40	6.35	0.75	0.00	0.00	0.00	0.00	14.05
1997/98	0.00	0.00	2.10	0.10	2.45	2.10	3.70	10.95	4.05	3.30	3.05	0.15	31.95
1998/99	0.00	0.00	1.15	0.00	2.45	1.36	1.93	1.00	0.80	2.32	0.05	0.50	11.56
1999/2000	0.25	0.00	0.10	0.00	0.10	0.25	0.60	5.20	1.55	0.95	0.45	0.00	9.45
2000/2001	0.00	0.00	0.05	0.98	0.45	0.00	2.80	6.20	1.70	1.70	0.50	0.00	14.38
2001/2002	0.00	0.00	0.00	0.00	1.35	1.90	0.60	0.15	1.80	0.65	0.00	0.00	6.45
2002/2003	0.00	0.00	0.20	0.00	2.85	3.60	0.25	6.40	3.45	2.10	0.65	0.00	19.50
2003/2004	0.00	0.40	0.00	0.00	1.55	1.55	0.70	4.25	0.75	1.05	0.00	0.00	10.25
2004/2005	0.00	0.40	0.00	7.20	1.55	4.55	8.70	6.60	1.75	1.05	0.10	0.00	31.90
2005/2006	0.50	0.00	0.10	1.85	0.00	0.50	1.75	2.45	3.55	2.65	0.50	0.00	13.85
2006/2007	0.00	0.20	0.30	0.40	0.05	1.40	0.50	2.70	0.30	0.80	0.10	0.00	6.75
2007/2008	0.00	0.25	0.00	0.20	0.50	5.30	5.80	3.80	0.60	0.00	1.00	0.00	17.45
2008/2009	0.00	0.00	0.00	0.00	1.60	4.95	0.05	4.45	0.30	0.75	0.00	0.00	12.10
2009/2010	0.00	0.00	0.00	0.00	1.10	3.65	7.45	4.00	0.55	2.60	0.00	0.00	19.35
2010/2011	0.20	0.00	0.00	3.15	1.45	8.60	1.25	4.40	2.65	0.30	0.40	0.05	22.45
2011/2012	0.00	0.00	0.15	0.65	2.65	1.20	1.15	2.05	2.25	3.15	0.10	0.00	13.35
2012/2013	0.00	0.00	1.50	0.40	0.45	2.70	1.50	1.25	1.70	0.10	0.40	0.00	10.00
2013/2014	0.28	0.00	0.00	1.48	0.15	0.40	0.25	0.95	2.95	0.80	0.00	0.00	7.26
2014/2015	0.00	0.20	1.00	0.00	1.00	4.90	0.70	0.90	1.60	0.75	1.20	0.50	12.75
2015/2016	1.90	0.30	1.70	0.35	0.90	2.65	3.40	1.15	1.50	0.75	0.40	0.00	15.00
2016/2017	0.00	0.00	1.00	0.16	1.75	4.37	7.17	6.05	0.20	0.00	1.34	0.00	22.04
2017/2018	0.07	0.12	0.13	0.00	0.00	0.00	3.18	0.88	2.55	0.01	0.12	0.00	7.06
2018/2019	0.00	0.00	0.00	1.27	2.51	1.63	2.34	7.98	1.68	0.40	1.83	0.12	19.76
2019/2020	0.00	0.00	0.30	0.00	4.17	2.46	0.17	0.64	5.39	5.96	0.03	0.20	19.32
2020/2021	0.00	0.00	0.00	0.07	1.52	0.79	1.09	0.06	1.55	0.51	0.10	0.02	5.71
2021/2022	1.27	0.30	0.17	0.99	0.00	4.16	0.31	0.53	2.26	0.20	0.19	0.00	10.38
2022/2023	0.00	0.00	1.31	0.55	1.96	1.48	8.01	1.02	5.87	0.04	0.67	0.33	21.24
35 Year Average	0.16	0.17	0.36	0.75	1.40	2.45	3.27	3.51	2.65	1.38	0.47	0.14	16.70

Yuima Municipal Water District - Production/Consumption Report

YUIMA GENERAL DISTRICT			FISCAL		CALENDAR	
Produced and Purchased Water	Aug-23	Jul-23	2023-24	2022-23	2023	2022
11-1590 IDA	0.0	0.0	0.0	22.0	0.0	22.0
10-1009 SDCWA	452.3	612.0	1064.3	3729.0	1966.4	4850.5
10-1001 SCHOEPE	0.0	0.0	0.0	17.3	0.2	56.0
Total Produced and Purchased	**452.3**	**612.0**	**1064.3**	**3768.3**	**1966.6**	**4928.5**
Consumption						
CUSTOMERS GENERAL DISTRICT	180.1	227.5	407.6	1393.0	757.3	1780.4
10-2100 TAP 1	89.2	148.0	237.2	803.8	455.7	1122.2
10-1590 TAP 2	120.2	129.7	249.9	983.7	407.7	1222.4
10-1200 TAP 3	76.1	113.1	189.2	656.8	389.3	883.8
Total Consumption - Yuima	**465.6**	**618.3**	**1083.9**	**3837.3**	**2010.0**	**5008.8**
Storage Level Changes	8.0	-3.8	4.2	-3.2	4.3	-1.0
Slippage - Acre Feet	**-5.3**	**-10.1**	**-15.4**	**-72.2**	**-39.1**	**-81.4**
Slippage %	**-1.2**	**-1.7**	**-1.4**	**-1.9**	**-2.0**	**-1.7**
IMPROVEMENT DISTRICT "A"						
Produced Strub Zone Wells						
20-2012 RIVER WELL 12	27.4	37.1	64.5	240.5	162.6	287.5
20-2091 RIVER WELL 19A	32.2	44.5	76.7	242.1	184.8	321.3
20-2020 RIVER WELL 20A	33.9	45.0	78.9	248.0	198.1	239.2
20-2025 RIVER WELL 25	36.7	45.8	82.5	137.3	99.5	281.8
20-2022 FAN WELL 22	18.6	23.9	42.5	157.5	102.5	198.6
Total Produced Strub Zone Wells	**148.8**	**196.3**	**345.1**	**1025.4**	**747.5**	**1328.4**
Produced Fan Wells						
20-2007 WELL 7A	0.0	0.0	0.0	0.0	0.0	0.0
20-2000 WELL 10	0.0	0.0	0.0	0.0	0.0	0.0
20-2014 WELL 14	0.1	11.2	11.3	105.8	12.6	230.6
20-2017 WELL 17	10.0	16.4	26.4	55.4	50.0	84.1
20-2018 WELL 18	0.0	0.0	0.0	15.5	0.0	16.9
20-2023 WELL 23	0.0	0.0	0.0	0.0	0.0	0.2
20-2024 WELL 24	0.0	0.0	0.0	42.5	0.3	62.2
20-2029 WELL 29	12.9	20.3	33.2	86.0	61.3	109.3
20-20410-500 HORIZONTAL WELLS	12.5	13.7	26.2	146.7	113.4	120.2
Code K Usage WELL USE AGREEMENTS ("K")	30.7	40.1	70.8	204.7	147.3	241.1
Total Produced Fan Wells	**66.2**	**101.7**	**167.9**	**656.6**	**384.9**	**864.6**
Total Produced Strub and Fan Wells	**215.0**	**298.0**	**513.0**	**1682.0**	**1132.4**	**2193.0**
Purchased Water						
10-2100 TAP 1	89.2	148.0	237.2	803.8	455.7	1122.2
90 minus 20-2008 TAP 2	120.2	129.7	249.9	983.5	407.5	1222.4
10-1200 TAP 3	76.1	113.1	189.2	656.8	389.3	883.8
Total Purchased Water	**285.5**	**390.8**	**676.3**	**2444.1**	**1252.5**	**3228.4**
Total Produced and Purchased	**500.5**	**688.8**	**1189.3**	**4126.1**	**2384.9**	**5421.4**
Consumption						
CUSTOMERS IDA	468.7	652.4	1121.1	3820.0	2184.1	5141.9
Interdepartmental to Y	0.0	0.0	0.0	22.0	0.0	22.0
Total Consumption - IDA	**468.7**	**652.4**	**1121.1**	**3842.0**	**2184.1**	**5163.9**
Storage Level Changes	5.6	-6.3	-0.7	0.6	0.0	2.6
Slippage - Acre Feet	**37.4**	**30.1**	**67.5**	**284.7**	**200.8**	**260.1**
Slippage %	**7.5**	**4.4**	**5.7**	**6.9**	**8.4**	**4.8**
Combined General District and IDA						
PRODUCED YUIMA	452.3	612.0	1064.3	3768.3	1966.6	4928.5
PRODUCED IDA	215.0	298.0	513.0	1682.0	1132.4	2193.0
Total Produced and Purchased	**667.3**	**910.0**	**1577.3**	**5450.3**	**3099.0**	**7121.5**
Consumption	**648.8**	**879.9**	**1528.7**	**5235.0**	**2941.4**	**6944.3**
Storage Level Changes	13.6	-10.1	3.5	-2.6	4.3	1.6
Slippage - Acre Feet	32.1	20.0	52.1	212.5	161.7	178.8
Slippage %	4.8	2.2	3.3	3.9	5.2	2.5

Notes: Horizontal wells to creek 5.3 acft Usage estimated for Wells 44-50 Aug 2023

Yuima Municipal Water District

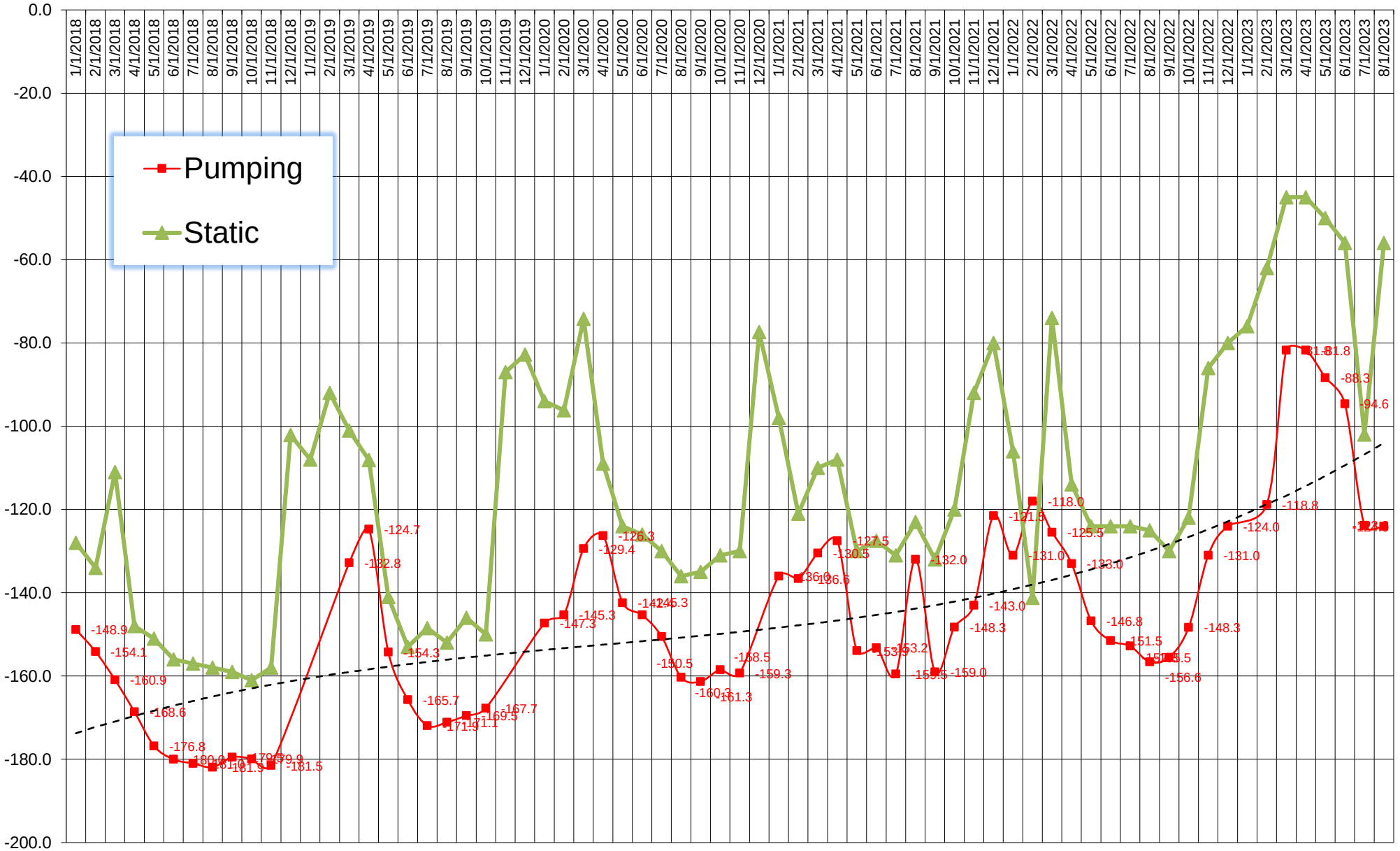
River Well Static (21A) and Pumping Levels

For Yuima Wells No. 12, 19A, 20A and 25

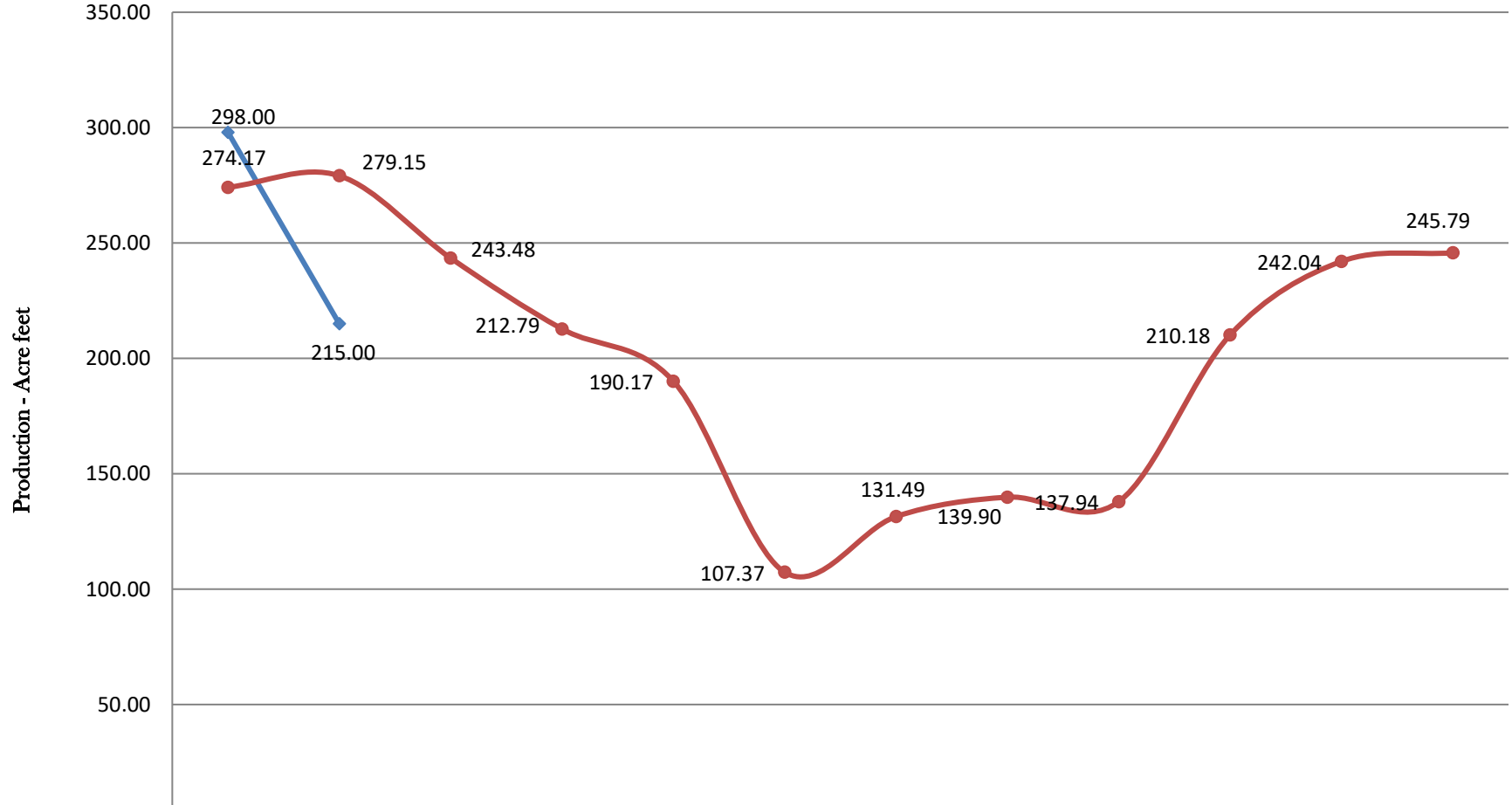
(Increasing Inverse = improving water levels)

Pumping and Static Levels (feet below ground level)

(Updated August 2023) 2018-Current



Yuima Municipal Water District
Monthly Production of District Owned Wells
Updated August 2023



	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
FY 2023/24	298.00	215.00										
15-Yr Avg.	274.17	279.15	243.48	212.79	190.17	107.37	131.49	139.90	137.94	210.18	242.04	245.79

YUIMA MUNICIPAL WATER DISTRICT

Well Level Report

(* static level with surrounding wells off 24 hrs)	July 2023			August 2023			September 2023			October 2023			November 2023			December 2023		
	Static Level	Pumping Level	GPM	Static Level	Pumping Level	GPM	Static Level	Pumping Level	GPM	Static Level	Pumping Level	GPM	Static Level	Pumping Level	GPM	*Static Level	Pumping Level	GPM
Monitor Well No. 21A Elev 800' Depth 251'	102			56		261												
Well No. 12 (River) Elev 800' Depth 207'		122	246	47	123	299												
Well No. 19A (River) Elev 800' Depth 215'		118	299	55	118	299												
Well No. 20A (River) Elev 800' Depth 225'		105	299	50	108													
Well No 25 (River) Elev 805' Depth 210'		150	336	52	147	336												
Well No. 3 (Fan) Elev 1220' Depth 547'																		
Well No. 7A (Fan) Elev 1240' Depth 554'																		
Well No. 8 (Fan) Elev 1227' Depth 1000'																		
Well No. 9 (Fan) Elev 1252' Depth 436'																		
Well No. 10 (Fan) Elev 1210' Depth 405'																		
Well No. 13 (Fan) Elev 1280' Depth 403'																		
Well No. 14 (Fan) Elev 1310' Depth 542'		348	329	281														
Well No. 17 (Fan) Elev 1375' Depth 597'		367	121	320	352	123												
Well No. 18 (Fan) Elev 2380' Depth 1000'																		
Well No 22 (Fan) Elev 997.4' Depth 1100'		208	161	182	207	160												
Well No. 23 (Fan) Elev 1587' Depth 963'	125	330		124														
Well No. 24 (Fan) Elev 1530' Depth 582'	255	348	129	247														
Well No. 29 (Fan) Elev 1314' Depth 450'		307	132	270	292	151												
Well No. 41 (Horizontal) Elev 2627' Depth 555'			18.8			18.2												
Well No. 42 (Horizontal) Elev 2632' Depth 675'			33.9			32.5												
Well No. 44 (Horizontal) Elev 3040' Depth 465'						3.9												
Well No. 45 (Horizontal) Elev 2900' Depth 845'																		
Well No. 46 (Horizontal) Elev 3050' Depth 870'						10.6												
Well No. 47 (Horizontal) Elev 3050' Depth 1007'						4.3												
Well No. 48 (Horizontal) Elev 3160' Depth 785'						1.9												
Well No. 49 (Horizontal) Elev 3160' Depth 905'						10.4												
Well No. 50 (Horizontal) Elev 3120' Depth 1215'						13.3												
Schoepe No. 2 (River) Elev 700' Depth 253'																		
Schoepe No. 3 (River) Elev 700' Depth 265'																		
Schoepe No. 3-R (River) Elev 700' Depth 200'																		
Schoepe No. 4 (River) Elev 700' Depth 185'																		
Schoepe No. 5 (River) Elev 700' Depth 1000'																		

YUIMA MUNICIPAL WATER DISTRICT

REPORT OF DISTRICT WATER PURCHASED AND PRODUCED

	Month Comparative One (1) Year Ago			Fiscal Year to Date Comparatives		
	Aug-23	Aug-22	%CHANGE	2023/24	2022/23	%CHANGE
LOCAL SUPPLY	215.0	226.0	-4.9%	513.0	452.0	13.5%
AUTHORITY	452.3	783.3	-42.3%	1064.3	1403.6	-24.2%
TOTAL PRODUCED & PURCHASED	667.3	1009.3	-33.9%	1577.3	1855.6	-15.0%
CONSUMPTION	648.8	996.3	-34.9%	1528.7	1823.8	-16.2%
% LOCAL	32.2%	22.4%	9.8%	32.5%	24.4%	8.2%
%AUTHORITY	67.8%	77.6%	-9.8%	67.5%	75.6%	-8.2%

FISCAL YEAR ENDING JUNE 30 COMPARATIVES

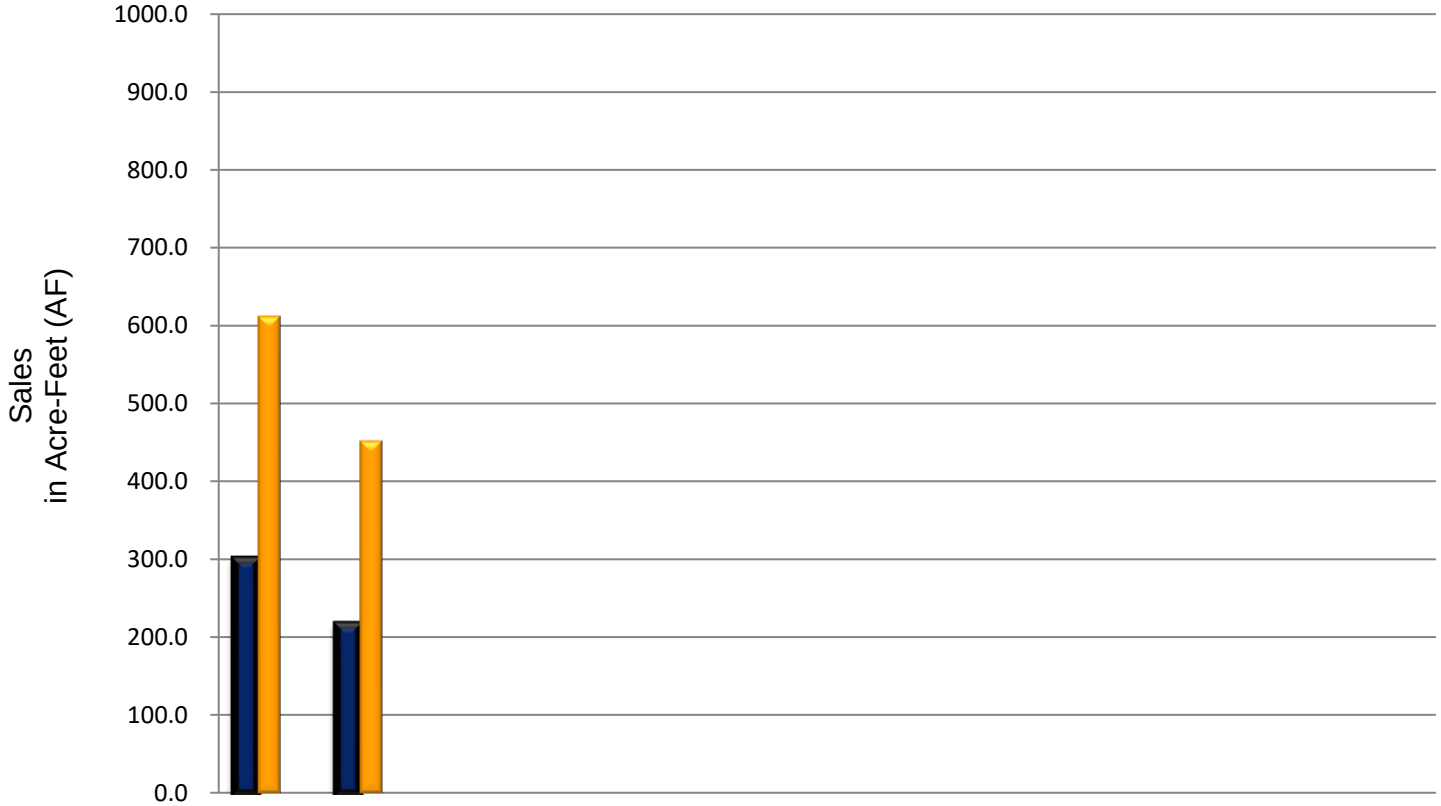
	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
LOCAL SUPPLY	1682.0	2295.2	2571.6	2311.7	1688.5	2107.5	2058.1	2334.3	2726.6	3145.7	4199.9	4353.8	3356.5	2858.8	3729.7
AUTHORITY SUPPLY	3768.3	5151.2	5610.9	4684.7	4819.6	4780.9	4470.6	3621.1	4468.4	4596.1	2149.3	1183.6	1617.7	2521.8	2347.0
TOTAL PRODUCED & PURCHASED	5450.3	7446.4	8182.5	6996.4	6508.1	6888.4	6528.7	5955.4	7195.0	7744.8	6349.2	5537.4	4974.2	5380.6	6076.7
CONSUMPTION	5235.0	7176.2	7879.3	6727.3	6351.1	6629.8	6379	5887.8	7175.6	7591.1	6310.3	5486.9	4959.0	5310.8	5909.0
% LOCAL	30.9%	30.8%	31.4%	33.0%	25.9%	30.6%	31.5%	39.2%	37.9%	40.6%	66.1%	78.6%	67.5%	53.1%	61.4%
% AUTHORITY	69.1%	69.2%	68.6%	67.0%	74.1%	69.4%	68.5%	60.8%	62.1%	59.4%	33.9%	21.4%	32.5%	46.9%	38.6%

ds/excel/waterpurchasedand
produced

YUIMA MUNICIPAL WATER DISTRICT

WATER PRODUCED & PURCHASED

2023-24



	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
LOCAL SUPPLY PRODUCED	298.0	215.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AUTHORITY PURCHASED	612.0	452.3										
TOTAL PROD/PURCH	910.0	667.3										

YUIMA MUNICIPAL WATER DISTRICT
DELINQUENT ACCOUNTS LISTING
8/31/2023

YUIMA

ACCOUNT NUMBER	PAST DUE AMOUNT	ACTION
01-0650-03	4,220.65	Notice
01-0688-06	90.56	Notice
01-0690-08	214.58	Notice
01-1044-01	46.00	Notice
01-1055-02	69.60	Notice
01-1061-03	101.29	Notice
01-1062-10	135.35	Notice
01-1198-01	306.86	Notice
01-1351-07	326.86	Notice
01-1359-01	306.09	Notice
01-1599-00	458.80	Notice
01-2097-00	926.03	Notice
	$ 7,202.67	

IDA

ACCOUNT NUMBER	PAST DUE AMOUNT	ACTION
02-0845-03	237.64	Notice
02-0906-03	204.38	Notice
02-2236-02	2,478.81	Notice
02-2455-04	100.60	Notice
02-2471-04	237.86	Notice
02-2530-01	145.18	Notice
02-2984-09	347.00	Notice
02-3460-07	132.53	Notice
02-3957-04	8,972.69	Notice
02-4005-02	282.84	Notice
02-4175-01	337.86	Notice
02-4185-01	93.98	Notice
02-5330-09	216.47	Notice
02-6500-00	1,783.61	Notice
02-6657-00	556.78	Notice
02-7125-00	197.45	Notice
02-7248-02	226.49	Notice
02-7249-01	444.41	Notice
02-7842-03	1,340.28	Notice
02-7891-04	61.86	Notice
02-7948-04	1,637.44	Notice
02-8445-00	47.35	Notice
02-9402-02	352.99	Notice
	$ 20,436.50	

LIENS FILED / TRANSFERRED TO TAX ROLL

for liens filed and transfer to tax roll:
July agenda
auditor and controller by Aug 10th