Regular Meeting
August 21, 2018
6:00 p.m.

MEINERS OAKS WATER DISTRICT
VENTURA COUNTY SINCE 1949
(805) 646-2114
"WATER IS PRECIOUS"
202 WEST EL ROBLAR DRIVE

NOTICE OF REGULAR MEETING OF

BOARD OF DIRECTORS

August 21, 2018

Right to be heard: Members of the public have a right to address the Board directly on any item of interest to the public that is within the subject matter jurisdiction of the Board, provided that no action shall be taken on any item not appearing on the agenda unless the action is otherwise authorized by subdivision (b) of Section 54954.2.

Please Note: If you have comments on a specific agenda item(s), please fill out a comment card and return it to the Board Secretary. The Board President will call on you for your comments at the appropriate time, either before or during the Board's consideration of that item.

If you require special accommodations for attendance at or participation in this meeting, please notify our office 24 hours in advance at (805) 646-2114 (Govt. Code Section 94594.1 and 94594.2 (a))

Agenda

Meeting will be called to order at 6:00 p.m.

1. **Roll Call**

2. **Approval of Minutes July 17, 2018 Regular Meeting**

3. **Public Comments**

   The Board will receive comments from the public at this time on any item of interest to the public that is not on the agenda that is within the subject matter jurisdiction of the legislative body, provided that no action shall be taken on any item not appearing on the agenda unless the action is otherwise authorized by subdivision (b) of Section 54954.2. Matters raised by public comment requiring Board action will be referred to staff or placed on a subsequent agenda where appropriate.

   When addressing the Board, please state your name and address and limit your comments to three (3) minutes.

   Please Note: If you have comments on specific agenda items, please fill out a comment card and return it to the Board Secretary. The Board President will call on you for your comments at the appropriate time, either before or during the Board's consideration of that item.

4. **Financial Matters**

   - **Approval of Payroll and Payables from July 16 to August 15, 2018 in the amount of:**

     Payables – $ 82,532.63

     Payroll – $ 31,211.46

     Total – $ 113,744.09

5. **Board Discussion and/or Action**

   a) **Consideration and approval for a cost-of-living increase of 4%**

   b) **Consideration and approval for the District to increase its contribution rate for dependent medical insurance (only) from 55% to 75%**

   c) **Discussion of Potential Structures for UVRGA Technical Advisory Committee(s)**

   d) **Letter from Steve Alary on behalf of the property owner of 606 S. Rice Rd and District response to a request for a new water service.**

   e) **Call for nominations for a Board member and alternate on LAFCO**

   f) **New Allocation and Rate Program**

   g) **General Manager's evaluation**

6. **General Manager's Report**

   - **District O& M Report**
   - **Board Standing Committees – Table included**
   - **Wells 1, 2, and 4 Update (Documents included)**
   - **Economic Study Meeting – Consultant interviews to be held on Wednesday Aug. 29th from 8:30 am – 12:30 pm at the M.O. Board Room**
   - **Casitas MOU**

7. **Board Committee Reports**

   - **GSA Meeting – GSA dark this month**

8. **Old Business**

   - **State Water – Public Statement of Support**
   - **Ojai Valley Water Group Update**
   - **Matilija Dam Removal Update**
   - **Cold Water Formation (Documents included in your packet)**
   - **Generators**

9. **Board of Directors Reports/Comments**

10. **Closed Sessions: The Board of Directors will hold a closed session to discuss personnel matters or litigation, pursuant to the attorney/client privilege, as authorized by Government Code Section 54957 & 54956.8, 54956.9 and 54957.**

    - **General Manager Evaluation – 54957 (b)(1)(2)**

11. **Meeting Adjournment.**

Regular Meeting
July 17, 2018
6:00 p.m.

Meiners Oaks Water District
202 West El Roblar Drive
Ojai, CA 93023-2211
Phone 646-2114

MINUTES

The meeting was called to order at 6:00 p.m.

1. Roll Call

The meeting was called to order by the Board President Mike Etchart at 6:03 pm at the District Office.

Present were: Board President Mike Etchart, Board Directors, Jim Kentosh, Diana Engle and Larry Harrold. Staff Present: General Manager Mike Hollebrands and Board Secretary Summer Ward. Attorney Lindsay Nielson was also present.

Absent: Board Director Mike Krumpschmidt

2. Approval of the minutes

Approval of the June 19, 2018, Regular Meeting and June 27, 2018, Special Meeting minutes:

Ms. Engle made the motion to approve the June 19, 2018, Regular Meeting minutes and the June 27, 2018, Special Board Meeting minutes. Mr. Harrold seconded the motion.

Engle/Harrold
All Ayes
M/S/C

3. Public Comments

Ms. Von Gunten – Provided a statement of attendance and past participation on the MOWD Board. Ms. Von Gunten expressed dissatisfaction with being required to stand at the lectern to speak.

4. Financial Matters

- Approval of Payroll and Payables from June 16th to July 15th, 2018 in the amount of:

Payables -	$ 296,650.11
Payroll -	$ 31,228.77
Total -	$ 327,878.88

Mr. Harrold made the motion to approve the Payroll and Payables from June 16th to July 15th, 2018. Mr. Kentosh seconded the motion.

Mr. Kentosh requested clarification on the board approval of the $25,000 to the GSA. Mr. Hollebrands explained this was the second installment of the $50,000 the board approved in 2017.
Ms. Engle noted the MOWD invoice payments sum to $49,000 versus $50,000 owed to the GSA. Staff to verify invoice amounts to the GSA.

Public Comment – None.

Harrold/Kentosh
All Ayes
M/S/C

The Board closed the open session at 6:22 p.m.

5. Closed Session: The Board of Directors will hold a closed session to discuss personnel matters or litigation, pursuant to the attorney/client privilege, as authorized by Government Code Sections 54957 & 54956.8, 54956.9 and 54957.

a. CONFERENCE WITH LEGAL COUNSEL and POTENTIAL CO-COUNSEL – Anticipated/threatened Litigation Paragraphs (2,4) subdivision (d) Section 54956.9.District properties and associated water rights.

b. CONFERENCE WITH LEGAL COUNSEL – Existing Litigation Paragraph (1) subdivision (d) Section 54956.9. Conference regarding State Case: SBCK vs. SWRCB, San Francisco Superior Court, Case # CPF-14-513875.

At 7:15 p.m. the board closed the closed session and re-opened the open session.

Mr. Nielson stated that in closed session they discussed litigation matters with Attorney Greg Jones, related to easement rights and the decision was made to proceed with legal action. There was no discussion related to item 6b.

6. General Manager's Report

- Operations & Maintenance Report – Mr. Hollebrands stated that Diener's Electric has begun working wells 4 and 7 motor controls and VFDs. The District must be careful with blending MOWD and Casitas water, as the treatments are different. The work on wells 4 and 7 is expected to be complete at the end of July or early August.

- Board Standing Committees – Mr. Hollebrands stated that he was reviewing the standing board committees and would like to draft a

quarterly schedule for each committee. The board requested that Mr. Hollebrands draft the schedule for review at the August Regular Board meeting.

Public Comment –
Ms. Von Gunten stated that she is in support of publishing a schedule for the standing committees.

- Well 4 update – Mr. Hollebrands stated that the District expects to have well 4 completed within the next few weeks, at that point we will be able to turn off the Casitas connection.

- Economic Study Meeting- Update of consultant interviews July 16, 2018– Ms. Engle to update during item 10.

- Casitas MOU– Mr. Hollebrands stated that Steve has been out of the office and will return next week.

- 30-Year CUP – Mr. Hollebrands reported that the Districts 30-Year Conditional Use Permit for 2680 Maricopa Highway was granted by the Ventura County Board of Supervisors.

7. Board Discussion/Actions

a) Approval of the draft budget for fiscal year 2018-19 and Budget Resolution 20180717-1.
Mr. Hollebrands presented the draft budget along with the support from the Board Budget Committee members Harrold and Etchart. Discussions included a review of increased expenditures based on salary adjustments, capital projects and anticipated legal fees, worker's compensation decreased and the five year phased rate increased for MOWD water availability charge. Revenues projected do not include fees or penalties such as drought surcharges.
Mr. Harrold made the motion to approve the fiscal year 2018-19 budget and Budget Resolution 20180717-1. Mr. Kentosh seconded the motion.
Public Comment – None.

Roll Call vote: Etchart – Aye, Kentosh – Aye, Krumpschmidt – Absent., Harrold – Aye, Engle – Aye.
All Ayes
M/S/C

b) Approval of General Election Resolution 20180717, requesting MOWD be consolidated in the General Election.
Mr. Hollebrands presented the Election Resolution 20180717, Ms. Ward provided Mr. Etchart, Mr. Kentosh and Mr. Harrold with their re-election form and CD of County provided forms, due date August 10, 2018.

Ms. Kentosh made the motion to approve the General Election Resolution 20180717. Mr. Harrold seconded the motion.

Public Comment – None.

Roll Call Vote: Etchart – Aye, Kentosh – Aye, Krumpschmidt – Absent, Harrold – Aye, Engle – Aye.
All Ayes
M/S/C

c) Discussion and approval of well contractor proposals to pull, inspect, and video wells 1 and 2.
Mr. Hollebrands reviewed that well 1 has having wobbling issues, involving the whole motor and well 2 sounded as if it was grinding marbles. Mr. Hollebrands included bids for assessing both wells. The contractor bids reviewed were General Pump, Layne Christensen, and Precision Hydro. Mr. Hollebrands recommended General Pump, the District has not worked with them in the past, however, they are based out of Camarillo and have done a lot of reputable work locally and statewide, they also came in with the lowest bid. General Pump will provide a report of findings as well as recommendations for a second bid process.

Ms. Engle made the motion to approve the General Pump contract proposal to pull, inspect and video wells 1 and 2. Mr. Kentosh seconded the motion.

Public Comment – None

Engle/Kentosh
All Ayes (Krumpschmidt Absent)
M/S/C

8. Board Committee Reports

- GSA (7/12/2018) –Ms. Engle reviewed two topics of discussion.
    - The GSA reviewed several bids for hiring a Fee Consultant, seeking an expert firm to assist with setting the various pumping fees for the GSA.
    - The city of Ventura, et al. are looking at different models for the Tech Advisory Committee (TAC).

The Board will discuss options for the TAC at the August Regular Board meeting.

9. Old Business

- State Water/MOWD public statement of support – Mr. Hollebrands stated that the approved Op-Ed was submitted to the Ojai Valley News and invoices were mailed to the 3 other agencies for the shared cost of the article. The article was published in the OVN June 29, 2018. The placement of the article was not ideal, it will be included in the July 31st billing statements.

- Ojai Valley Water Group – No update

- Matilija Dam Removal – No update

- Cold Water Formation – Mr. Hollebrands stated that Jordan Kear, Hydrogeologist recommended drilling down the old well 4 with a 6" bit down to 3,000 ft. to see if it could produce water, rather than evaluating a new site.

  The Board would like to seek bids for this project at the August Regular Board meeting. Additionally, Mr. Kentosh and Ms. Engle would like to review the Cold Water Formation report that Jordan has submitted previously to the District, as well as get a second Hydrogeologist's opinion of the site.

- Generators – No update

10. Board of Directors' Reports

Mr. Krumpschmidt – Absent.

Mr. Etchart – None.

Mr. Kentosh – Mr. Kentosh shared a personal experience at his home with a main line leak that he feels sympathy for others that have to make leak repairs, he installed a bypass and it has taken him a month to complete the repair.

Mr. Harrold – Asked if anyone had any updates on the "El Nino" predictions. NOAA's last report showed 60% probability of an El Nino season.

Ms. Engle – Ms. Engle stated that she has attended several meetings and she requested that the next bill message include the meter read dates. Additionally, Ms. Engle has briefly discussed with Jeff at the Sanitary District a special connection for our well 8 (high nitrate levels). Ms. Engle also referred to the Economic Study led by Burt from Ventura River Water District, he is estimating the budget for the study to be around $30,000. She noted some concerns about the RFP and customer water use data privacy.

11. Meeting Adjournment

There being no further business to conduct at this time, Board President Mike Etchart adjourned the meeting at 8:13 PM.

_____
President

_____
Secretary

Check Report

Meiner's Oaks County Water District, CA

By Vendor Name

Date Range: 07/16/2018 - 08/15/2018

Vendor Number / Payable #	Vendor Name / Payable Type	Post Date	Payment Date / Payable Description	Payment Type	Discount Amount / Discount Amount	Payment Amount / Payable Amount	Number
Bank Code: AP Bank-AP Bank							
AWAVC	Association of Water Agencies		07/27/2018	Regular	0.00	75.00	8212
CCWUC1819	Invoice	07/26/2018	2018/2019 Membership		0.00	75.00	
AWAVC	Association of Water Agencies		08/13/2018	Regular	0.00	105.00	8232
06-11026	Invoice	07/25/2018	CCWUC Luncheon		0.00	105.00	
AT&T	AT&T		07/27/2018	Regular	0.00	119.10	8213
01840718	Invoice	07/13/2018	Office Phone		0.00	119.10	
AT&T	AT&T		08/13/2018	Regular	0.00	522.81	8233
08330718	Invoice	07/19/2018	Office Phones		0.00	522.81	
CALPERS	California Public Employees' Retirement		07/26/2018	Bank Draft	0.00	350.60	DFT0000473
072618	Invoice	07/16/2018	Retired Premium		0.00	350.60	
CALPERS	California Public Employees' Retirement		07/27/2018	Bank Draft	0.00	2,698.45	DFT0000481
INV0000963	Invoice	07/31/2018	Health		0.00	2,698.45	
CALPERS	California Public Employees' Retirement		08/13/2018	Bank Draft	0.00	2,698.49	DFT0000493
INV0000974	Invoice	08/15/2018	Health		0.00	2,698.49	
CAL-STATE	Cal-State		08/13/2018	Regular	0.00	101.36	8234
107989	Invoice	07/21/2018	Portable Toilet		0.00	101.36	
CMYERS	Casey Myers Equipment		07/27/2018	Regular	0.00	1,200.00	8214
10600	Invoice	07/13/2018	Debris Removal from Meyer Rd.		0.00	1,200.00	
CMWD	Casitas Municipal Water District		08/13/2018	Regular	0.00	6,973.68	8235
261150718	Invoice	07/31/2018	Fairview Standby		0.00	530.70	
261150718-2	Invoice	07/31/2018	Fairview Purchased Water		0.00	5,939.28	
262000718	Invoice	07/31/2018	Hartmann Allocation		0.00	134.78	
911320718	Invoice	07/31/2018	Tico & La Luna Standby		0.00	368.92	
CLEANCO	Cleancoast Janitorial		08/13/2018	Regular	0.00	300.00	8236
1037	Invoice	08/03/2018	July 2018 Janitorial		0.00	300.00	
CIT	Coastal Instrumentation & Telemetry		07/27/2018	Regular	0.00	450.00	8215
18-012	Invoice	07/01/2018	SCADA Programming		0.00	450.00	
COVPD	County of Ventura Planning Divsion		07/27/2018	Regular	0.00	500.00	8216
265058	Invoice	07/25/2018	Compliance Review/Inspections		0.00	500.00	
CVTDEP	County of Ventura Transport. Dept.		08/13/2018	Regular	0.00	1,815.00	8237
265257	Invoice	07/27/2018	479 W. Lomita		0.00	315.00	
265258	Invoice	07/27/2018	491 W. Lomita		0.00	315.00	
265272	Invoice	07/30/2018	578 El Sol		0.00	870.00	
265396	Invoice	07/31/2018	Lomita Ave.		0.00	315.00	
VCRMA	County of Ventura, RMA		08/13/2018	Regular	0.00	295.55	8238
041635	Invoice	07/23/2018	CUP		0.00	30.76	
041762	Invoice	07/23/2018	CUP		0.00	1.35	
IN0179139	Invoice	07/26/2018	Cross Connection Contract		0.00	263.44	
DATAP	Dataprose LLC		08/13/2018	Regular	0.00	939.76	8239
DP1802499	Invoice	07/31/2018	Billing & Postage		0.00	939.76	

Vendor Number / Payable #	Vendor Name / Payable Type	Post Date	Payment Date / Payable Description	Payment Type	Discount Amount / Discount Amount	Payment Amount / Payable Amount	Number
DRAGANCHUK	Draganchuk		08/13/2018	Regular	0.00	89.85	8240
164704	Invoice	08/01/2018	Security Alarm System		0.00	89.85	
EJHAR	E. J. Harrison Rolloffs, Inc.		07/27/2018	Regular	0.00	236.35	8217
281300718	Invoice	07/12/2018	Office Trash		0.00	47.05	
994260718	Invoice	07/12/2018	3 Yard Dumpster		0.00	189.30	
EJHAR	E. J. Harrison Rolloffs, Inc.		08/13/2018	Regular	0.00	105.32	8241
2383140718	Invoice	07/31/2018	Roll Off Container		0.00	105.32	
FAMCON	Famcon Pipe and Supply, Inc		08/13/2018	Regular	0.00	17,382.28	8242
208259	Invoice	07/10/2018	Parts for Well 4		0.00	10,827.16	
208472	Invoice	07/17/2018	Parts for Well 4		0.00	2,000.21	
208863	Invoice	07/26/2018	Parts for Valve Replacement El Sol & Pala		0.00	2,765.98	
208941	Invoice	07/27/2018	Parts for Lomita Service Repair		0.00	1,128.27	
208996	Invoice	07/30/2018	Parts for Lomita Service Repair		0.00	660.66	
FGLENV	FGL Environmental		07/27/2018	Regular	0.00	1,532.00	8218
806783A	Invoice	07/20/2018	Samples		0.00	1,000.00	
808007A	Invoice	07/18/2018	Samples		0.00	85.00	
808008A	Invoice	07/18/2018	Samples		0.00	33.00	
808437A	Invoice	07/18/2018	Samples		0.00	85.00	
808733A	Invoice	07/13/2018	Samples		0.00	56.00	
808971A	Invoice	07/23/2018	Samples		0.00	141.00	
808972A	Invoice	07/23/2018	Samples		0.00	33.00	
808973A	Invoice	07/23/2018	Samples		0.00	99.00	
FGLENV	FGL Environmental		08/13/2018	Regular	0.00	3,228.00	8243
807619A	Invoice	07/16/2018	Samples		0.00	2,949.00	
808439A	Invoice	07/24/2018	Samples		0.00	42.00	
808974A	Invoice	07/24/2018	Samples		0.00	30.00	
808975A	Invoice	08/02/2018	Samples		0.00	207.00	
GUARDIAN	Guardian		07/27/2018	Regular	0.00	562.56	8210
INV0000954	Invoice	07/13/2018	Dental		0.00	281.28	
INV0000964	Invoice	07/31/2018	Dental		0.00	281.28	
GUARDIAN	Guardian		07/27/2018	Regular	0.00	10.00	8219
7690460718	Invoice	07/17/2018	Administration Fee		0.00	10.00	
HACHCO	Hach Company		07/27/2018	Regular	0.00	262.55	8220
11036166	Invoice	07/09/2018	Chlorine Reagent		0.00	262.55	
HPWP&C	Hathaway, Perrett, Webster, Powers		07/27/2018	Regular	0.00	4,270.00	8221
100645	Invoice	07/01/2018	Legal Fees		0.00	4,270.00	
HPWP&C	Hathaway, Perrett, Webster, Powers		08/13/2018	Regular	0.00	2,620.00	8244
100899	Invoice	07/31/2018	Attorney Fees		0.00	2,620.00	
HLTHNE	Health Net Life Insurance Company		07/27/2018	Regular	0.00	25.80	8222
61790718	Invoice	07/09/2018	Life Insurance		0.00	25.80	
HSBS	HealthSmart Benefit Solutions, Inc.		07/27/2018	Regular	0.00	122.92	8211
INV0000956	Invoice	07/13/2018	HSBS		0.00	61.47	
INV0000966	Invoice	07/31/2018	HSBS		0.00	61.45	
NEILSON	Law Offices of Lindsay F. Nielson		07/27/2018	Regular	0.00	206.80	8223
34880718	Invoice	07/10/2018	Attorney Fees		0.00	206.80	
LAYNECHRIS	Layne Christensen Company		08/13/2018	Regular	0.00	12,421.55	8245
92090499	Invoice	08/10/2018	New Well Pumping Equipment		0.00	12,421.55	
LIGHTNING	Lightning Ridge Screen Printing, Inc.		08/13/2018	Regular	0.00	140.14	8246
07181808K	Invoice	07/18/2018	Polo Shirts		0.00	140.14	

Check Report **Date Range: 07/16/2018 - 08/15/2018**

Vendor Number / Payable #	Vendor Name / Payable Type	Post Date	Payment Date / Payable Description	Payment Type	Discount Amount / Discount Amount	Payment Amount / Payable Amount	Number
MOHARD	Meiners Oaks Hardware		08/13/2018	Regular	0.00	599.48	8247
832967	Invoice	07/01/2018	Round File		0.00	5.85	
833554	Invoice	07/02/2018	Angle Locator		0.00	11.70	
834790	Invoice	07/10/2018	Clamp,Concrete Mix		0.00	46.44	
835325	Invoice	07/13/2018	Ear Plugs, Rags		0.00	30.49	
836226	Invoice	07/19/2018	Batteries		0.00	16.58	
836367	Invoice	07/20/2018	Spraypaint, Batteries		0.00	31.19	
836932	Invoice	07/24/2018	Torch Kit		0.00	39.03	
837074	Invoice	07/25/2018	Hose, Brass Coupling		0.00	84.89	
837147	Invoice	07/25/2018	Hose,Concrete,Brass Adapter,etc.		0.00	333.31	
MITEC	MiTec Solutions LLC		07/27/2018	Regular	0.00	313.75	8224
1048330	Invoice	07/01/2018	Remote Labor		0.00	18.75	
1048402	Invoice	07/01/2018	Monthly Maintenance		0.00	210.00	
1048911	Invoice	07/10/2018	Remote Labor		0.00	75.00	
49777	Invoice	07/15/2018	Splashtop User Account		0.00	10.00	
MITEC	MiTec Solutions LLC		08/13/2018	Regular	0.00	3,341.72	8248
1049179	Invoice	08/02/2018	Mike's New Computer		0.00	2,939.81	
1049180	Invoice	08/02/2018	Mike's New Computer Installation		0.00	180.00	
49921	Invoice	08/01/2018	Email, Web Hosting		0.00	172.91	
49994	Invoice	08/01/2018	Off Site Back Up		0.00	49.00	
NS&G	Nielsen Sand & Gravel		07/27/2018	Regular	0.00	468.76	8225
27017	Invoice	07/01/2018	Fill Sand		0.00	468.76	
NS&G	Nielsen Sand & Gravel		08/13/2018	Regular	0.00	454.64	8249
27227	Invoice	07/17/2018	Fill Sand		0.00	454.64	
OFFDEP	Office Depot		08/13/2018	Regular	0.00	20.37	8250
68327623-2	Invoice	08/10/2018	Office Supplies		0.00	20.37	
OILELE	Oilfield Electric Company, Inc.		07/27/2018	Regular	0.00	320.00	8226
2025949	Invoice	07/09/2018	Work on Well # 7		0.00	320.00	
OBC	Ojai Business Center, Inc.		08/13/2018	Regular	0.00	9.65	8251
13517	Invoice	07/31/2018	CUP Copies		0.00	9.65	
PERS	Public Employees' Retirement System		07/31/2018	Bank Draft	0.00	1,979.43	DFT0000465
INV0000955	Invoice	07/13/2018	PERS		0.00	1,979.43	
PERS	Public Employees' Retirement System		07/31/2018	Bank Draft	0.00	2,238.60	DFT0000474
INV0000965	Invoice	07/31/2018	PERS		0.00	2,238.60	
PERS	Public Employees' Retirement System		08/10/2018	Bank Draft	0.00	24.33	DFT0000482
10000001538006	Invoice	08/01/2018	Unfunded Accrued Liability		0.00	24.33	
PERS	Public Employees' Retirement System		08/10/2018	Bank Draft	0.00	1,297.04	DFT0000483
10000001538005	Invoice	08/01/2018	Unfunded Accrued Liability		0.00	1,297.04	
PERS	Public Employees' Retirement System		08/13/2018	Bank Draft	0.00	225.00	DFT0000492
INV0000973	Invoice	08/15/2018	457 Withholdings		0.00	225.00	
QUINNRNTL	Quinn Rental Services		07/27/2018	Regular	0.00	714.92	8227
06498601	Invoice	07/06/2018	Backhoe Rental		0.00	714.92	
RMM	Remy Moose Manley, LLP		07/27/2018	Regular	0.00	1,849.91	8228
109319	Invoice	07/09/2018	SBCK vc VTA		0.00	1,849.91	

Check Report **Date Range: 07/16/2018 - 08/15/2018**

Vendor Number / Payable #	Vendor Name / Payable Type	Post Date	Payment Date / Payable Description	Payment Type	Discount Amount / Discount Amount	Payment Amount / Payable Amount	Number
SCE	Southern California Edison Co.		08/13/2018	Regular	0.00	4,853.54	8252
OFFELE0818	Invoice	08/10/2018	Office Electricity		0.00	354.65	
PMP10818	Invoice	08/10/2018	Pump 1		0.00	587.50	
PMP4&70818	Invoice	08/10/2018	Pump 4 & 7		0.00	2,900.16	
TNKFRM0818	Invoice	08/10/2018	Tank Farm		0.00	26.91	
WELL0818	Invoice	08/10/2018	Well 8		0.00	165.67	
Z-20818	Invoice	08/10/2018	Zone 2		0.00	126.49	
Z-2FIR0818	Invoice	08/10/2018	Zone 2 Fire		0.00	148.34	
Z-2PWR0818	Invoice	08/10/2018	Zone 2 Power		0.00	516.52	
Z-3FIR0818	Invoice	08/10/2018	Zone 3 Fire		0.00	27.30	
SCGAS	Southern California Gas Co.		08/13/2018	Regular	0.00	2.89	8253
0004	Invoice	07/27/2018	Office Heat		0.00	2.89	
UAOFSC	Underground Service Alert of So.Ca.		08/13/2018	Regular	0.00	43.00	8254
720180434	Invoice	08/01/2018	Digalerts		0.00	43.00	
USBANK	US Bank Corporate Pmt. System		08/13/2018	Regular	0.00	606.49	8255
AIRGAS0713	Invoice	07/13/2018	Electrode Stick		0.00	90.08	
AMAZ0719	Invoice	07/19/2018	Prime Membership		0.00	13.93	
AMAZ0720	Invoice	07/20/2018	Holder for Phone		0.00	26.76	
AMAZ0723	Invoice	07/23/2018	Scan Disk		0.00	26.80	
AMAZ072318	Invoice	07/23/2018	Cameras		0.00	210.58	
AMAZON0720	Invoice	07/20/2018	Prime Membership		0.00	13.93	
ATYPACE0713	Invoice	07/13/2018	16 Contact Hours		0.00	125.00	
VONS0701	Invoice	07/01/2018	Water, Toilet Paper		0.00	25.95	
VONS0723	Invoice	07/23/2018	Water, Toilet Paper, Paper Towel		0.00	73.46	
VCC&R	Ventura County Clerk & Recorder		07/18/2018	Regular	0.00	50.00	8209
71818	Invoice	07/18/2018	NOE CEQA		0.00	50.00	
VTASTEEL	Ventura Steel		08/13/2018	Regular	0.00	47.19	8256
212045	Invoice	07/27/2018	Angle		0.00	47.19	
VERIZON	Verizon Wireless		08/13/2018	Regular	0.00	281.98	8257
9811732444	Invoice	07/26/2018	Cell Phones		0.00	281.98	
WRIGHT EXP	WEX Bank		07/27/2018	Regular	0.00	429.02	8229
55131646	Invoice	07/15/2018	Fuel		0.00	429.02	

Bank Code AP Bank Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	102	47	0.00	71,020.69
Manual Checks	0	0	0.00	0.00
Voided Checks	0	0	0.00	0.00
Bank Drafts	8	8	0.00	11,511.94
EFT's	0	0	0.00	0.00
	110	**55**	**0.00**	**82,532.63**

PR $31,211.46

Report of Income as of 7/31/2018

Income	Month of July	Year To Date	Budget Approp	Approp Bal 07/31/18
Interest	--	3,242.43	10,000.00	6,757.57
Taxes	--	735.84	150,000.00	149,264.16
Pumping Charges	--	272.62	3,300.00	3,027.38
Fire Protection	--	124.54	1,500.00	1,375.46
Meter & Inst. Fees	--	--	--	--
Water Sales	--	57,502.64	471,744.00	414,241.36
Casitas Water Sales	--	385.45	4,000.00	3,614.55
MWAC Charges	--	50,940.00	721,424.00	670,484.00
MCC Chg.	--	6,247.39	80,000.00	73,752.61
Misc. Income	--	258.04	20,000.00	19,741.96
Late & Delinquent Chgs.	--	1,063.30	20,000.00	18,936.70
Conservation Penalty	--	100.00	300.00	200.00
Capital Improvement	--	--	--	--
Drought Surcharge	--	5,218.55	60,000.00	54,781.45
	--	--	--	--
	--	--	--	--
	--	--	--	--
TOTAL INCOME	**--**	**126,090.80**	**1,542,268.00**	**1,416,177.20**

Meiners Oaks Water District

Report of Expenses and Budget Appropriations, Current Bills and Appropriations To Date

Expenditures	Month of July	Year To Date	Budget Approp	Approp Bal 07/31/18	Current August	Approp Bal To Date
Salary / Taxes	32,906.38	32,906.38	458,000.00	425,093.62	-	425,093.62
Payroll Taxes	2,493.76	2,493.76	32,500.00	30,006.24	-	30,006.24
Retirement Contributions	3,522.80	3,522.80	33,000.00	29,477.20	-	29,477.20
Group Insurance	4,802.16	4,802.16	70,000.00	65,197.84	-	65,197.84
Company Uniforms	140.14	140.14	1,500.00	1,359.86	-	1,359.86
Phone Office	641.91	641.91	9,000.00	8,358.09	-	8,358.09
Janitorial Service	101.36	101.36	4,500.00	4,398.64	300.00	4,098.64
Refuse Disposal	341.67	341.67	3,100.00	2,758.33	-	2,758.33
Liability Insurance	25,003.90	25,003.90	25,000.00	(3.90)	-	(3.90)
Workers Compensation	10,160.32	10,160.32	17,500.00	7,339.68	-	7,339.68
Wells	367.19	367.19	20,000.00	19,632.81	-	19,632.81
Truck Maintenance	281.98	281.98	3,000.00	2,718.02	-	2,718.02
Office Equip. Maintenance	-	-	7,500.00	7,500.00	89.85	7,410.15
Commun Equip. Maintenance	-	-	4,000.00	4,000.00	-	4,000.00
System Maintenance	7,244.98	7,244.98	55,000.00	47,755.02	-	47,755.02
Safety Equipment	-	-	3,000.00	3,000.00	-	3,000.00
Laboratory Services	4,553.00	4,553.00	8,000.00	3,447.00	207.00	3,240.00
Membership and Dues	2,259.00	2,259.00	7,500.00	5,241.00	-	5,241.00
Printing and Binding	9.65	9.65	1,500.00	1,490.35	-	1,490.35
Office Supplies	170.61	170.61	5,000.00	4,829.39	20.37	4,809.02
Postage and Express	939.76	939.76	13,500.00	12,560.24	-	12,560.24
B.O.D. Fees	750.00	750.00	13,500.00	12,750.00	-	12,750.00
Engineering & Technical Services	-	-	35,000.00	35,000.00	-	35,000.00
Computer Services	535.66	535.66	15,000.00	14,464.34	401.91	14,062.43
Other Prof. & Regulatory Fees	1,065.30	1,065.30	25,000.00	23,934.70	43.00	23,891.70
Public and Legal Notices	-	-	1,500.00	1,500.00	-	1,500.00
Attorney Fees	7,096.80	7,096.80	40,000.00	32,903.20	-	32,903.20
GSA Fees	25,000.00	25,000.00	50,000.00	25,000.00	-	25,000.00
VR/SBC/City of VTA Law Suit	1,849.91	1,849.91	25,000.00	23,150.09	-	23,150.09
State Water	-	-	25,000.00	25,000.00	-	25,000.00
Audit Fees	-	-	20,000.00	20,000.00	-	20,000.00
Small Tools	107.63	107.63	2,000.00	1,892.37	-	1,892.37
Election Supplies	-	-	2,500.00	2,500.00	-	2,500.00
Water Purchase	5,939.28	5,939.28	75,000.00	69,060.72	-	69,060.72
CMWD Standby Charges	1,034.40	1,034.40	15,000.00	13,965.60	-	13,965.60
Treatment Plant	712.55	712.55	20,000.00	19,287.45	-	19,287.45
Fuel	429.02	429.02	11,000.00	10,570.98	-	10,570.98
Travel Exp./Seminars	105.00	105.00	2,000.00	1,895.00	-	1,895.00
Utilities	234.21	234.21	3,500.00	3,265.79	354.65	2,911.14
Power and Pumping	1,820.77	1,820.77	80,000.00	78,179.23	4,498.89	73,680.34
Meters	-	-	8,000.00	8,000.00	-	8,000.00
Total Expenditures	**142,621.10**	**142,621.10**	**1,251,100.00**	**1,108,478.90**	**5,915.67**	**1,102,563.23**
Water Distribution System	-	-	-	-	-	-
Wells 4&7	12,827.37	12,827.37	150,000.00	137,172.63	-	137,172.63
Well 1&2 Rehab	-	-	100,000.00	100,000.00	-	100,000.00
18 Valve Replacements	2,765.98	2,765.98	80,000.00	77,234.02	-	77,234.02
	-	-	-	-	-	-
Structures and Improvements	-	-	-	-	-	-
Generator Z-2	-	-	75,000.00	75,000.00	-	75,000.00
Treatment Plant EDR/CEQA	-	-	80,000.00	80,000.00	-	80,000.00
Zone 1 Booster/MCC Upgrade	-	-	40,000.00	40,000.00	-	40,000.00
Well 1,2 VFD Upgrade	-	-	75,000.00	75,000.00	-	75,000.00
Furniture and Fixtures	-	-		-	-	-
General Managers Desk	-	-	2,000.00	2,000.00	-	2,000.00
Office Machines	-	-		-	-	-
New Computer GM	-	-	2,500.00	2,500.00	1,959.83	540.17
New Laptop GM			1,000.00	1,000.00	979.98	20.02
Field Equipment	-	-	-	-	-	-
	-	-	-	-	-	-
Appropriations for Contingencies	-	-	100,000.00	100,000.00	12,421.55	87,578.45
Total Assets	**15,593.35**	**15,593.35**	**705,500.00**	**689,906.65**	**15,361.36**	**674,545.29**
GRAND TOTAL	**158,214.45**	**158,214.45**	**1,956,600.00**	**1,798,385.55**	**21,277.03**	**1,777,108.52**

Consumer Price Index, Los Angeles area — July 2018

Area prices were up 0.2 percent over the past month, up 3.9 percent from a year ago

Prices in the Los Angeles area, as measured by the Consumer Price Index for All Urban Consumers (CPI-U), were up 0.2 percent in July, the U.S. Bureau of Labor Statistics reported today. (See table A.) Assistant Commissioner for Regional Operations Richard Holden noted that the July increase was influenced by higher prices for apparel and food. (Data in this report are not seasonally adjusted. Accordingly, month-to-month changes may reflect seasonal influences.)

Over the last 12 months, the CPI-U increased 3.9 percent. (See chart 1 and table A.) Energy prices jumped 18.4 percent, largely the result of an increase in the price of gasoline. The index for all items less food and energy advanced 3.3 percent over the year. (See table 1.)

Chart 1. Over-the-year percent change in CPI-U, Los Angeles-Long Beach-Anaheim, CA, July 2015–July 2018

Source: U.S. Bureau of Labor Statistics.

Food

Food prices increased 0.5 percent for the month of July. (See table 1.) Prices for food at home rose 0.9 percent, and prices for food away from home edged up 0.1 percent for the same period.

Over the year, food prices advanced 1.3 percent. Prices for food away from advanced 2.9 percent since a year ago, but prices for food at home declined 0.3 percent.

Energy

The energy index edged up 0.1 percent over the month. The increase was largely due to higher prices for electricity (2.1 percent). Prices for natural gas service rose 5.1 percent, but prices for gasoline declined 1.4 percent for the same period.

Energy prices jumped 18.4 percent over the year, mainly due to higher prices for gasoline (25.4 percent). Prices paid for electricity increased 8.9 percent, and prices for natural gas service advanced 3.7 percent during the past year.

All items less food and energy

The index for all items less food and energy inched up 0.1 percent in July. Higher prices for apparel (2.1 percent), education and communication (0.5 percent), and shelter (0.1 percent) were partially offset by a decline in new vehicle prices (-0.2 percent).

News Release Information

18-1305-SAN
Friday, August 10, 2018

Contacts

Technical information:
(415) 625-2270
BLSinfoSF@bls.gov
www.bls.gov/regions/west

Media contact:
(415) 625-2270

PDF

PDF version

Related Links

Historical data

Over the year, the index for all items less food and energy advanced 3.3 percent. Components contributing to the increase included shelter (5.1 percent), other goods and services (2.8 percent), and apparel (2.4 percent). Partly offsetting the increases were price declines in recreation (-1.2 percent) and household furnishings and operations (-0.6 percent).

Table A. Los Angeles-Long Beach-Anaheim CPI-U monthly and annual percent changes (not seasonally adjusted)

Month	2013		2014		2015		2016		2017		2018	
	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual
January	0.8	2.0	0.5	0.8	-0.3	-0.1	0.7	3.1	0.9	2.1	0.8	3.5
February	0.7	2.2	0.5	0.5	0.7	0.1	0.0	2.4	0.6	2.7	0.7	3.6
March	0.1	1.3	0.6	1.0	1.0	0.5	0.3	1.7	0.3	2.7	0.4	3.8
April	-0.4	0.9	0.0	1.4	-0.1	0.5	0.2	2.0	0.2	2.7	0.4	4.0
May	0.1	1.0	0.4	1.7	1.0	1.1	0.5	1.4	0.3	2.5	0.4	4.1
June	-0.1	1.4	0.1	1.8	-0.3	0.8	0.1	1.8	-0.2	2.2	-0.2	4.0
July	-0.1	1.3	0.1	2.0	0.7	1.4	0.0	1.1	0.3	2.5	0.2	3.9
August	0.1	0.8	-0.1	1.8	-0.3	1.1	0.0	1.4	0.3	2.8		
September	0.2	0.6	0.0	1.7	-0.4	0.7	0.2	1.9	0.4	3.1		
October	0.1	-0.1	-0.1	1.4	0.2	1.0	0.4	2.2	0.4	3.1		
November	-0.5	0.4	-0.7	1.3	0.0	1.6	-0.4	1.8	0.1	3.6		
December	0.0	1.1	-0.5	0.7	-0.1	2.0	0.0	2.0	0.0	3.6		

The August 2018 Consumer Price Index for the Los Angeles-Long Beach-Anaheim area is scheduled to be released on September 13, 2018.

Consumer Price Index Geographic Revision for 2018

In January 2018, BLS introduced a new geographic area sample for the Consumer Price Index (CPI). As part of the new sample, Los Angeles and Riverside have separate indexes. Additional information on the geographic revision is available at: www.bls.gov/cpi/georevision2018.htm.

Technical Note

The Consumer Price Index (CPI) is a measure of the average change in prices over time in a fixed market basket of goods and services. The Bureau of Labor Statistics publishes CPIs for two population groups: (1) a CPI for All Urban Consumers (CPI-U) which covers approximately 93 percent of the total population and (2) a CPI for Urban Wage Earners and Clerical Workers (CPI-W) which covers 29 percent of the total population. The CPI-U includes, in addition to wage earners and clerical workers, groups such as professional, managerial, and technical workers, the self-employed, short-term workers, the unemployed, and retirees and others not in the labor force.

The CPI is based on prices of food, clothing, shelter, and fuels, transportation fares, charges for doctors' and dentists' services, drugs, and the other goods and services that people buy for day-to-day living. Each month, prices are collected in 75 urban areas across the country from about 5,000 housing units and approximately 22,000 retail establishments--department stores, supermarkets, hospitals, filling stations, and other types of stores and service establishments. All taxes directly associated with the purchase and use of items are included in the index.

The index measures price changes from a designated reference date (1982-84) that equals 100.0. An increase of 16.5 percent, for example, is shown as 116.5. This change can also be expressed in dollars as follows: the price of a base period "market basket" of goods and services in the CPI has risen from $10 in 1982-84 to $11.65. For further details see the CPI home page on the Internet at www.bls.gov/cpi and the BLS Handbook of Methods, Chapter 17, The Consumer Price Index, available on the Internet at www.bls.gov/opub/hom/homch17_a.htm.

In calculating the index, price changes for the various items in each location are averaged together with weights that represent their importance in the spending of the appropriate population group. Local data are then combined to obtain a U.S. city average. Because the sample size of a local area is smaller, the local area index is subject to substantially more sampling and other measurement error than the national index. In addition, local indexes are not adjusted for seasonal influences. As a result, local area indexes show greater volatility than the national index, although their long-term trends are quite similar. **NOTE: Area indexes do not measure differences in the level of prices between cities; they only measure the average change in prices for each area since the base period.**

The Los Angeles-Long Beach-Anaheim. metropolitan area covered in this release is comprised of Los Angeles and Orange Counties in the State of California.

Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; Federal Relay Service: (800) 877-8339.

Table 1. Consumer Price Index for All Urban Consumers (CPI-U): Indexes and percent changes for selected periods

Los Angeles-Long Beach-Anaheim (1982-84=100 unless otherwise noted)

Item and Group	Indexes	Percent change from-

UPPER VENTURA RIVER GROUNDWATER AGENCY Item No. 7(c)

DATE: July 12, 2018

TO: Board of Directors

FROM: Agency Staff

SUBJECT: GSP Task 3.1 - Technical Advisory Committee Discussion

SUMMARY

The GSP PM will describe the purpose of a technical advisory committee and options for establishing one.

RECOMMENDED ACTION

It is recommended that the Board discuss whether to pursue formation of a technical advisory committee, discuss technical advisory committee structure options, and provide feedback to staff.

BACKGROUND

Some Board members have expressed an interest in forming a technical advisory committee (TAC) to weigh-in on the data gap tasks and GSP.

TAC Purpose and Duties

TACs are typically employed to develop consensus on data interpretation and analysis methods and other complex issues that involve scientific interpretation.

Based on Board member comments to date, the primary goal for the TAC would include:

- Review scopes for data gap tasks prior to Board approval (scopes already approved may be reviewed too);
- Review draft reports for data gap tasks; and
- Although not discussed to date, it is reasonable to assume the TAC would provide input on data analysis methods and review analysis results to be included in the GSP.

The above-listed duties are consistent with the duties assigned to the Fox Canyon Groundwater Management Agency's (FCGMA's) Technical Advisory Group (TAG), which was formed to advise on the development of three GSPs within its jurisdiction. The UVRGA GSP PM is an appointed member of the FCGMA TAG.

RECEIVED

AUG 0 3 2018

BY_____

July 26, 2018

Meiners Oaks Water District
Board of Directors
202 W. El Roblar
Ojai, CA 9302

Request for a water meter for 606 S. Rice Road, Ojai. Assessor's Parcel Number 018-0-021-355.

Dear Board Members,

My name is Steve Alary, I have been retained by Marsha Chandler-Moreno, the owner of the above referenced property to assist her with obtaining a water meter from your water company.

Seven years ago Marsha went through a very serious medical problem, which resulted in heart surgery. This resulted in a very large medical bill, and left Marsha unable to work and as a result her lender foreclosed on her home.

Since her property consisted of three different Assessor's Parcel Numbers, the bank only repossessed the parcel with the house on it.

Leaving Marsha with a lot without a water meter on it. She is trying to sell the lot, but in order to do so, she needs a water meter.

Please consider this request, and if you have any questions please call me at my number below.

Thanks,

Steve Alary

Steve Alary
9452 Telephone Road #109
Ventura, CA 93004
805-407-6729

MEINERS OAKS WATER DISTRICT

8/3/2018

Steve Alary
9452 Telephone Rd #109
Ventura, CA 93004

Re: Denial of request for a new water service located at 606 S. Rice Rd

Steve,

Thank you for your letter dated July 26, 2018. We are sorry to hear that Mrs. Moreno has suffered so greatly, but also glad to hear that she may be doing better.

Per your request for a new water service located at 606 S. Rice:
Meiners Oaks Water District (District) declared that a stage I Drought existed in 2012, (Resolution 2012-9-5) stage II conditions began in 2014 (Resolution 2014-8-1) and stage III water shortage emergency was declared in July 2016. (Resolution 20160517) Since 2013 the District resolved that no new connections would be allowed due to the drought and our dependency upon Casitas water as our back up source.

Those conditions and dependencies are depicted in our Drought Contingency Plan dated August 16, 2016, and amended January 20, 2017. The Drought Contingency Plan can be viewed on our website at meinersoakswater.org see page 8 of the plan.
Those conditions still persist and in fact, are further strained over the last 6 years as Lake Casitas continues to drop.

For the reasons explained above, the District must deny you and Mrs. Moreno's request for a new water service and Will Serve letter for 606 S. Rice Rd.

As requested, I will present your letter accompanied by my response to my Board at our next regular meeting.

Sincerely,
Mike Hollebrands, G.M.
Meiners Oaks Water District

VENTURA LOCAL AGENCY FORMATION COMMISSION
COUNTY GOVERNMENT CENTER • HALL OF ADMINISTRATION
800 S. VICTORIA AVENUE, L #1850 • VENTURA, CA 93009
TEL (805) 654-2576 • FAX (805) 477-7101
WWW.VENTURA.LAFCO.CA.GOV

CALL FOR NOMINATIONS
LAFCO SPECIAL DISTRICT
REGULAR MEMBER & ALTERNATE MEMBER

July 31, 2018

Chair of the Board
Meiners Oaks Water District
202 W. El Roblar Drive
Ojai, CA 93023-2211

RE: CALL FOR NOMINATIONS – Ventura LAFCo Special District Regular Member and Alternate Member

Dear Chair of the Board:

The terms of LAFCo special district regular member Elaine Freeman and alternate special district member Andy Waters will expire on January 1, 2019. As such, appointments must be made for the subsequent four-year terms (January 1, 2019 through January 1, 2023) (Govt. Code § 56334. Pursuant to state law, LAFCo special district members are appointed by the independent special district selection committee, which consists of the presiding officer of the legislative body of each independent special district in the county (Govt. Code § 56332).

Pursuant to Govt. Code 56332(f), I have determined that a meeting of the committee for the purpose of selecting a regular member and alternate member to LAFCo is not feasible due to the likelihood that a quorum will not be achieved. Thus, both the nominating process and the election itself will be conducted by mail (some special districts have consented to conducting the election via electronic mail).

If your district wishes to nominate an individual to be a candidate for the regular member or alternate member on LAFCo, please submit a nominating resolution (attached is a sample resolution for your use) and a candidate's statement or resume of no more than one page to Kai Luoma, Executive Officer, at Ventura LAFCo either by mail or via email (for those districts that have previously consented to email – see attached list).

The deadline for submitting nominating resolutions and candidate statements/resumes is 5 P.M., Friday, September 28, 2018. Any nomination submitted after the deadline will not be considered.

If at the end of the nominating period only one candidate for either the regular member or alternate member seat is nominated, that candidate shall be deemed appointed. If two or more candidates are nominated to each position, LAFCo staff will prepare and deliver a ballot(s) and voting instructions to each eligible district. For the election to be valid, at least a quorum of the 30 independent special districts must submit valid ballots.

Thank you for your attention to this matter. Please let me know if further information is desired.

Sincerely,

Kai Luoma
Executive Officer

c: General Manager

VENTURA LOCAL AGENCY FORMATION COMMISSION
COUNTY GOVERNMENT CENTER • HALL OF ADMINISTRATION
800 S. VICTORIA AVENUE, L #1850 • VENTURA, CA 93009
TEL (805) 654-2576 • FAX (805) 477-7101
WWW.VENTURA.LAFCO.CA.GOV

INDEPENDENT SPECIAL DISTRICTS IN VENTURA COUNTY

As of July 2018

1. Bardsdale Public Cemetery District
2. Bell Canyon Community Services District*
3. Blanchard/Santa Paula Library District*
4. Calleguas Municipal Water District*
5. Camarillo Health Care District*
6. Camrosa Water District*
7. Casitas Municipal Water District*
8. Channel Islands Beach Community Services District*
9. Conejo Recreation & Park District*
10. El Rancho Simi Public Cemetery District
11. Fillmore-Piru Memorial District
12. Fox Canyon Groundwater Management Agency*
13. Hidden Valley Municipal Water District
14. Meiners Oaks Water District*
15. Montalvo Community Services District*
16. Ojai Valley Sanitary District*
17. Ojai Water Conservation District*
18. Oxnard Drainage District No. 1*
19. Oxnard Drainage District No. 2*
20. Oxnard Harbor District*
21. Piru Public Cemetery District
22. Pleasant Valley County Water District
23. Pleasant Valley Recreation & Park District*
24. Rancho Simi Recreation & Park District*
25. Saticoy Sanitary District*
26. Triunfo Sanitation District*
27. United Water Conservation District*
28. Ventura County Resource Conservation District*
29. Ventura Port District
30. Ventura River County Water District*

* Special Districts that have provided written consent to conduct the election via email.

RESOLUTION OF THE [*DISTRICT NAME*]

NOMINATING [*NAME OF BOARD MEMBER*] **TO FILL THE TERM OF 1/1/2019 – 1/1/2023 FOR THE** [*REGULAR or ALTERNATE*] **SPECIAL DISTRICT MEMBER OF THE VENTURA LOCAL AGENCY FORMATION COMMISSION**

WHEREAS, the Executive Officer of the Ventura Local Agency Formation Commission (LAFCo) has notified the District of an anticipated vacancy on LAFCo for [*A REGULAR or AN ALTERNATE*] member appointed by the independent special districts in Ventura County to fill the term from 1/1/2019 to 1/1/2023, and has issued a call for nominations to be submitted in writing pursuant to California Government Code Section 56332(c); and

WHEREAS, at the time and in the manner required by law, the [*NAME OF DISTRICT*] met on [D*ATE*] to consider the call for nominations by the LAFCo Executive Officer.

NOW THEREFORE BE IT RESOLVED by the [*NAME OF DISTRICT*] as follows:

1) [*NAME OF BOARD MEMBER*] is hereby nominated to fill the anticipated vacancy in the term beginning 1/1/2019 and expiring 1/1/2023 as the [*REGULAR or ALTERNATE*] member of the Ventura LAFCo appointed by independent special districts in Ventura County.

2) The General Manager shall transmit a signed copy of this Resolution and a copy of the resume or candidate statement for [*NAME OF BOARD MEMBER]* to the Ventura LAFCo Executive Officer.

This resolution was adopted on [D*ATE*].

AYES

NOES

ABSTAINS

Dated: _____

_____
Chair, [*NAME OF DISTRICT*]

TAC Qualifications

Establishing minimum qualifications for TAC members is highly recommended. Consistent with the FCGMA, the TAC members should be technical professionals with a degree from a state-accredited college or university and possess educational background and experience in hydrogeology or hydrology, applicable to the Upper Ventura River Basin. As required by SGMA and the California Business and Professions Code, practicing professionals must possess a State of California professional license (Professional Geologist, Certified Hydrogeologist, or Professional Engineer [Civil]).

TAC Design Options

Staff researched the makeup of a number of different technical advisory groups. Several different models were identified and are briefly described below, keeping in mind that there is no requirement to follow any particular model.

- Representative Model: Under this model, TAC members are selected to represent the various interests within the Agency. The FCGMA TAG follows this model, having a one member appointed by each Board member (representing Cities, County, agriculture, small water districts, and United Water Conservation District) and two additional members to represent the public and environmental interests. TAC appointees may be either paid or unpaid depending on the arrangement made with the appointor. Some agencies have TACs that consist of one staff member from each member agency (in which case the TAC members are paid by their agency). This is most common in situations where the member agencies already have qualified professionals on staff.
    - Pros:
        - Provides perceived stakeholder representation. However, the reality is the technical professionals participating in the TAC are supposed to be focused on technical realities, not advocacy.
    - Cons:
        - Would result in a large committee.
            - Large committees are inherently inefficient, which could impact schedules.
            - Larger committees increase administration costs.
        - For UVRGA, the agencies/groups represented by some Board members may not have the resources to sponsor a TAC representative, resulting in vacancies that would defeat the perception of balanced stakeholder representation.

- Subject Matter Model: Under this model, TAC members are selected to provide specialized expertise on different aspects of the project. The National Water Research Institute uses this model for its advisory panels that are developed to review various water issues. This model is useful for projects that include a variety of highly specialized subject matters (for example the West Basin MWD seawater desalination subsurface intake project panel dealt with a wide range of issues including nearshore geology, intake design, underwater construction methods, non-conventional drilling techniques, marine organism entrainment/impingement, etc.) By contrast, GSPs are focused on a

comparatively narrow range of issues. For this reason, the subject matter model is not particularly applicable to GSP development for most GSAs.

- Open Model: Under this model, the TAC is open to any interested person who meets the minimum qualifications. Prior the SGMA, the FCGMA's TAG used an open model.
    - Pros:
        - Creates the opportunity for maximum input
    - Cons:
        - Could result in a large and difficult committee to manage, which would increase the likelihood of delays and increase administration costs
        - Lack of accountability
            - Participation may be inconsistent
            - No guarantee the committee will meet the Board's objectives

- Other Models: Not all TACs necessarily fit into one of the above-listed models.

As mentioned above, there is no requirement to follow any particular model. In fact, SGMA does not require implementation of a TAC. However, implementing a TAC may serve to increase stakeholder buy-in on the GSP.

If the Board desires to move forward with developing a TAC, staff offers the following design suggestions:

1. Keep it small. A smaller committee will minimize administration costs , will minimize TAC member costs (if the agency ends up paying for TAC member time), and will reduce the potential for delays.

2. Focus on needs. The primary need is consensus on hydrogeology issues, including groundwater-surface water interaction. It would be good to have multiple opinions on these issues throughout the GSP development process. Specialized issues, such as biology questions (groundwater dependent ecosystems) do not require a standing committee member[1] and can be addressed with a temporary member or specialty consulting services.

Based on the foregoing, if the Board desires to move forward with developing a TAC, staff would recommend a four-person committee, including the GSP PM, Jordan Kear, and two other members to be approved by the Board. The two unidentified members would be selected from a pool of candidates generated by responses to a request for qualifications issued by the Agency. In order to generate interest and ensure long-term participation, it is recommended that the Agency compensate the TAC members for their time.

[1] Some technical issues may fall outside of the licensing scope (e.g. biology questions related to groundwater dependent ecosystems). In these cases, the professional licensing requirement would not apply.

Allocation and Demand Comparison

For 1200 5/8" & 3/4" residential meters

No.	Description	Amount (AF/Yr)
1	2012-2010 Historical Demand	554
2	Present MOWD Baseline Allocations	668
3	Reduced Stage 4 MOWD Allocations	401
4	Stage 4 - 40% demand reduction	332
5	WEAP Baseline Allocations	
	Health & Safety	331
	Outdoor Use	395
	Total Baseline Allocations	726
6	WEAP Stage 4 Allocations	
	Health & Safety	331
	Outdoor Use	237
	Total Stage 4 Allocations	568
7	Water Use Scenario 1 - Stage 4	348
	Conservation	37%

Scenario 1 - Lowest and middle 1/3 water users continue to conserve 30%. Highest 1/3 water users stay within their Stage 4 WEAP allocations

Sample Check of Eagle-Based Allocations

				WEAP Base Allocation by hand						WEAP Base Allocation from Eagle					
Account No.	Address	2010-12 Average (hcf/yr)	MOWD Base Alloc (hcf/yr)	Essent. Alloc (hcf/yr)	Total Area (SF)	Irrig Area (SF)	Irrig %	Irrig. Alloc (hcf/yr)	WEAP Total Alloc. (hcf/yr)	Essent. Alloc (hcf/yr)	Total Area (SF)	Irrig Area (SF)	Irrig %	Irrig. Alloc (hcf/yr)	WEAP Total Alloc. (hcf/yr)
Lowest 1/3 residential users															
1	Blank	79	180	120	12000	9,243	77%	157	277	120	6002	5,155	86%	102	222
2	Blank	83	180	120	6000	2,402	40%	48	168	120	5998	1,950	33%	39	159
3	Blank	82	180	120	4480	2,190	49%	44	164	120	4483	617	14%	12	132
4	Blank	77	180	120	15680	11,520	73%	187	307	120	15566	11,520	74%	187	307
5	Blank	85	180	120	19602	14,992	76%	234	354	120	18617	12,184	65%	196	316
6	Blank	80	180	120	23598	17,516	74%	244	364	120	24035	16,245	68%	239	359
	AVERAGE	**81**	**180**	**120**		**9,644**		**152**	**272**	**120**		**7,945**		**129**	**249**
Middle 1/3 residential users															
7	Blank	155	180	120	47916	38,616	81%	329	449	120	48183	40,155	83%	335	455
8	Blank	148	180	120	6000	4,117	69%	83	203	120	6005	4,889	81%	98	218
9	Blank	156	180	120	6000	3,096	52%	62	182	120	6005	3,459	58%	69	189
10	Blank	155	180	120	7250	3,664	51%	74	194	120	7253	4,166	57%	84	204
11	Blank	156	180	120	45302	28,142	62%	287	407	120	43575	30,543	70%	296	416
12	Blank	159	180	120	11326	7,113	63%	129	249	120	11448	7,421	65%	133	253
	AVERAGE	**155**	**180**	**120**		**14,125**		**161**	**281**	**120**		**15,106**		**169**	**289**
Highest 1/3 residential users (first sample set)															
13	Blank	366	366	120	7475	2,996	40%	60	180	120	7489	1,620	22%	32	152
14	Blank	362	362	120	10000	4,263	43%	85	205	120	10000	3,586	36%	72	192
15	Blank	360	360	120	8125	5,902	73%	112	232	120	8128	5,491	68%	107	227
16	Blank	357	357	120	10456	5,791	55%	111	231	120	10184	5,971	59%	113	233
17	Blank	368	368	120	9900	5,255	53%	104	224	120	10377	5,753	55%	110	230
18	Blank	365	365	120	55757	49,156	88%	371	491	120	55757	34,284	61%	311	431
	AVERAGE	**363**	**363**	**120**		**12,227**		**141**	**261**	**120**		**9,451**		**124**	**244**

Highest 1/3 residential users (second sample set)															
19	Blank	373	373	120	12197	5,455	45%	106	226	120	12006	6,636	55%	122	242
20	Blank	374	374	120	7500	5,233	70%	103	223	120	7506	5,211	69%	103	223
21	Blank	371	371	120	6000	2,804	47%	56	176	120	6006	2,197	37%	44	164
22	Blank	380	380	120	21780	16,056	74%	238	358	120	21748	17,304	80%	243	363
23	Blank	370	370	120	14375	8,388	58%	145	265	120	14504	7,899	54%	139	259
24	Blank	360	360	120	20038	13,833	69%	218	338	120	20043	12,050	60%	195	315
	AVERAGE	**371**	**371**	**120**		**8628**		**144**	**264**	**120**		**8550**		**141**	**261**
Highest 1/10 water users															
25	Blank	587	587	120	36155	23,979	66%	270	390	120	36414	23,558	65%	268	388
26	Blank	582	582	120	222592	max	max	521	641	120			max		
27	Blank	648	648	120	18624	15,121	81%	234	354	120	11296	5,404	48%	106	226
28	Blank	587	587	120	21780	15,695	72%	237	357	120	21631	14,343	66%	225	345
29	Blank	517	517	120	41382	35,380	85%	316	436	120	41447	35,154	85%	315	435
	AVERAGE	**584**	**584**	**120**		**22544**		**316**	**436**	**120**		**19615**		**229**	**349**
Top 5 residential users															
30	Blank	2450	2450	360	253084	max	max	521	881	360			max		
31	Blank	1990	1990	120	345866	max	max	521	641	120	336487	210,894	max	521	641
32	Blank	1435	1435	120	24829	4,000	16%	80	200	120	24791	13,025	53%	208	328
33	Blank	1390	1390	120	72745	67,803	93%	446	566	120	73304	67,931	93%	446	566
34	Blank	1343	1343	120	32234	27,924	87%	286	406	120	29810	27,219	91%	283	403
	AVERAGE	**1722**	**1722**	**168**		**33242**		**371**	**539**	**168**		**79767**		**365**	**485**
Highest 1/3 water users with 1-inch R meters															
35	Blank	636	636	120	55757	40,308	72%	335	455	120	55816	37,807	68%	325	445
36	Blank	595	595	120	31363	25,784	82%	277	397	120	31550	26,185	83%	279	399
37	Blank	685	685	120	39640	35,056	88%	314	434	120	39715	35,755	90%	317	437
38	Blank	572	572	120	21824	14,167	65%	223	343	120	21826	13,440	62%	213	333
39	Blank	575	575	120	87120	65,844	76%	438	558	120	87137	61,636	71%	421	541
40	Blank	623	623	120	130680	max	max	521	641	120	130715	119,480	max	521	641
	AVERAGE	**614**	**614**	**120**		**36232**		**351**	**471**	**120**		**49051**		**346**	**466**

July 2018

MEINERS OAKS WATER DISTRICT
VENTURA COUNTY SINCE 1949
(805) 646-2114
202 WEST EL ROBLAR DRIVE

To: Board of Directors of the Meiners Oaks Water District

From: General Manager

Subject: Monthly Manager's Report

Highlights

(Rainy season October thru April)

16.04" of rain

LAKE CASITAS LEVEL

32.6%

Board Committees

Minutes from the GSA meeting will be given verbally

Executive Committee met on August 8th
Items discussed:

1. G.M. Evaluation
2. COLA adjustments
3. District benefits

Current Well levels and specific capacity

Well 1	June	July	Well 2	June	July	Well 4	June	July	Well 7	June	July
Static	34.8'	32.2'	Static	35.4'	30.7'	Static	53.5'	53.8'	Static	52.8'	53.3'
Running	43.3'	'	Running	44.1'	'	Running	0.0'	'	Running	58.3'	'
Drawdown	9'	'	Drawdown	8.6'	'	Drawdown	0.0'	'	Drawdown	5.5'	'
Specific Cap.	20.7 gal/ft	gal/ft	Specific Cap.	13.7 gal/ft	gal/ft	Specific Cap.	0.0 gal/ft	0.0 gal/ft	Specific Cap.	62.5 gal/ft	gal/ft

Water Production

Water production and sold values are based on a calendar year

Total Pumped in July:			
Wells	**AF**	**Average GPM**	**Typical GPM**
1.	15.77	187	375
2.	9.01	119	250
4.	0.00	0	750
7.	0.00	0	450
8.	0.00	Off	330

Total Pumped

Total Pumped for July	0.00 AF
Total Pumped 2017:	667.54 AF
Total Pumped YTD 2018:	203.95 AF

Total Sold:

Total Sold for July 2018:	69.80 AF
Total Sold YTD 2018:	341.48 AF
Total Sold 2017:	679.51 AF
Total Purchased from CMWD 2017	51.46 AF
Total Purchased July	66.29 AF
Total Purchased YTD 2018	124.75AF

Total Capacity:

2083 Gallons per Minute (GPM) with all current wells on line 1, 2, 4, 7, 8)
3,583 Gallons per minute (GPM) with all current wells on line 1, 2, 4, 7, 8) + Casitas

Water Sales:

(Sales values are based on the actual month listed only not YTD)

July	2017:	$ 58,837.18
July	2018:	$ 57,502.64

Reserve Funds

Balance at the County of Ventura	**$ 1,210,541.42**
Total Taxes*	$ 735.84
Total Interest from reserve account#	$ 1,948.53

Fiscal Year Total Revenues

July 1st – July 31st	2017	$ 124,526.60
July 1st – July 31st	2018	$ 126,090.80

Bank Balances

LAIF Balance	$ 257,639.33
Transferred from the general fund to L.A.I.F.	**$ 0.00**
(#) Quarterly Interest from LAIF	$ 1,216.93
Money Market (RABO)	$ 400,902.73
Amount Transferred to RABO Money Market this month	$ 0.00
Amount Transferred to General Fund from Money Market	**$ 100,000.00**
(*)Monthly Interest received from Money Market	$ 76.72
General Fund Balance	$ 28,483.09
Trust Fund Balance	$ 14,561.92
Capital Improvement Fund	$ 14,408.42
(#)Quarterly Interest from Capital Account	$ .25
Total Interest accrued	$ 1,293.90

Water Quality

We are on Casitas

Distribution

Wells one and two have been pulled and video's taken. There will be an update on the needed repairs during the next Board meeting. Separate bids for the full repair of each well will be sent out once we understand the extent of what's needed.

Capital Improvement Projects for 2018-2019
Budgeted capital funds $ 705,000 FY 2018-2019

1. Rehabilitate well #4 / MCC VFD's (In Process)
2. Environmental design report for the treatment plant (In process)
3. Replace 18 system valves (In Process)
4. VFD's for wells 1 and 2
5. Zone 1 Booster/MCC

Unscheduled Work

Service leak at 609 Mesa	$8,847.00
Replace main line lateral Maricopa Hwy	$114,493.00
Main Leak – 229 W. El Roblar Sam Hill and Sons Saturday work	$10,806.82
Service Repair 144 S. Pueblo	$1,000.00
Service Repair 388 S. Pueblo	$1,000.00
Thomas Fire Well's 1&2 (Reimbursed by insurance)	$118,680.20
Service leak and replacement S. La Luna	$3,120.00
Re-drill well #4/MCC and VFD's (Unplanned)	$ 320,652.21
Main Leak on Oso Rd Sam Hill did the repair	$ 2,037.00
Main Leak at 146 Chessire Ct	$
Two service replacements on Lomita	$
Emergency Valve Replacement El Sol/Pala	$
Total	**$ 581,107.23**

Tanks

1. 250k gallon was installed in 1958 age = 57 (Removed 2015)
2. 80k gallon was installed in 1983 age = 35 (Zone -2)
3. 500k gallon was installed in 1988 age = 28 (Removed 2015)
4. 500k gallon was installed in 1973 age = 45 (Put back into service 2011)
5. 500k gallon was installed in 2003 age = 15
6. 750k gallon welded tank 2015 age = 3

Life expectancy for a bolted tank is 30 – 40 years
Life expectancy for a welded steel tank 100 years

Well Drilled Dates & Depths

	Date drilled	Drill Depth
1. Well # 1	1969	60 feet
2. Well # 2	1969	116 feet
3. Well # 4	1969	240 feet
4. New well 4	2018	165 feet
5. Well # 7	1961	156 feet
6. Well # 8	1968	144 feet

Board of Directors

President – Jim Kentosh Elected in 2014	Term ends 2018	Long Term
Vice-President – Mike Krumpschmidt Elected 2016	Term ends 2020	Long Term
Board Member – Larry Harrold Elected 2014	Term ends 2018	Long Term
Board Member – Michael Etchart Elected 2014	Term Ends 2018	Long Term
Board Member – Diana Engle Elected 2016	Term Ends 2020	Long Term

Meiners Oaks Water District

Board of Directors standing committees

Executive Committee: James Kentosh Mike Etchart	The executive committee consists of the President and Vice-President of the Board; they will meet and make recommendations to the Board on legal matters, personnel matters with regard to the benefits, and major policy issues.
Budget/Rate Committee: Larry Harrold Mike Etchart Mike Hollebrands	The budget committee will work with the General Manager to prepare and recommend the District's annual budget and proposed water rates. It will also oversee and ensure Prop 218 compliance.
GSA Committee: Diana Engle (L) Mike Krumpschmidt Mike Hollebrands (A)	The GSA committee monitors, reports, and makes recommendations on the GSP and will report to the Board any updates that would pertain to UVRGSA once formed. One committee member will serve on the GSA Board and the other as an alternate. To serve as the alternate to the GSA Board
Drought Committee: Jim Kentosh Diana Engle Mike Hollebrands	The Drought committee will work with the G.M. to develop and recommend policies to the Board to help the District and its customers through all water shortage emergency declarations. (Current and Future)

Pacific Surveys

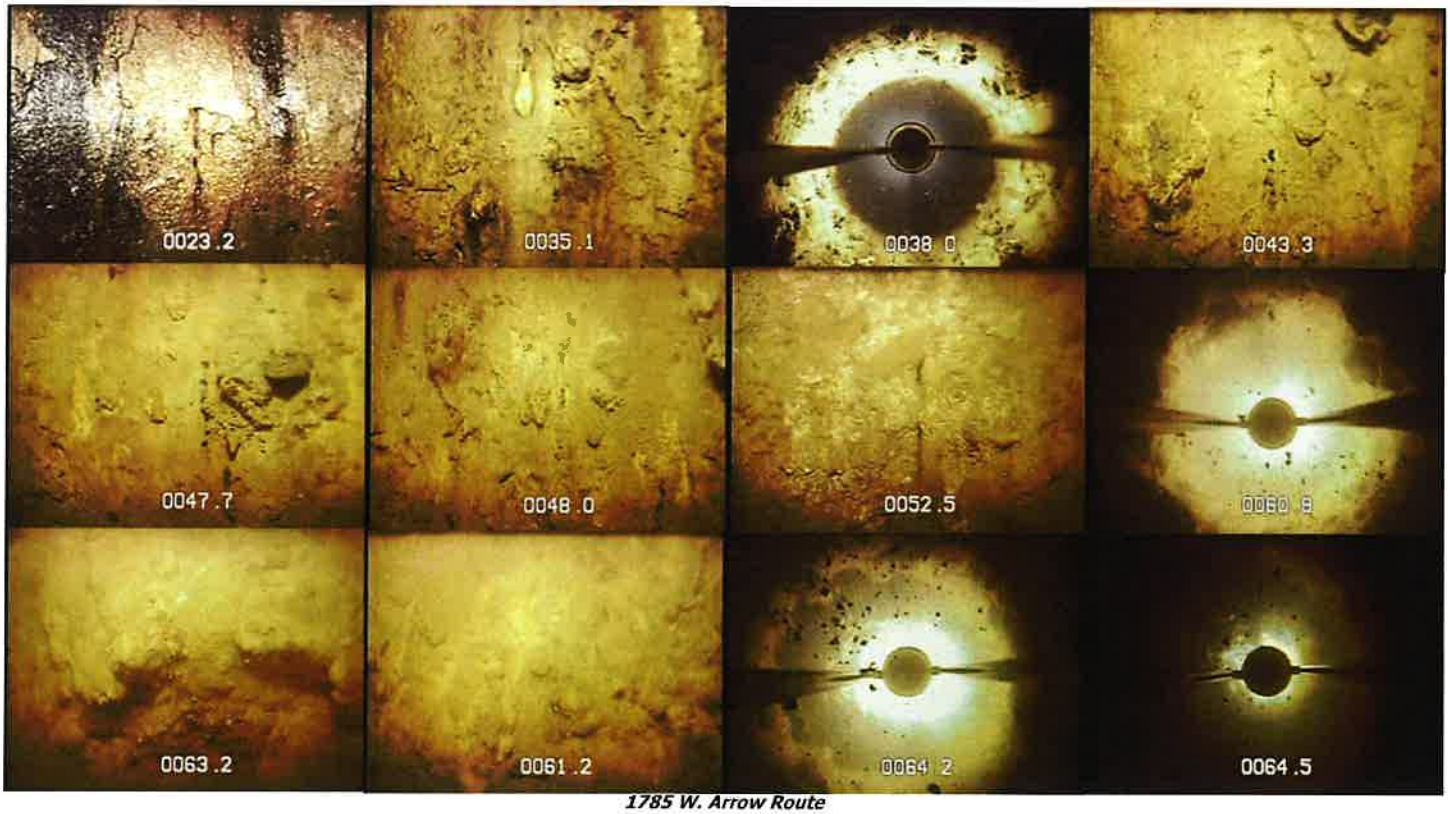
a full service geophysical well logging company

Video Survey Report

Company:	General Pump	**Date:**	09-Aug-18		
Well:	Meiners Oaks Water District Well 1	**Run No.**	One	**Truck**	PS-3
Field:	Ojai	**Job Ticket:**	24374		
State:	California	**Total Depth:**	66.1 ft		
Location:	15145 Maricopa Hwy	**Water Level:**	34.4 ft	SWL	
		Oil on Water:	No	**Amount:**	N/A
GPS:	34.4771876 -119.2916328	**Operator:**	Villalobos		
Zero Datum:	Top of CSG **Tool Zero:** Side-Scan			**Dead Space**	1.75 ft
Reason for Survey:	General Inspection	**Guides Set @**	11 in		

Depth	Observations
0.0 ft	Begin survey from top of casing.
8.0 ft	Moderate scaling appears on casing.
23.2 ft	Top of perforations: appear open.
34.4 ft	SWL: water is clear. Visibility is good .
34.5 ft	Perforations appear mostly plugged. Moderate bio-growth observed on casing.
36.0 ft	Small to moderate bio-growth nodules appear on casing.
53.0 ft	Majority of perforations appear plugged.
62.0 ft	Increase in bio-growth from moderate to heavy. Perforations appear plugged.
65.9 ft	Top of fill. Unable to locate any perforations due to heavy bio-growth.
66.1 ft	Camera light-bar touches top of hard bottom. End survey.

Well Details	
Perforation:	**From Survey**
Vertical Mill Slot	23.20 ft to 64.20 ft
Casing Size:	**From Survey**
12 in ID	0.00 ft to 64.40 ft
Casing Material	Mild Steel
Screen Material	Mild Steel



1785 W. Arrow Route
Bldg D, Suite 3 and 4
Upland, CA 91786
www.pacificsurveys.com

800.919.7555
909.625.6262

fax: 909.399.3180

GENERAL PUMP COMPANY

159 N. ACACIA STREET * SAN DIMAS, CA 91773
PHONE: (909) 599-9606 * FAX: (909) 599-6238

CAMARILLO, CA 93010 * PHONE: (805) 482-1215
www.genpump.com

WELL & PUMP SERVICE SINCE 1952
Serving Southern California and Central Coast

Lic. #496765

Meiners Oaks Water District
202 W. El Roblar
Ojai, CA 93023

August 15, 2018

Attn: Mr. Mike Hollebrands

Subject: Well #1 Report of Condition (GPC Job Number 80902)

General Pump Company (GPC) removed the pump from well #1 on August 6 and transported the pump and motor to our facility in Camarillo and inspected the equipment.

The pump equipment received and condition is provided below:

(1) 10" – 4 stage Bowl Assembly with 6" Cone Strainer – Condition is considered "Not Rebuildable" as the impellers are in very poor condition, the suction case is broken and the cast iron bowls and discharge are brittle. The cost to rebuild the bowl assembly would be greater than the cost of a replacement unit. The cost to See Photo below:

(2) Column pipe is 6" X 10' X 1-3/16" Line shaft X 52-feet and 7-inches. The pipe had to be torch cut to remove from the well and is not reusable. The Line Shafts are carbon steel with sleeves and are not reusable (See Photo)

(3) The discharge head is a Layne & Bowler 6" cast head and can be sandblasted, repainted and reused.
   a. The Packing box in the head requires cleaning and bearing replacement and new packing at time of installation, otherwise, is reusable
   b. The top column flange is reusable after cleaning.

(4) The 25 HP Motor has low megaohms reading and will require a clean, dip and bake of the motor windings and new bearings should be installed as a precaution for future use. Otherwise, is reusable.

(5) A video log of the well was performed on 8/10/18 with the following comments:
   a. Well #1 is 12-inch diameter to 66.10feet.
   b. Perforations are vertical mill slot from 23.2-feet to 64.2-feet.
   c. Well report shows well was drilled to 113-feet and has 60-feet of casing installed which agrees with the video report.
   d. Majority of perforations appear to have significant plugging.
   e. Recommend a brushing with chemicals and redevelopment to clean the well before installation of the replacement pump equipment.

Please note that General Pump Company has 6" X 1-3/16" Column, shafting and bearing retainers in stock that are very lightly used that can be competitively priced to replace these materials on this pump unit.

Please let us know if there is any additional information needed or questions about the above report and if anyone would like to visit our facility to see the equipment first hand.

Best Regards

Ray Reece
General Manager

Pacific Surveys

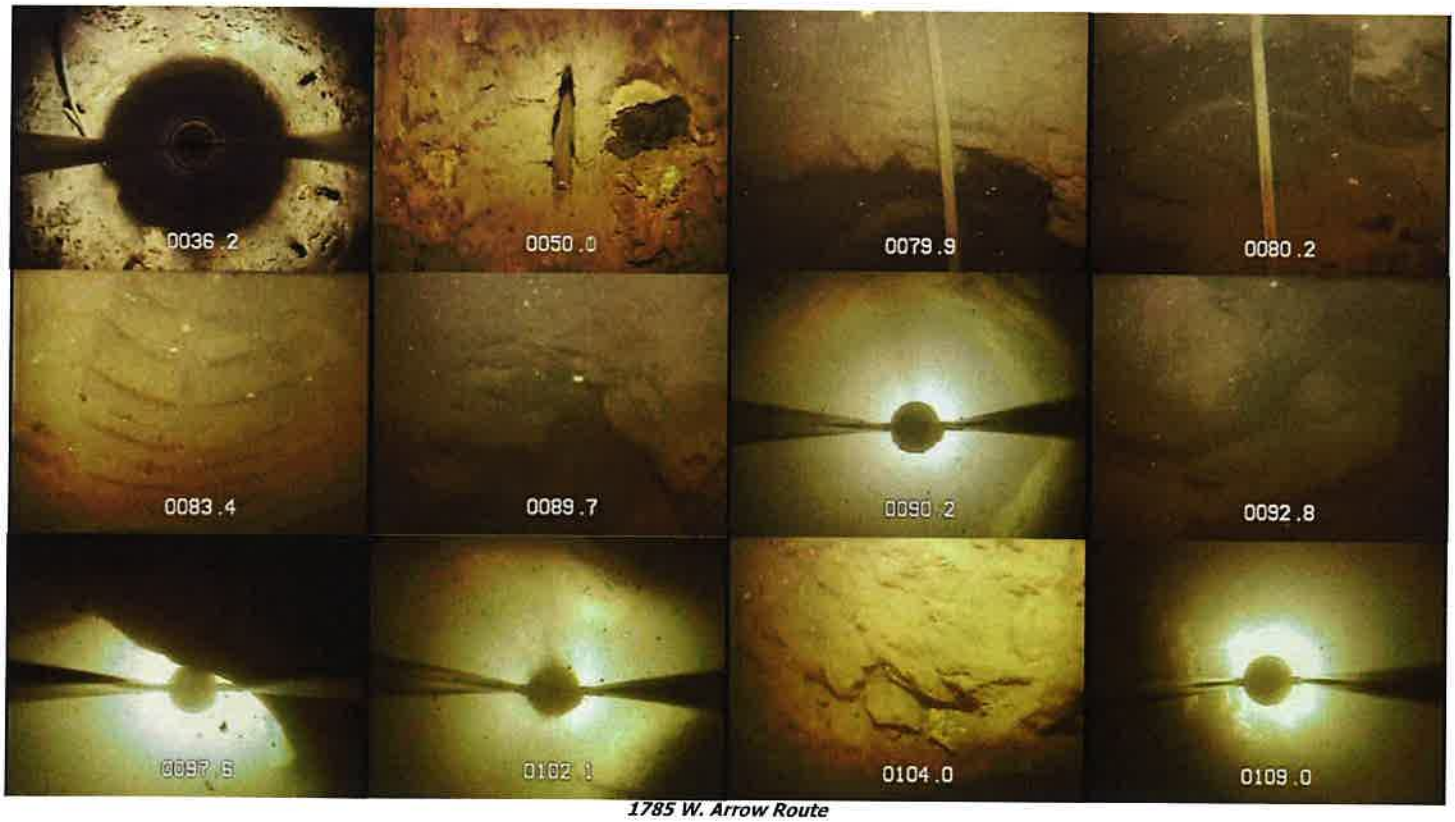
a full service geophysical well logging company

Video Survey Report

Company:	General Pump	**Date:**	09-Aug-18
Well:	Meiners Oaks Water District Well 2	**Run No.**	One **Truck** PS-3
Field:	Ojai	**Job Ticket:**	24373
State:	California	**Total Depth:**	112.3 ft
Location:	15145 Maricopa Hwy	**Water Level:**	33.2 ft SWL
		Oil on Water:	No **Amount:** N/A
GPS:	34.4758302 -119.2912805	**Operator:**	Villalobos
Zero Datum:	Top of CSG **Tool Zero:** Side-Scan		**Dead Space** 1.75 ft
Reason for Survey:	General Inspection	**Guides Set @**	13.75 in

Depth	Observations
0.0 ft	Begin survey from top of casing.
17.0 ft	Moderate scaling observed on casing.
29.2 ft	Appears to be wire, possibly airline in casing. Continues to bottom.
33.0 ft	Top of perforations: appear open and slightly enlarged. Formation is visible through perforations.
33.2 ft	SWL: water is clear. Visibility is good. Moderate to heavy bio-growth on casing.
45.6 ft	Perforations appears mostly open.
47.3 ft	Majority of perforations appear open with localized sections of plugging.
53.4 ft	Bottom of perforated interval: appears open.
54.5 ft	Decrease in water clarity. Visibility is poor in down-view and fair in side-scan.
79.9 ft	Appears to be a very large hole in the casing. Formation is visible through hole. Bottom of hole
	appears to be at 81.9 ft.
83.2 ft	Appears to be some sort of indentation on one side of casing.
89.7 ft	Appears to be another very large hole. Formation is visible on one side.
96.3 ft	It appears as though the casing is completely separated. Formation appears to be visible on all sides.
102.1 ft	It is possible that the camera is in the borehole, there appears to be an indentation inward. Due
	to poor visibility and bio-growth, it is difficult to know for certain if we are completely in the formation,
	or if there are pieces of casing.
110.6 ft	Top of fill. Appears to be mostly, if not completely, in formation/borehole.
112.3 ft	Camera light-bar touches top of hard bottom. End survey.
	NOTE: all perforations appear enlarged.

Well Details	
Perforation:	**From Survey**
Vertical Mill Slot	33.00 ft to 53.40 ft
Casing Size:	**From Survey**
14.25 in ID	0.00 ft to ?
Casing Material	Mild Steel
Screen Material	Mild Steel



800.919.7555
909.625.6262

1785 W. Arrow Route
Bldg D, Suite 3 and 4
Upland, CA 91786
www.pacificsurveys.com

fax: 909.399.3180

GENERAL PUMP COMPANY

159 N. ACACIA STREET * SAN DIMAS, CA 91773
PHONE: (909) 599-9606 * FAX: (909) 599-6238

CAMARILLO, CA 93010 * PHONE: (805) 482-1215
www.genpump.com

WELL & PUMP SERVICE SINCE 1952 Lic. #496765

Serving Southern California and Central Coast

Meiners Oaks Water District
202 W. El Roblar
Ojai, CA 93023

August 15, 2018

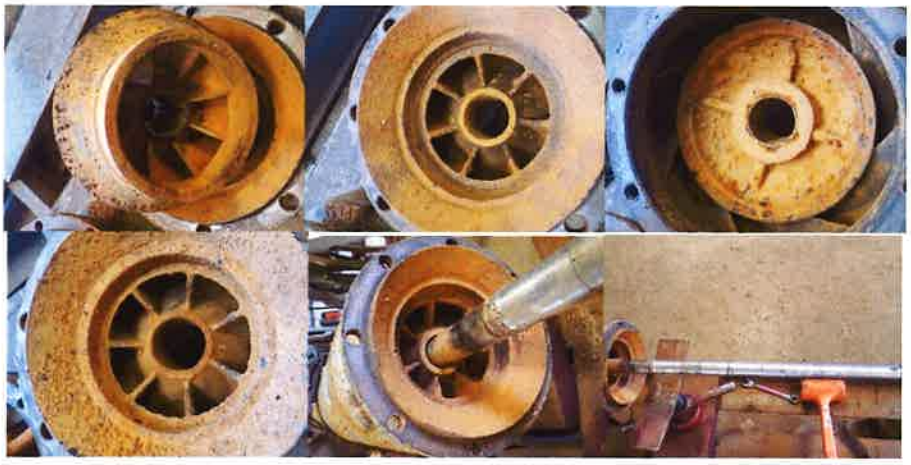
Attn: Mr. Mike Hollebrands

Subject: Well #2 Report of Condition (GPC Job Number 80901)

General Pump Company (GPC) removed the pump from well #1 on August 3 and transported the pump and motor to our facility in Camarillo and inspected the equipment.

The pump equipment received and condition is provided below:

(1) 8" – 8 stage Bowl Assembly with 6" Cone Strainer – Condition is considered "Not Rebuildable". The bowl bearing, impeller clearance and shaft are significantly worn and cannot be re-machined for reuse. See Photos below:



(2) Column pipe is 6" X 10' X 1-3/16" Line shaft X 93-feet. The pipe had to be torch cut to remove from the well and is not reusable. The Line Shafts are carbon steel with sleeves and are not reusable and the suction pipe has a hole in the side from corrosion (See Photo)

(3) The discharge head is a Layne & Bowler 6" cast head and can be sandblasted, repainted and reused.
   a. The Packing box in the head requires cleaning and bearing replacement and new packing at time of installation, otherwise, is reusable
   b. The top column flange is reusable after cleaning.

(4) The 20 HP Motor has low megaohms reading and will require a clean, dip and bake of the motor windings and new bearings should be installed as a precaution for future use. Otherwise, is reusable.

(5) A video log of the well performed on 8/10/18:
   a. The casing is 14-1/4" Diameter to 112.3-feet total depth. Note Drillers log reports well depth to be 150-feet casing; A November 2006 video report shows the depth at 110-feet 10".
   b. Perforations are vertical mill slot and are enlarged and are visible at 33-feet to 53.40-feet
   c. The casing appears to have several holes and/or tears and separations with enlarged perforations.
   d. Recommendations would include the installation of a liner in the well followed by a rehabilitation and redevelopment prior to installation of the pump.

Please note that General Pump Company has 6" X 1-3/16" Column, shafting and bearing retainers in stock that are very lightly used that can be competitively priced to replace these materials on this pump unit.

Please let us know if there is any additional information needed or questions about the above report and if anyone would like to visit our facility to see the equipment first hand.

Best Regards

Ray Reece

BONDY
Groundwater Consulting, Inc.

MEMORANDUM

To: Mike Hollebrands/ MOWD

From: Bryan Bondy / BGC

CC: Project File

Date: February 6, 2017

Re: Evaluation of Groundwater Supply Opportunities - Alluvium and Coldwater Formation

---

Background

In December 2016, you contacted Bondy Groundwater Consulting, Inc. (BGC) to discuss Meiners Oaks Water District's (MOWD's) water supply status. At that time, you requested a proposal to evaluate additional groundwater supply opportunities for the District. BGC's proposal dated December 28 described two tasks:

- Evaluate Alluvium Thickness: This task involved requesting well logs from Ventura County and reviewing the logs to evaluate whether thickness of the river alluvium is greater at locations other than MOWD's existing wells.

- Evaluate Coldwater Formation Well: This task involved reviewing readily available information concerning the groundwater production potential of Coldwater Formation, including prior work completed for the District.

This memorandum summarizes the results of the above described tasks.

Alluvium Evaluation

The District currently has four active wells completed in the river alluvium (Well Nos. 1, 2, 4, and 7). The District owns a fifth alluvial well (No. 8), but elevated concentrations of nitrate are preventing the District from using this well. The ongoing drought conditions have caused lower water table conditions in the alluvium, which has significantly reduced the District's well yields.

The purpose of this task was to evaluate whether there are locations within the District where the saturated thickness of the river alluvium is substantially greater than it is at MOWD's existing wells. A well installed in a substantially thicker, deeper portion of the alluvium could extend the District's water supply during droughts by allowing the District to pump from a lower portion of the aquifer.

Well completion forms for wells located within and surrounding the District were obtained from the County of Ventura and reviewed. MOWD also provided available well logs for Well Nos. 1,

4, and 7. Well logs for MOWD Well Nos. 2 and 8 were not available from either the County of Ventura or MOWD.

Table 1 below summarizes the depths of MOWD's wells. As indicated in the table, MOWD's wells range up to 240 feet in depth. The deepest wells are located in the southern part of the service area, where other wells also indicate thicker alluvium is present.

MOWD Well No.	State Well No.	Screen Interval (ft. below grade)
1	05N23W33B02	11.5-60
2	05N23W33B04	Well log not available (total depth >83 based on water level records)
4	04N23W09B05	20-240
7	04N23W09B04	70-156
8	04N23W04J01	76-126 per VC records Well log not available

Table 1. Screen Intervals of MOWD Wells

Based on review of available well logs and geologic maps, the alluvial deposits are relatively thin in the vicinity of MOWD, except beneath the Ventura River channel. Although alluvium is mapped across much of the MOWD service area, it is underlain by Sespe Formation at a relatively shallow depth, except in the northernmost portion of the District where the Coldwater Formation and Cozy Dell Shale underlie the alluvium. The yield of wells screened in the Sespe Formation is typically less than one hundred gallons per minute (gpm). Therefore, the Sespe Formation is not considered suitable for meeting MOWD's water supply needs. Few wells have been completed in the Cozy Dell Shale. The water production potential of the Coldwater Formation is discussed later in this memorandum.

Along the western edge of the MOWD service area, the Ventura River has cut into the aforementioned bedrock units and deposited highly productive alluvium. Based on review of available well logs, the alluvium appears to generally thicken from north to south in the vicinity of MOWD. Alluvium exceeding 200 feet in thickness was reported on well logs for wells located near MOWD Well No. 4 and further south. The thickest reported alluvium is at MOWD Well No. 4, although it is noted that well logs for numerous wells in the study area were either not available or did not contain well construction information. Furthermore, most wells have been drilled away from the active river channel where the alluvium could potentially be thicker. Based on the available information, it does not appear that the thickness of the river alluvium is likely substantially greater at locations other than MOWD's existing wells, particularly MOWD Well No 4.

If additional or replacement alluvial wells are considered in the future, it is recommended that a surface geophysical survey be conducted to assist in siting the well because the available data suggest that the alluvium thickness is quite variable. Geophysical survey techniques, such as seismic refraction/reflection or direct current (DC) resistivity, would allow the District to obtain alluvium thickness profiles at a relatively low cost. This information would help the District identify the optimal well location where the alluvium is thickest.

Coldwater Formation Evaluation

The purpose of this task was to evaluate the groundwater production potential of the Coldwater Formation in the vicinity of MOWD. This evaluation builds on prior work completed for the District in 2015. BGC reviewed the prior work completed for the District, readily available geologic references, and well logs for bedrock wells located along the base of the Santa Ynez and Topatopa Mountains from Meiners Oaks east through Ojai Valley and Upper Ojai Valley.

Prior Coldwater Formation Evaluation for MOWD

In July 2015, Kear Groundwater gave a presentation to MOWD titled "*Deep Groundwater Exploration: Targeting the Coldwater Sandstone.*" The presentation conclusions included the following:

1. The Coldwater Sandstone is a formation regionally targeted by public and private wells as a groundwater source;

2. The formation is highly variable in depth and outcrop elevation; and

3. The Coldwater Formation is most feasibly targeted at MOWD Well Nos. 1 and 2 where the outcrop is seen and can be shallowly accessed from MOWD-owned property.

The presentation recommendations were to collect bids from drillers to drill a test well and to monitor conditions. Subsequent to the presentation, Kear Groundwater provided construction guidelines for a new 8-inch diameter steel-cased well to be drilled to a depth of 1,200 feet (into the Coldwater Formation), with a design capacity of at least 200 gallons per minute. The proposed drilling method was air rotary, with conversion to mud rotary, as needed.

Geologic Setting

The Coldwater Formation is a sedimentary formation of Eocene age that consists of predominately of a hard arkosic sandstone with siltstone and shale interbeds. The Coldwater Formation is cemented and, therefore, has low primary porosity and permeability. Most of the groundwater contained in the formation is exists in joints and fractures (a.k.a. secondary porosity). Bedding planes and siltstone/shale interbeds within the formation are less permeable than the sandstone, causing groundwater flow to be directed parallel to the bedding.

In the vicinity of MOWD, the Coldwater Formation is encountered within the Matilija Overturn, which is a prominent large fold in Tertiary-aged rocks, located at the base of the Santa Ynez and Topatopa Mountains from Meiners Oaks east through Ojai Valley and Upper Ojai Valley (see Figures 1 and 2). As shown in Figure 2, the formations that comprise the Matilija Overturn have

been folded such that they dip nearly vertically into the earth and, in some cases, are overturned (upside down) and dip to the north.

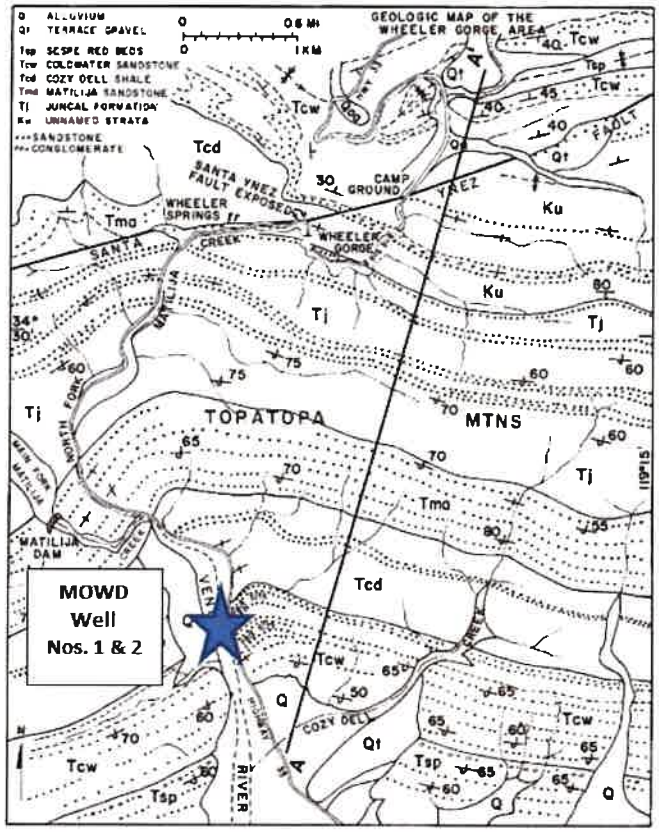


Figure 1. Matilija Overturn Cross Section Location Map[1]

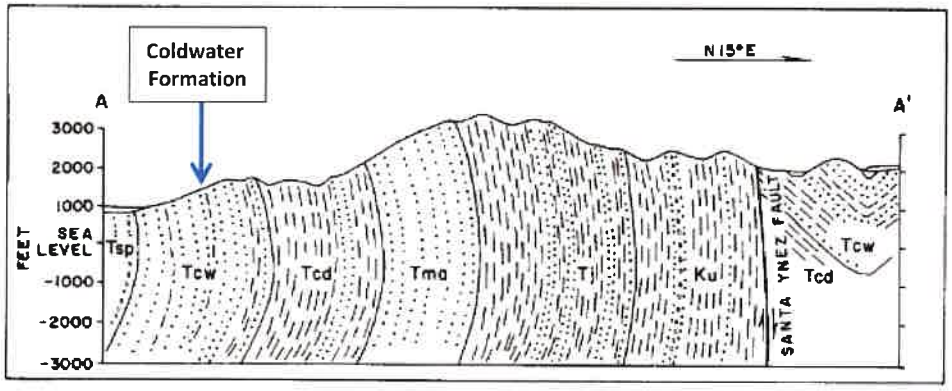


Figure 2. Cross Section through the Matilija Overturn[2]

[1] Source: Dibble, T. W., et al. Sedimentology of Cretaceous strata in Wheeler Gorge, Ventura County, California, in Centennial Field Guide Volume 1, Cordilleran Section of the Geological Society of America.

In the vicinity of MOWD Well Nos. 1 and 2, the orientation of the Coldwater Formation is quite variable (Figure 3). As shown in Figure 3, the Coldwater Formation transitions from overturned and dipping to the north on the west side of the Ventura River to being oriented right-side-up and dipping steeply to the southeast on the east side of the Ventura River. This is a very abrupt change in orientation that seems unlikely to have occurred without also being accompanied by fracturing and faulting.

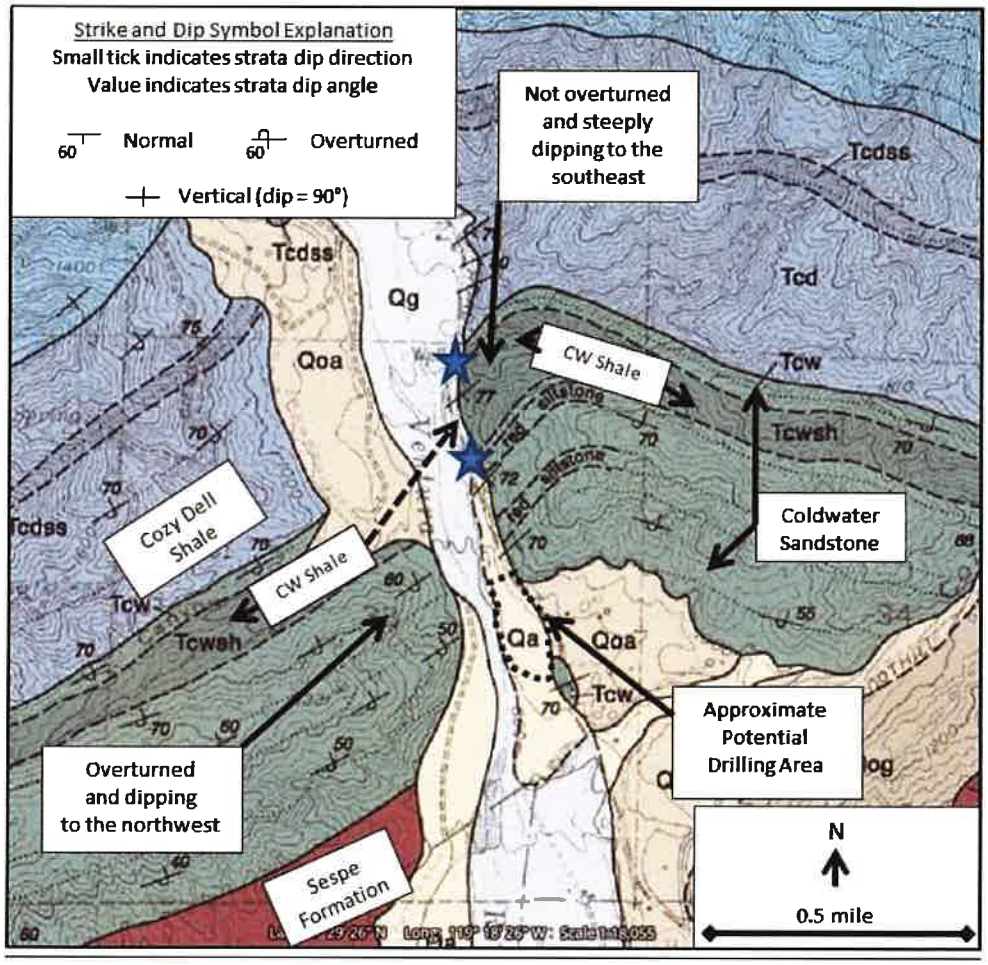


Figure 3. Geologic Map in the Vicinity of MOWD Well Nos. 1 and 2[3]
Blue stars indicate approximate location of MOWD Well Nos. 1 & 2. Note that the Coldwater Formation is overturned and dipping to the north on the west side of the Ventura River and right-side-up and dipping steeply to the southeast on the east side of the Ventura River.

[2] Source: same as previous
[3] Dibblee, T.W., and Ehrenspeck, H. E., ED: 1987. Geologic Map of the Matilija Quadrangle, Ventura County California. Dibblee Foundation Map DF-12. Accessed from https://ngmdb.usgs.gov/maps/mapview/, January 30, 2017.

Three additional lines of evidence suggest that the formation may be more heavily fractured and/or faulted in the vicinity of MOWD Well Nos. 1 and 2, as compared to other areas along the Matilija Overturn. First, it is noted that the abrupt change in orientation of the bedrock formations is coincident with the location of the Ventura River, which would tend to follow most easily erodible path[4], all other factors equal. Second, Google Earth images suggest that hillside southeast of MOWD Well No. 2 may have a higher concentration sandstone boulders compared to other Coldwater Formation exposures in the region. A higher concentration of boulders would indicate that the Coldwater Formation may be more heavily jointed/fractured in this area. Lastly, it is noted that Kear Groundwater mapped a fault south of MOWD Well No. 2 in 2015. If the formation is indeed more highly fractured in this area, the groundwater production potential of the formation may be greater than is suggested by wells drilled into the Coldwater Formation in other areas along the Matilija Overturn.

Potential Coldwater Formation Well Yields

Available well logs were obtained from Ventura County for bedrock wells located along the base of the Santa Ynez and Topatopa Mountains from Meiners Oaks east through Ojai Valley and Upper Ojai Valley.

The well locations were plotted on the geologic map and the well logs were reviewed to determine which formation the wells are completed in. Thirteen well locations with available logs were identified for wells completed in the Coldwater Formation. Eleven of these logs indicate the well yield. The reported yield of the eleven wells ranges from 20 to 220 gpm. The nearest Coldwater Formation well, located approximately ½ mile east-southeast of MOWD Well No. 2, is a 6-inch diameter irrigation well drilled to 550 feet below grade that reportedly yields 40 gpm. It is noted that well logs for a number of wells likely completed in the Coldwater Formation were not available from Ventura County.

Overall, the reported well yields indicate that the production potential of the Coldwater Formation in the vicinity of MOWD is relatively low (less than 220 gpm). However, it is noted that these wells are not located in the above-described area where the formation may be more highly fractured and, therefore, potentially more productive. It is also noted that many of the wells reviewed are small diameter domestic wells, which may bias the results to the low side.

Although a Coldwater Formation well drilled south of MOWD Well No. 2 may possibly achieve production capacity in excess of 200 gpm, the long-term yield of the well is a concern because the formation is exposed over only a relatively small surface area with steep terrain, which is not particularly conducive to groundwater recharge. If the goal of the well is to provide drought supplies, the long-term yield of the well may be less of a concern, as the Coldwater Formation would be allowed to recharge during wetter periods. An important source of recharge may be downward flow of groundwater from the overlying alluvium along the Ventura River channel.

[4] Highly fractured rock is more easily weathered and erodible than less fractured rock, all other factors equal.

If the producing zones that supply the well are found to be materially connected to the alluvium, it may be necessary to assess the pumping influence on river flow.

Coldwater Formation Well Siting Considerations

Should MOWD decide to pursue a Coldwater Formation well, selecting the best drill site possible will increase the chances for a productive well. Unfortunately, the areas immediately surrounding MOWD Well Nos. 1 and 2 are not ideal locations for targeting the main sandstone unit of Coldwater Formation. The following paragraphs describe anticipated subsurface conditions near MOWD Well Nos. 1 and 2 and an alternative recommended drilling area.

The MOWD Well No. 1 site is located near the contact of the Cody Dell Shale and the Coldwater Formation. The Coldwater Formation near MOWD Well No.1 consists of a thin sandstone bed overlain by a thicker shale unit (Figure 3). The bedrock units dip steeply to the southeast. A deep borehole drilled near MOWD Well No. 1 could encounter any of these units depending on the exact location and depth drilled. Shales are not a target zone for groundwater production. The sandstone bed may produce groundwater; however, targeting it could prove difficult because it is thin. Even if the sandstone bed is successfully targeted, the production capacity of this unit is expected to be less than the thicker section of sandstone located south of MOWD Well No. 2.

The MOWD Well No. 2 site is located near the contact of the shale unit and a siltstone unit of the Coldwater Formation (Figure 3). These bedrock units dip steeply to the southeast. A deep borehole drilled near MOWD Well No. 2 would likely encounter the shale unit to total depth, although it is possible that the borehole might intersect the previously described thin sandstone bed at depth. The shale unit is not a target zone for groundwater production. The sandstone bed may produce groundwater however, targeting it could prove difficult. Even if the sandstone bed is successfully targeted, the production capacity of this unit is expected to be less than the thicker section of sandstone located to the south.

A thicker section of sandstone is located south of MOWD Well No. 2 in the area indicated on Figure 3. Drilling in the indicated area would have a high probability of encountering sandstone and is located where the sandstone may be may be more heavily jointed/fractured, as discussed above. The indicated area is necessarily located toward the southern extent of the formation so as to minimize the risk of encountering the Coldwater siltstone units at depth. Geologic mapping should be performed before selecting a drill site. Unfortunately MOWD does not own property in this area and would need to secure an easement for a drilling site.

BONDY
Groundwater Consulting, Inc.

Coldwater Formation Drilling Considerations

Should MOWD decide to pursue a Coldwater Formation well, it is recommended that MOWD drill a small diameter exploratory hole first to approximately 1,000 feet below grade using the dual-wall reverse circulation rotary method. This method allows for the continuous discrete sampling of the formation and groundwater and estimation of aquifer yield at various depths, which is not easily or cost-effectively accomplished via other drilling methods. The purpose of the exploratory hole would be to:

1. Estimate the yield of the Coldwater Sandstone at various depths where water-producing fractures are encountered;

2. Obtain representative groundwater samples at these same depths to assess water quality;

3. Use the above information to assess whether it makes sense for MOWD to pursue a well. If MOWD decides to pursue the well, the above information would be used for design purposes.

The cost for an exploratory hole as described above is approximately $50,000 plus geologist oversight and lab fees for water quality testing. This is compared to the cost of drilling a pilot hole for a well (estimated to be $100,000 - $150,000), which would provide less certain information concerning the production potential and water quality. Depending on the drilling rig used and size of the exploratory hole, it may be possible to use the exploratory hole as pilot hole for completion of a well (rig capabilities and tooling vary with drilling company).

The benefit of drilling an exploratory hole first is that it minimizes the project cost should it be determined that a well is not viable. If the exploratory hole results lead to a decision to construct a well, the data obtained from the exploratory hole will help minimize the well costs by ensuring that the well is drilled using the most cost-effective method possible and that it is not overdesigned in terms of diameter, depth, and materials. For example, the exploratory hole results may suggest that an open hole completion may be viable, which could result in savings in excess of the cost of the exploratory hole itself. The approach also minimizes risk for the District. For example, zones with poor quality water, if present, could be identified and avoided.

Conclusions and Recommendations

Alluvium

1. It does not appear that the thickness of the river alluvium is likely substantially greater at locations other than MOWD's existing wells, particularly MOWD Well No 4.

2. If additional or replacement alluvial wells are considered in the future, it is recommended that a surface geophysical survey be conducted to assist in siting the well because the available data suggest that the alluvium thickness is quite variable.

Coldwater Formation

1. Overall, reported well yields indicate that the production potential of the Coldwater Formation in the region is relatively low (less than 220 gpm). However, review of available information suggests that the formation may be more highly fractured in the vicinity of MOWD Well Nos. 1 and 2. Thus, it may be possible to achieve a well yield in excess of 200 gpm.

2. If MOWD, decides to pursue a Coldwater Formation well, the recommended location is south of MOWD Well No. 2 in the area indicated on Figure 3 where there is a high probability of encountering the thicker Coldwater Formation sandstone unit and a lower probability of encountering the mapped Coldwater Formation shale and siltstone units. Geologic mapping should be performed before selecting a drill site.

3. Although a Coldwater Formation well drilled south of MOWD Well No. 2 may possibly achieve production capacity in excess of 200 gpm, the long-term yield of the well is a concern because the formation is exposed over only a relatively small surface area with steep terrain, which is not particularly conducive to groundwater recharge. If the goal of the well is to provide drought supplies, the long-term yield of the well may be less of a concern, as the Coldwater Formation would be allowed to recharge during wetter periods.

4. If the producing zones that supply a Coldwater Formation well are found to be materially connected to the alluvium, it may be necessary to assess the pumping influence on river flow.

5. Should MOWD decide to pursue a Coldwater Formation well, it is recommended that MOWD drill a small diameter exploratory hole first to approximately 1,000 feet below grade using the dual-wall reverse circulation rotary method to assess the formation production potential and water quality.

Limitations

This memorandum was prepared by Bondy Groundwater Consulting, Inc. (BGC) for Meiners Oaks Water District. BGC has employed accepted geologic and hydrogeologic procedures and its opinions are made in accordance with generally accepted principles and practices of these professions. The analyses, conclusions, and recommendations contained in this report reflect BGC's best judgment in light of the information readily available to BGC at the time of preparation and experience with similar projects. All locations depicted and/or described in the report are approximate and are provided as general information only. Interpretations, location descriptions, location depictions, conclusions, and other information presented in this report should not be relied upon to site or design wells or any other infrastructure without field confirmation and are contingent upon BGC being retained to perform such confirmation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. BGC accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Closing

Please contact me if you have any questions regarding this memorandum. The opportunity to assist MOWD is greatly appreciated.

MEINERS OAKS WATER DISTRICT
VENTURA COUNTY SINCE 1949
(805) 646-2114
202 WEST EL ROBLAR DRIVE

Nitrate Removal at MOWD Well No. 8

Project Summary Prepare a feasibility study of treatment options to remove high nitrates from MOWD's Well No. 8. In this phase of the project it is intended to hire a civil engineering consultant with expertise in water treatment to evaluate the potential project and provide cost estimates. Of particular concern will be options for brine disposal.

Project Need MOWD depends entirely on local water supplies. A few years ago, due to the current drought, MOWD's wells went dry for the first time in 65 years. For a while MOWD was 100% dependent on water from Lake Casitas. The lake now holds 35% of capacity and there is a chance that the lake could go dry in the next 4-5 years. Without water, real estate values would plummet and people would be forced to move out of the Ojai Valley.

Meanwhile, MOWD has a functional well (No. 8) that is unused because its nitrate levels exceed drinking water standards. During droughts, every water source should be put to use, if possible.

Project Schedule The time for the lake to go dry is predicted to be 4 years or more, depending on intervening rainfall and levels of water conservation achieved. The study would be done early in that period, to allow the results to be considered in future drought response planning.

Funding Sources MOWD has sufficient reserves to fund the early stages of this project. It is intended to incorporate the project into the district's FY2018-19 budget. Future water rates would be adjusted to fund this and other projects in response to the severity of the drought and levels of conservation achieved.

MEINERS OAKS WATER DISTRICT
VENTURA COUNTY SINCE 1949
(805) 646-2114
202 WEST EL ROBLAR DRIVE

Cold Water Well

Project Summary Drill a test well in the relatively untapped "Cold Water Formation" near the Ventura River near MOWD's existing Well Nos. 1 and 2. Preliminary hydrogeologic and siting studies have been done. If the test phase is successful, a new well would be completed and connected to MOWD's water system. The project includes hydrogeological studies, right-of-way, test drilling, well construction, connection pipelines and appurtenances.

Project Need MOWD depends entirely on local water supplies. A few years ago, due to the current drought, MOWD's wells went dry for the first time in 65 years. For a while MOWD was 100% dependent on water from Lake Casitas. The lake now holds 35% of capacity and there is a chance that the lake could go dry in the next 4-5 years. Without water, real estate values would plummet and people would be forced to move out of the Ojai Valley. The Cold Water Well would provide a backup emergency supply in that event. Depending on water quality, it might provide a supply in normal years as well, in place of wells near the Ventura River. Nevertheless, its primary purpose would be to serve as an emergency backup well.

Project Schedule The time for the lake to go dry is predicted to be 4-5 years or more, depending on intervening rainfall and levels of water conservation achieved. The test drilling would be done early in that period, to allow the results to be considered in drought response planning.

Funding Sources MOWD has sufficient reserves to begin the project and proceed through the pilot testing phase. If necessary, the project will be incorporated into the district's FY2018-19 budget. Future water rates would be adjusted to fund this and other projects in response to the severity of the drought and levels of conservation achieved.

Table 25. An exercise in the estimation of treatment costs based on appropriate technology for various nitrate levels.[1]

System Size (people)	Raw Nitrate Level	Treatment Type	O&M Cost Range (Avg.)[2]	Annualized Combined Cost Range (Avg.)
			$/1000 gallons	$/1000 gallons
Very Small (25 – 500)	1X MCL	Ion Exchange	0.28 – 3.81 (1.22)	0.62 – 4.60 (1.97)
	2X MCL	Ion Exchange	0.35 – 10.48 (2.13)	0.69 – 11.27 (2.88)
	3X MCL	Ion Exchange	0.42 – 17.15 (3.05)	0.76 – 17.94 (3.80)
	3X MCL	Reverse Osmosis	0.22 – 16.16 (4.22)	0.69 – 19.16 (6.64)
Small (501 – 3,300)	1X MCL	Ion Exchange	0.15 – 2.63 (0.87)	0.34 – 2.73 (1.05)
	2X MCL	Ion Exchange	0.19 – 7.23 (1.52)	0.38 – 7.33 (1.70)
	3X MCL	Ion Exchange	0.23 – 11.84 (2.18)	0.42 – 11.94 (2.36)
	3X MCL	Reverse Osmosis[3]	0.23 – 1.15 (0.57)	0.58 – 1.34 (0.93)
Medium (3,301 – 10,000)	1X MCL	Ion Exchange	0.12 – 1.69 (0.84)	0.36 – 2.04 (1.06)
	2X MCL	Ion Exchange	0.15 – 4.65 (1.47)	0.39 – 5.00 (1.60)
	3X MCL	Ion Exchange	0.18 – 7.61 (2.10)	0.42 – 7.96 (2.32)
	3X MCL	Reverse Osmosis[3]	0.91 – 2.76 (1.89)	1.35 – 3.39 (2.59)
Large (10,001 – 100,000)	1X MCL	Ion Exchange	0.13 – 1.39 (0.66)	0.22 – 1.81 (0.97)
	2X MCL	Ion Exchange	0.16 – 3.82 (1.16)	0.25 – 4.24 (1.46)
	3X MCL	Ion Exchange	0.20 – 6.26 (1.65)	0.29 – 6.68 (1.96)
	3X MCL	Reverse Osmosis	0.40 – 2.21 (1.48)	0.73 – 3.67 (2.38)

[1] This table is strictly an example and is not intended to be definitive, but only to suggest how treatment costs might change with increasing nitrate levels. The estimated increase in O&M costs is wide ranging, 25% – 175%, and depends on many factors including water quality parameters, disposal options, resin capacity, resin type, and ion exchange system design. As nitrate levels increase, salt, disposal, and resin costs for IX will increase (O&M). Reverse osmosis costs will increase with increasing TDS, but not at the same rate, this cannot currently be estimated. Depending on other water quality parameters, the costs of IX are predicted to surpass those of RO. In the future, biological denitrification will likely be considered as an option for > 2X the nitrate MCL. Additionally, increasing the number and/or size of resin vessels to address higher nitrate levels would increase capital costs. O&M costs would still increase; in practice the system would be designed to optimize costs. O&M increases were considered here as an example. Actual costs with increasing nitrate levels for specific systems may vary significantly from listed costs and should be assessed by professional engineers.

[2] Increases in O&M are estimated from a limited dataset comprised of vendor cost estimates for IX costs with nitrate levels increasing from just above the MCL to slightly more than double the MCL. All available cost information was included in the 1X MCL scenario as a starting point, including systems with nitrate levels above 1X the MCL.

[3] Limited dataset for the indicated system size and treatment type.

Table 24. Summary of anion exchange and reverse osmosis cost information by system size.

System Size (people)	Design Flow Range (typical average flow range) MGD	Treatment Type	Annualized Costs in $/1000 gallons		
			Capital Cost Range (Avg.) $/1000 gallons	O&M Cost Range (Avg.) $/1000 gallons	Total Combined Cost Range (Avg.) $/1000 gallons
Very Small (25 – 500)	0.009 – 0.17 (0.002 – 0.052)	Ion Exchange	0.05 – 1.53 (0.75)	0.28 – 3.81 (1.22)	0.62 – 4.60 (1.97)
		Reverse Osmosis	0.47 – 4.40 (2.43)	0.22 – 16.16 (4.22)	0.69 – 19.16 (6.64)
Small (501 – 3,300)	0.17 – 1.09 (0.052 – 0.39)	Ion Exchange	0.08 – 0.25 (0.15)	0.15 – 2.63 (0.87)	0.34 – 2.73 (1.05)
		Reverse Osmosis[1]	0.19 – 1.13 (0.47)	0.23 – 1.15 (0.57)	0.58 – 1.34 (0.93)
Medium (3,301 – 10,000)	1.09 – 3.21 (0.39 – 1.3)	Ion Exchange	0.06 – 0.52 (0.19)	0.12 – 1.69 (0.84)	0.36 – 2.04 (1.06)
		Reverse Osmosis[1]	0.44 – 0.63 (0.53)	0.91 – 2.76 (1.89)	1.35 – 3.39 (2.59)
Large (10,001 – 100,000)	3.21 – 30.45 (1.3 – 15.51)	Ion Exchange	0.09 – 0.41 (0.26)	0.13 – 1.39 (0.66)	0.22 – 1.81 (0.97)
		Reverse Osmosis	0.33 – 1.46 (0.97)	0.40 – 2.21 (1.48)	0.73 – 3.67 (2.38)

[1] Limited data set for the indicated system size and treatment type.

Deep Groundwater Exploration: Targeting the Coldwater Sandstone

Meiners Oaks Water District

Jordan Kear, PG, CHG

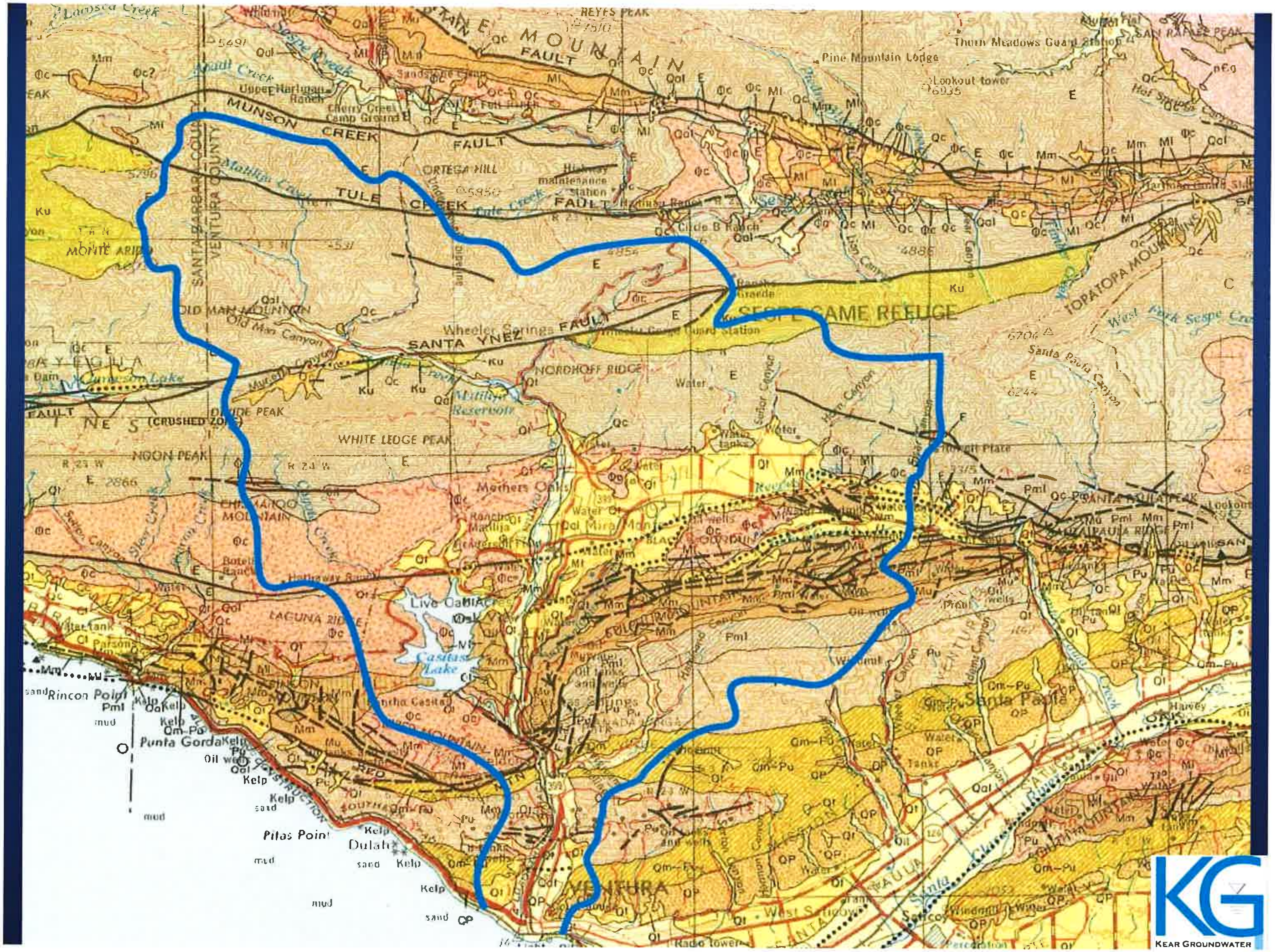
21 July 2015

KEAR GROUNDWATER

Summary and Conclusions

- Coldwater Sandstone is a formation regionally targeted by public and private wells as a groundwater source
- Highly variable in depth and outcrop elevation due to tectonic factors
- Most feasibly targeted at Well 1 and 2 Plant where outcrop is seen and can be shallowly accessed from MOWD-owned property

KG
KEAR GROUNDWATER



PINE MOUNTAIN FAULT
MUNSON CREEK FAULT
TULE CREEK FAULT
SANTA YNEZ FAULT
Wheeler Springs
SESPE GAME REFUGE
TOPATOPA MOUNTAINS
SANTA BARBARA COUNTY
VENTURA COUNTY
Matilija Creek
Matilija Reservoir
Sespe Creek
Pine Mountain Lodge
Thorn Meadows Guard Station
Lookout tower
ORTEGA HILL
NORDHOFF RIDGE
WHITE LEDGE PEAK
NOON PEAK
OLD MAN MOUNTAIN
Old Man Canyon
Senior Canyon
Horn Canyon
Santa Paula Canyon
SANTA PAULA PEAK
SANTA PAULA RIDGE
Mothers Oaks
Live Oak Acres
Casitas Lake
LAGUNA RIDGE
Rincon Point
Punta Gorda
Pitas Point
Dulah
Santa Paula
VENTURA
Radio tower
Kelp
sand
mud

KG
KEAR GROUNDWATER

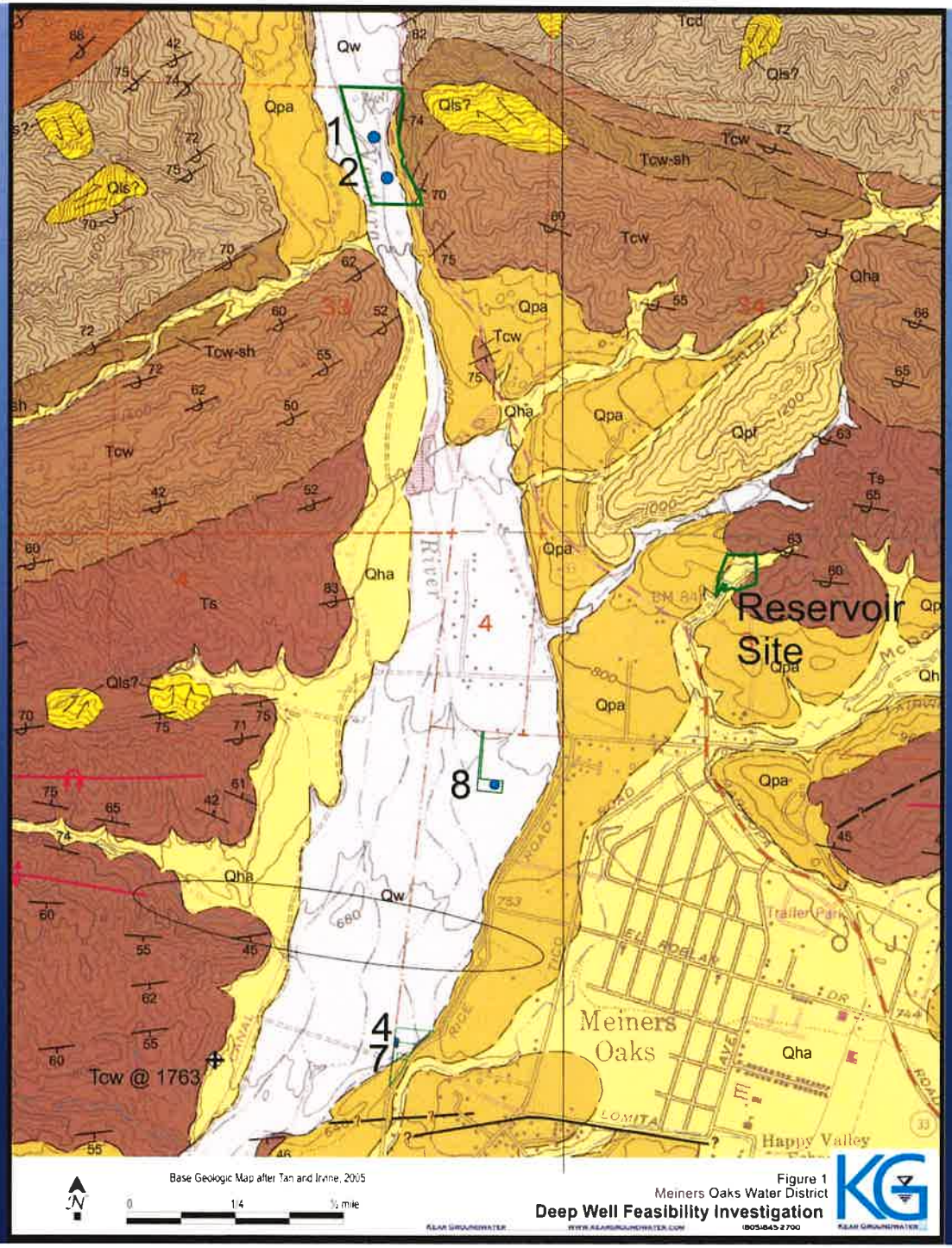
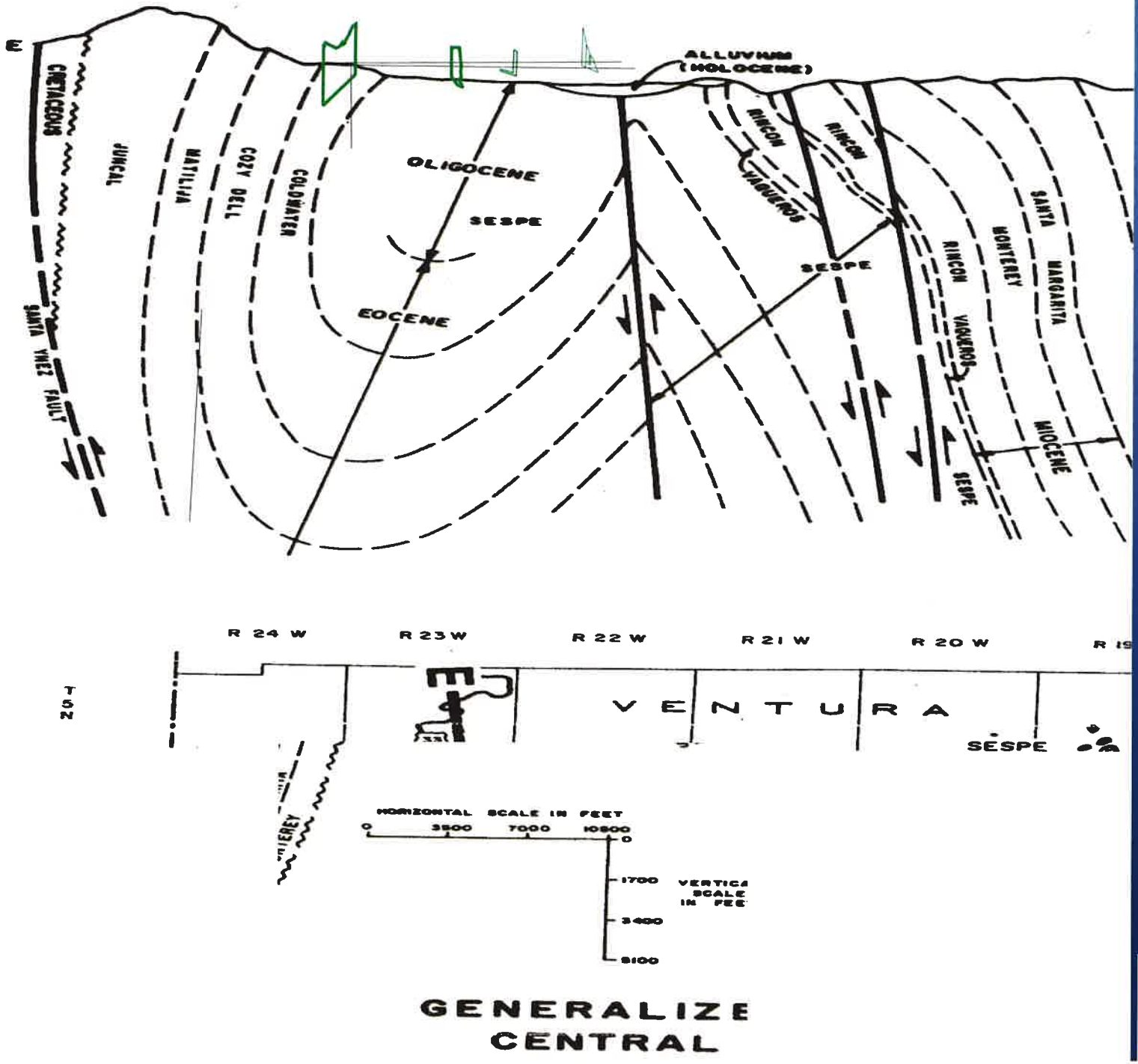


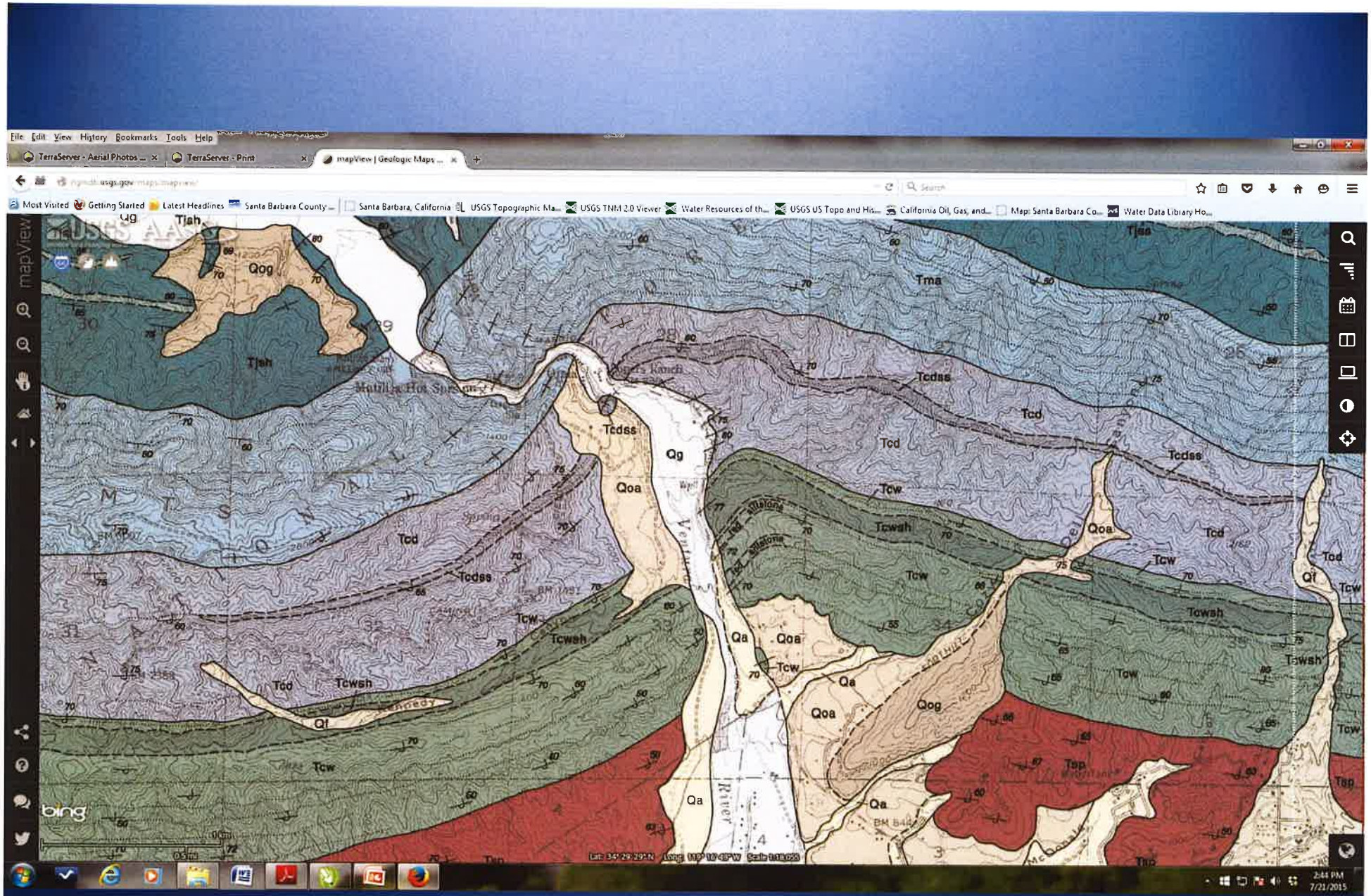
Figure 1
Meiners Oaks Water District
Deep Well Feasibility Investigation

KEAR GROUNDWATER

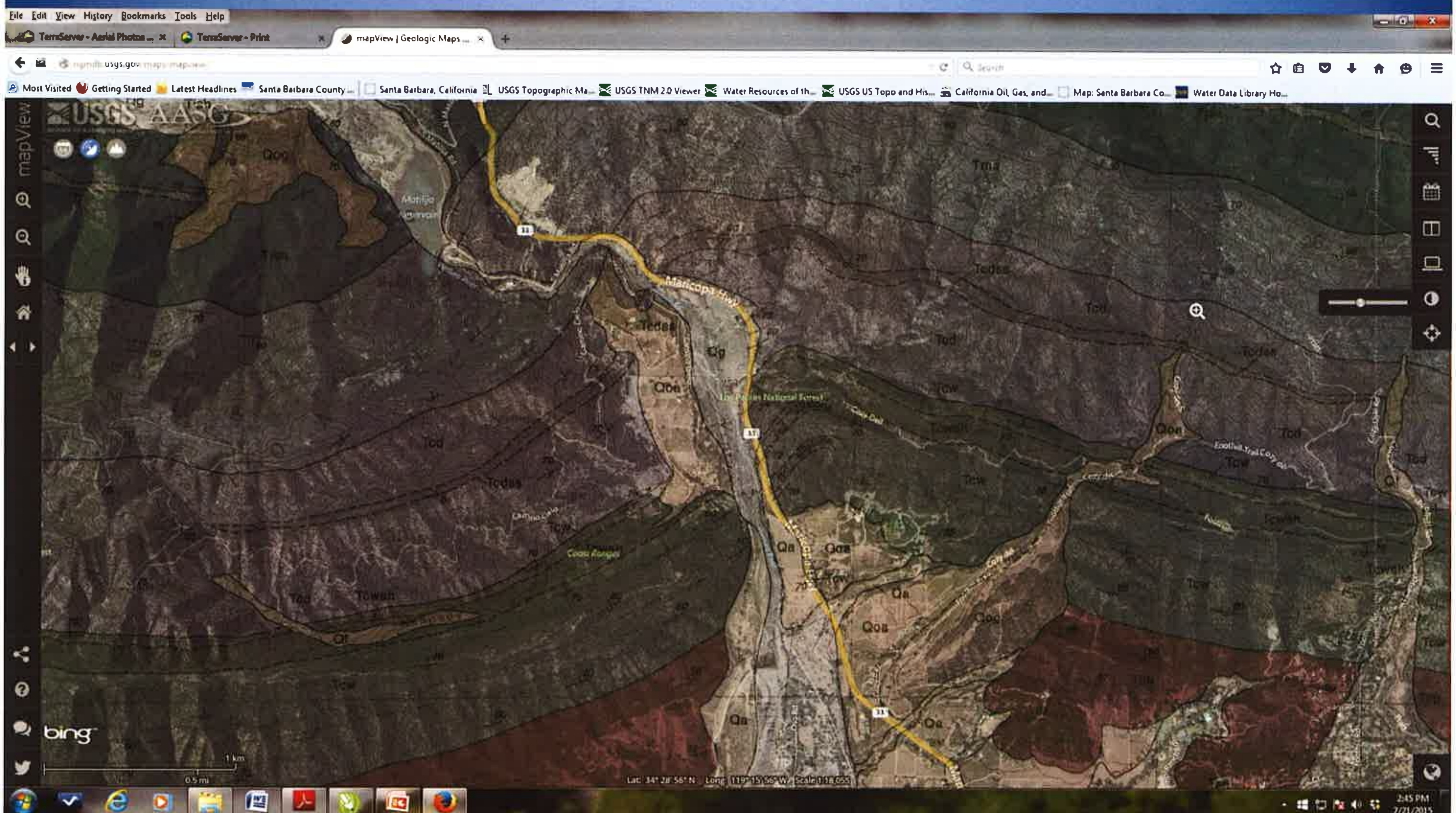


GENERALIZE
CENTRAL

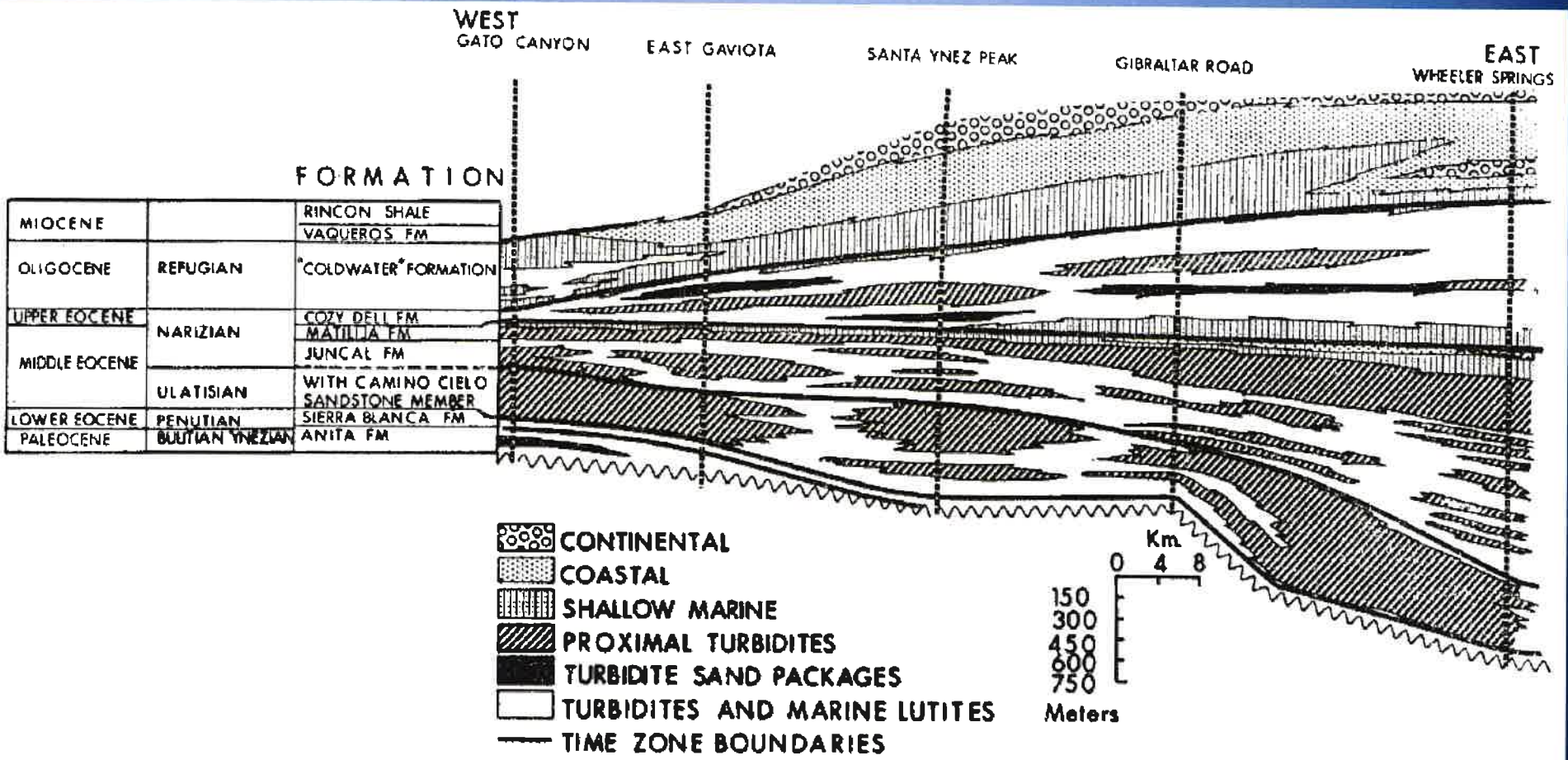
KEAR GROUNDWATER

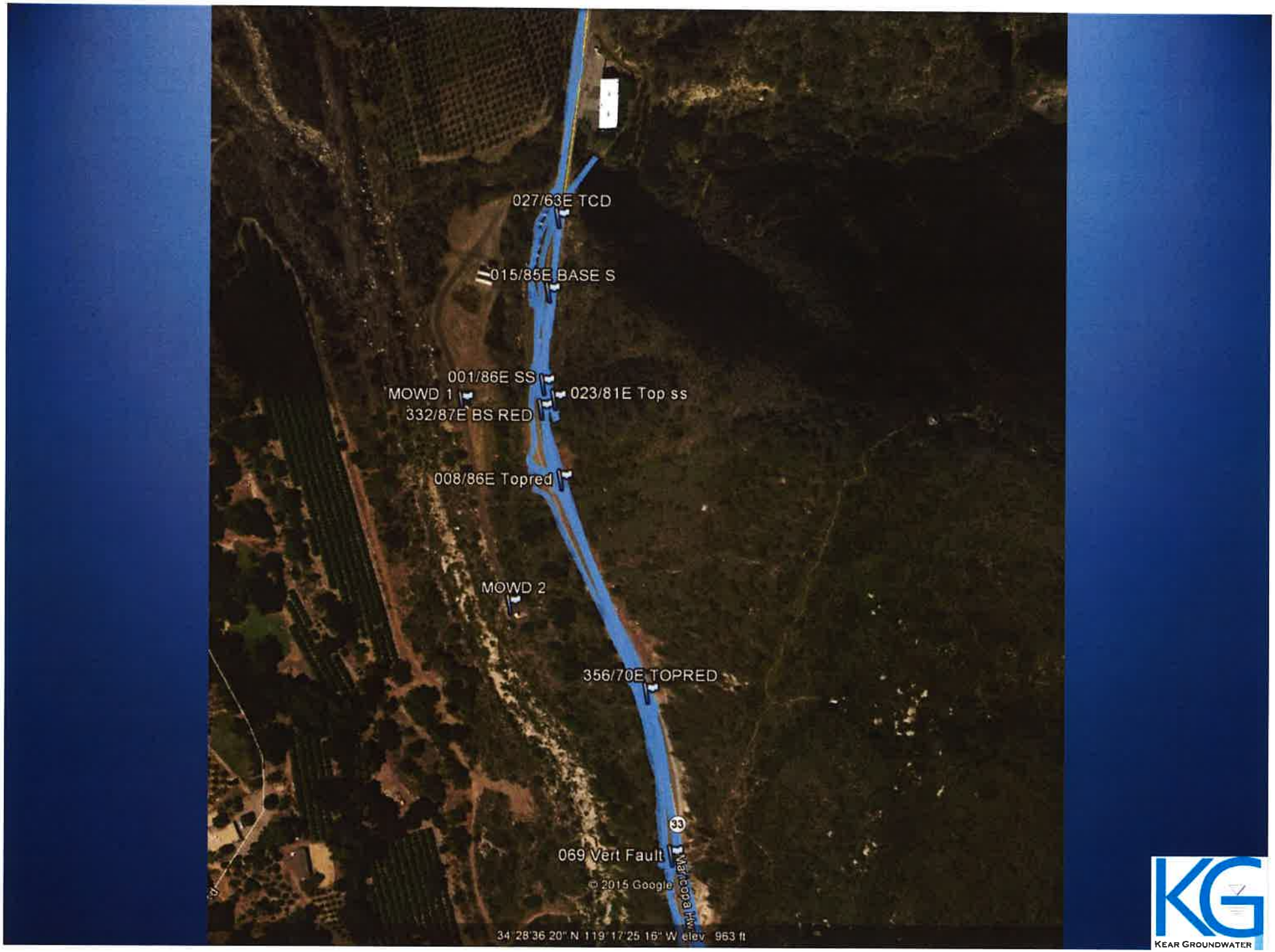


KEAR GROUNDWATER



KEAR GROUNDWATER


WEST
GATO CANYON
EAST GAVIOTA
SANTA YNEZ PEAK
GIBRALTAR ROAD
EAST
WHEELER SPRINGS
FORMATION
MIOCENE
RINCON SHALE
VAQUEROS FM
OLIGOCENE
REFUGIAN
"COLDWATER" FORMATION
UPPER EOCENE
NARIZIAN
COZY DELL FM
MATILIJA FM
MIDDLE EOCENE
JUNCAL FM
ULATISIAN
WITH CAMINO CIELO SANDSTONE MEMBER
LOWER EOCENE
PENUTIAN
SIERRA BLANCA FM
PALEOCENE
BULTIAN YNEZIAN
ANITA FM
CONTINENTAL
COASTAL
SHALLOW MARINE
PROXIMAL TURBIDITES
TURBIDITE SAND PACKAGES
TURBIDITES AND MARINE LUTITES
TIME ZONE BOUNDARIES
Km
0 4 8
150
300
450
600
750
Meters



KEAR GROUNDWATER

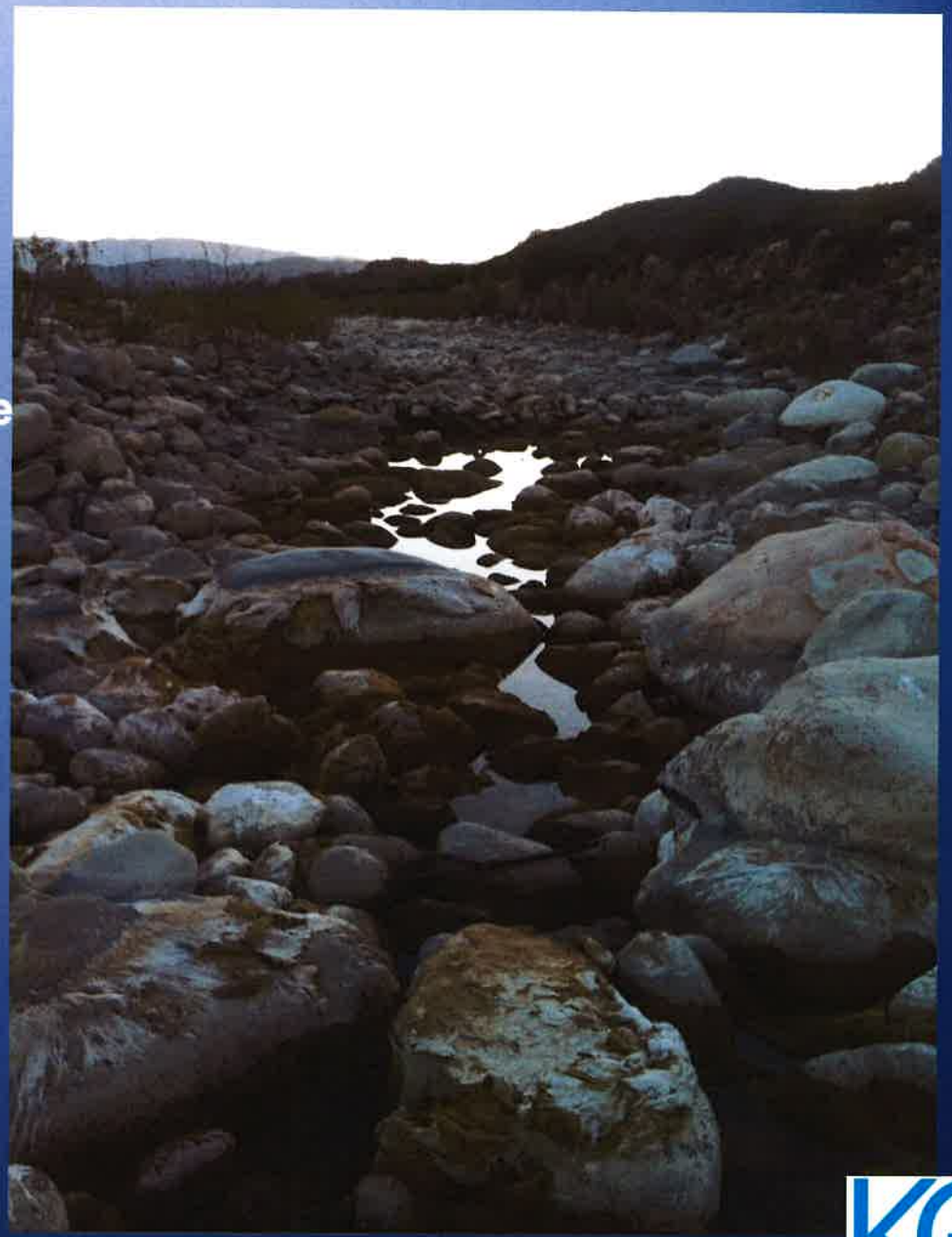
KEAR GROUNDWATER

KEAR GROUNDWATER
33
Coldwater Silts
Coldwater Sandstone
MOWD Tcw Test Hole
MOWD Well No. 2
0
200
400
800
1000
1200
Alluvium
Cozy Dell Shale

River interference must be tested

Monitor Water Levels in test hole

-Effects of river Flow
-Effects of Well Pumping
-Test pumping of test well



KG
KEAR GROUNDWATER

Recommendations

- Collect bids from drillers to drill test hole and complete as test well
- Monitor conditions

KG
KEAR GROUNDWATER

"Water is where you find it..."

Jordan Kear, PG, CHG
(805)512-1516
www.keargroundwater.com
jordan@keargroundwater.com

KEAR GROUNDWATER