

*In light of the Governor's Executive Orders N-25-20 dated March 12, 2020 and N-29-20 dated March 17, 2020 (collectively, the "Executive Order") issued in response to the Covid-19 outbreak, the WQA Board Has Suspended Application of Certain Public Meeting Requirements otherwise required under Brown Act during the term of the Executive Order, Including Restrictions and Noticing Requirements Relating to the Conduct of Teleconferenced Board Meetings.*

*Due to the essential nature of the WQA Board Meetings in conducting Authority business, the WQA Board meeting will take place via online and teleconference.*

*Copies of Executive Order will be made available to members of the public upon request.*

**You may join the meeting by clicking on the following link:**

<https://attendee.gotowebinar.com/register/8658443373437611789>

Public comments can be emailed prior to the meeting to [stephanie@wqa.com](mailto:stephanie@wqa.com)

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**A REGULAR MEETING  
OF THE  
SAN GABRIEL BASIN WATER QUALITY AUTHORITY  
AT  
1720 W. CAMERON AVENUE, SUITE 100  
WEST COVINA, CALIFORNIA**

**WEDNESDAY, NOVEMBER 18, 2020 AT 12:00 P.M.**

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**AGENDA**

**I. CALL TO ORDER MARQUEZ**

**II. PLEDGE OF ALLEGIANCE**

**III. ROLL CALL OF BOARD/COMMITTEE MEMBERS MORENO**

Jorge Marquez, Chairman	_____	_____ (alt)
Bob Kuhn, Vice-Chairman	_____	_____ (alt)
Mark Paulson, Treasurer	_____	_____ (alt)
Valerie Munoz, Secretary	_____	_____ (alt)
Lynda Noriega	_____	_____ (alt)
Mike Whitehead	_____	_____ (alt)
Ed Chavez	_____	_____ (alt)

**IV. PUBLIC COMMENTS (Agendized Matters Only): MARQUEZ**

As provided under Government Code Section 54954.3, this time has been set aside for persons in the audience to provide comment or make inquiries on matters appearing on this Special Meeting agenda only. Please complete the appropriate request card and submit it to the Secretary, prior to the item being heard. A five-minute time limit on remarks is requested.

**V. WORKSHOP SCHOELLERMAN**

***"Proposition 1 – Regional Site Investigation South El Monte Operable Unit"***

**VI. ITEMS TOO LATE TO BE AGENDIZED - Recommended Action: MARQUEZ**

Approve motion determining need to take action on item(s) which arose subsequent to posting of the Agenda (ROLL CALL VOTE: Adoption of this recommendation requires a two-thirds vote of the Board or, if less than two-thirds of Board members are present, a unanimous vote)

**VII. CONSENT CALENDAR MARQUEZ**

(Consent items may all be approved by single motion) [enc]

- (a) Minutes for 10/21/20 Regular Board Meeting
- (b) Minutes for 11/10/20 Administrative/Finance Committee – Special Joint Meeting
- (c) Minutes for 11/10/20 Legislative/Public Information Committee – Special Joint Meeting
- (d) Demands on Administrative Fund
- (e) Demands on Project Fund

**VIII. COMMITTEE REPORTS**

(These items may require action)

- (a) Administrative/Finance Committee Report [enc]
  - 1. Discussion/Action Regarding Wildermuth Task Order for Database and Animation Updates [enc]
  - 2. Discussion/Action Regarding Wildermuth Task Order for 3D Transport Model Needs Assessment [enc]
- (b) Legislative/Public Information Committee Report [enc]

**IX. OTHER ACTION/INFORMATION ITEMS MARQUEZ**

(These items may require action)

None.

**X. PROJECT REPORTS COLBY**

- (a) Treatment Plants:

1.	Baldwin Park Operable Unit	<u>Status</u>
	• Arrow/Lante Well (Subarea 1)	Operational
	• Monrovia Wells	Operational
	• SGVWC B6 Plant	Operational
	• SGVWC B5 Plant	Operational
	• CDWC Well No. 14	Operational
	• La Puente Valley County Water District	Operational
2.	El Monte Operable Unit	
	• Eastern Shallow Zone	Operational
	• Eastern Deep Zone	Operational
	• GSWC Encinita Plant	Operational
	• Western Shallow Zone	Operational
3.	South El Monte Operable Unit	
	• Whitmore Street. Ground Water Remediation	Operational

- Treatment Facility
- City of M.P. Well No. 5 VOC Treatment Facility Operational
- City of M.P. Well No. 12 VOC Treatment Facility Operational
- City of M.P. Well No. 15 Operational
- City of M.P. Well Nos. 1, 3, 10 VOC Treatment Facility Operational
- GSWC Wells SG-1 & SG-2 Operational
- SGVWC Plant No. 8 Operational
- 4. Puente Valley Operable Unit
  - Shallow Zone Design
  - Deep Zone Construction
- 5. Area 3 Operable Unit
  - City of Alhambra Phase 1 Operational
  - City of Alhambra Phase 2 Operational

**XI. ATTORNEY'S REPORT** **PADILLA**

**XII. LEGISLATIVE REPORT** **MONARES**

**XIII. EXECUTIVE DIRECTOR'S REPORT** **SCHOELLERMAN**

**XIV. FUTURE AGENDA ITEMS** **MARQUEZ**

**XV. INFORMATION ITEMS [enc]** **MARQUEZ**

- (a) San Gabriel Basin Water Calendar

**XVI. FUTURE BOARD/COMMITTEE MEETINGS** **MARQUEZ**

- (a) The next Administrative/Finance Committee Meeting is scheduled for Tuesday, December 8, 2020 at 10:00am
- (b) The next Engineering Committee Meeting was scheduled for Tuesday, December 8, 2020 at 11:00am
- (c) The next Legislative/Public Information Committee meeting was scheduled for Wednesday, December 9, 2020 at 11:00am
- (d) The next WQA Board meeting is scheduled for Wednesday, December 16, 2020 at 12:00 P.M. at WQA

**XVII. BOARD MEMBERS' COMMENTS/REPORTS** **MARQUEZ**

**XVIII. ADJOURNMENT** **MARQUEZ**

*Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the Authority's business office located at 1720 W. Cameron Ave., Suite 100, West Covina, CA 91790, during regular business hours. When practical, these public records will also be made available on the Authority's internet web site, accessible at [www.wqa.com](http://www.wqa.com).*

# DRAFT

## A REGULAR MEETING OF THE SAN GABRIEL BASIN WATER QUALITY AUTHORITY OCTOBER 21, 2020 AT 12:00 P.M.

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*To the extent authorized by the Governor's Executive Order N-25-20 dated March 12, 2020 ("Executive Order") issued in response to the Covid-19 outbreak, the WQA Board Reserved the Right to Suspend Application of Certain Public Meeting Requirements Under the Brown Act during the term of the Executive Order, Including Restrictions and Noticing Requirements Relating to the Conduct of Teleconferenced Board Meetings.*

*Due to the essential nature of the WQA Board Meetings in conducting Authority business, the WQA Board meeting took place online and teleconference.*

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### CALL TO ORDER

The Chairman called the regular meeting of the San Gabriel Basin Water Quality Authority to order and reviewed the actions anticipated on the agenda for the meeting.

### ROLL CALL OF BOARD MEMBERS

Jorge Marquez, Bob Kuhn, Mark Paulson, Lynda Noriega (entered late), Mike Whitehead, and Ed Chavez.

### BOARD MEMBERS ABSENT

Valerie Munoz

### STAFF MEMBERS PRESENT

Randy Schoellerman, Executive Director; Mary Saenz, Director of Finance; Stephanie Moreno, Executive Assistant/Outreach Coordinator; Dan Colby, Assistant Executive Director/Senior Project Manager; Michelle Sanchez, Admin/Accounting Assistant; Richard Padilla, Legal Counsel

### MEMBERS OF THE PUBLIC PRESENT

None.

### MEMBERS OF THE PUBLIC THAT PARTICIPATED VIA ONLINE/TELECONFERENCE

Al Contreras, Upper District; Gabriel Monares, The Monares Group; Ken Manning, WQA Consultant; Craig Gott, Suburban Water Systems; Garry Hoffer, Cal American Water Company; David Muse, Valley County Water District; Brian Bowcock, Three Valleys Municipal Water District; Ken Reich, Suburban Water Systems

### PUBLIC COMMENT

None.

### ITEMS TOO LATE TO BE AGENDIZED

None.

### CONSENT CALENDAR

Mr. Paulson moved to approve the consent calendar. Mr. Kuhn seconded the motion and it was approved. Mr. Whitehead abstained from Project Demand No: E90977.

### COMMITTEE REPORTS

#### *Administrative/Finance Committee Report*

Mr. Schoellerman reported that the minutes for the committee meeting were enclosed for review.

*Report on Cash and Investments  
for 3<sup>rd</sup> Quarter 2020.*

Ms. Saenz reported that the quarterly report on cash and investments as of September 30, 2020 was enclosed for review. She indicated that the average monthly effective yields for the Pooled Money Investment Account (PMIA) for July, August and September 2020 were 0.920%, 0.784% and 0.685%, respectively. She noted that the Local Agency Investment Fund (LAIF) quarterly rate for July through September 2020 was 0.84%, with quarterly interest earned of \$13,832.37. She reported that this was to receive and file.

*Discussion/Action Regarding  
Continued Participation in the  
Coalition for Environmental  
Restoration and Development*

Mr. Schoellerman reported that for the last several years, the WQA participated with the Coalition for Environmental Protection, Restoration and Development (CEPRD) in the development of a Division of Drinking Water policy 97-005 user guide to benefit all communities statewide. He indicated that staff is now recommending continuing that participation and support of the group in furtherance of policies regarding contaminants of emerging concern (CECs) such as PFAS and PFOA. He noted that the cost for the continued participation was \$25,000.

After brief discussion Mr. Kuhn moved to approve the continued participation in the CEPRD. Mr. Whitehead seconded the motion and it was unanimously approved.

*Legislative/Public Information  
Committee Report*

Mr. Schoellerman reported that the minutes for the committee meeting were enclosed for review.

**OTHER  
ACTION/INFORMATION  
ITEMS**

Ms. Noriega entered the meeting.

*Adopt Resolution No. 20-006*

Mr. Schoellerman reported that in December 2019, the WQA Board approved Resolution 19-008 authorizing staff to enter into a funding agreement and designating representatives for WQA's Proposition 68 San Gabriel Basin Regional Groundwater Remediation Program. The resolution was required as part of the application package submitted in January 2020 that included two separate applications, one for projects serving disadvantaged communities (DACs) and one for projects serving non-disadvantaged communities. He noted that as the only projects qualifying for the DAC designation are city of El Monte projects the application was notated with "El Monte" added to the program title. He indicated that the State Water Resources Control Board has determined that it would be appropriate for the WQA Board to also approve a similar resolution with the "El Monte" added to the Resolution title.

After brief discussion, Ms. Noriega moved to adopt Resolution No. 20-006. Mr. Kuhn seconded the motion and it was adopted by the following roll call vote:

AYES: MARQUEZ, KUHN, PAULSON,  
NORIEGA, WHITEHEAD, CHAVEZ

NO: NONE.

ABSENT: MUNOZ

## **PROJECT REPORTS**

Mr. Colby reported that the monitoring well agreement for the former AMVETs property is almost complete. He reported that there was a technical meeting for the EMOU earlier in the week. He also reported on the Whitmore Proposition 1 expanded site investigation work and indicated that they were still working gaining access to a site on Telstar Ave. adjacent to WQA's Whitmore treatment facility. He noted that the Regional Board may consider meeting with the property owner. Next, he reported that the SEMOU Proposition 1 site investigation work continued with weekly meetings with Regional Board to coordinate site access activities for the 12 high priority sites.

## **ATTORNEY'S REPORT**

None.

## **LEGISLATIVE REPORT**

Mr. Monares reported that in Washington, DC the Senate voted on a corona virus relief bill which did not pass and indicated that it could lead to state and local government budget cuts in the future.

## **EXECUTIVE DIRECTOR'S REPORT**

Mr. Schoellerman reported the Prop 68 agreement was being reviewed by legal counsel. He noted that staff was looking to hire some accounting and technical help to administer these funds. He reported that staff has received some good feedback from WQA's webinar presentation to the city councils on October 1<sup>st</sup> and that staff was looking to hold another one in January. He reported that he along with staff and Mr. Marquez and Ms. Munoz met with Congresswoman Napolitano and her staff. He indicated that the Congresswoman was eager to assist the WQA and requested a tour once the stay at home order was lifted. He also noted that Ms. Munoz asked the Congresswoman to be a speaker at one of our future webinar updates to the cities. He reported that he had a meeting with Senator Archuleta. He noted that \$10M was still available in the USBR's the FY20 budget and that its status was unclear. He reported that the Senate appropriations bills were not expected to be made public until after the election. He indicated that our federal lobbyist would like to meet with the WQA staff and Board members and was considering having them attend a future Legislative/Public Information Committee meeting. He reported that all WQA staff would be attending sexual harassment prevention training as required. He reported that he received an update from Dr. Richard Schope (EcoVoices) on his water education program for students and noted that he was selected to present at the National Groundwater Association conference in December. His

presentation will be sponsored by WQA. He noted that the second round of assessment invoices have been sent out. He reported that staff received some good feedback from the budget discussion that took place at the Administrative/Finance Committee. He also reported that staff continues to work both in the office and remotely under the COVID-19 guidelines. He lastly reported that there would be a workshop at the next Board meeting for the Prop 1 SEMOU Site Investigation grant, which is one of the grant requirements.

**FUTURE AGENDA ITEMS**

None.

**FUTURE BOARD AND  
COMMITTEE MEETINGS**

The Admin/Finance Committee Meeting was scheduled for Tuesday, November 10, 2020 at 10:00 am.

The Engineering Committee Meeting scheduled for Tuesday, November 10, 2020 at 11am.

A Legislative/Public Information Committee was scheduled for Wednesday, November 11, 2020 at 11:00 am.

The next WQA Board meeting will be held on Wednesday, November 18, 2020 at 12pm.

**BOARD MEMBERS'  
COMMENTS/  
REPORTS**

None.

**ADJOURNMENT**

The Chairman asked if there were any other items of business to come before the Board. There being none, the meeting was adjourned to November 18, 2020.

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Jorge Marquez  
Chairman

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Valerie Munoz  
Secretary

# DRAFT

## SAN GABRIEL BASIN WATER QUALITY AUTHORITY ADMINISTRATIVE/FINANCE COMMITTEE AND SPECIAL MEETING OF THE BOARD OF DIRECTORS NOVEMBER 10, 2020 AT 10:00 A.M.

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*To the extent authorized by the Governor's Executive Order N-25-20 dated March 12, 2020 ("Executive Order") issued in response to the Covid-19 outbreak, the WQA Board Reserved the Right to Suspend Application of Certain Public Meeting Requirements Under the Brown Act during the term of the Executive Order, Including Restrictions and Noticing Requirements Relating to the Conduct of Teleconferenced Board Meetings.*

*Due to the essential nature of the WQA Board Meetings in conducting Authority business, the WQA Administrative/Finance Committee and Special meeting of the Board took place online and teleconference.*

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### CALL TO ORDER

Mr. Whitehead called the regular meeting of the San Gabriel Basin Water Quality Authority to order and reviewed the actions anticipated on the agenda for the meeting.

### COMMITTEE MEMBERS PRESENT

Mike Whitehead, Bob Kuhn and Mark Paulson,

### WATERMASTER LIASON

Dave Michalko

### COMMITTEE MEMBERS ABSENT

None.

### OTHER BOARD MEMBERS PRESENT

Lynda Noriega

### STAFF MEMBERS PRESENT

Randy Schoellerman, Executive Director; Stephanie Moreno, Executive Assistant/Public Outreach Coordinator; Mary Saenz, Director of Finance; Michelle Sanchez, Accounting Assistant; Dan Colby, Assistant Executive Director/Senior Project Manager

### MEMBERS OF THE PUBLIC PRESENT

Brian Bowcock, Three Valleys Municipal Water District; Ken Manning, WQA Consultant; Lenet Pacheco, Valley County Water District; Veva Weamer, Wildermuth Environmental (WEI)

### PUBLIC COMMENT

None.

### *Discussion Regarding Wildermuth Task Order for Database and Animation Updates*

Mr. Schoellerman reminded the committee that WEI created an integrated groundwater database for WQA and developed four groundwater animations that show the historical movement of the contaminant plume in the San Gabriel Basin. He noted this information has been helpful as a public relations tool to inform the public and elected officials about the impact the groundwater remediation efforts are having on the various contaminant plumes. He indicated that staff is recommending issuing a Task Order to WEI not to exceed \$50,064 to update



WQA's groundwater database and animations through June 2020.

Mr. Kuhn commented that this was a very useful tool when the WQA goes to Washington, D.C. to talk with legislators.

Mr. Whitehead commented that this was a very valuable tool for the WQA and all of the basin.

After some discussion, the committee recommended that the task order go to the full Board for approval.

***Discussion Regarding Wildermuth  
Task Order for 3D Transport  
Model Needs Assessment***

Mr. Schoellerman reported that staff is considering the development of a 3D groundwater flow-and-transport model that will allow for the projection of plume movements and for the generation of 3D visualization images and animations. The effort requires a significant cost estimated at \$700K - \$800K and staff plans to utilize future grants opportunities to implement the work. However, staff is recommending moving ahead with a needs assessment to refine and finalize the necessary scope of work that would provide the basis for a grant application. He noted that WEI has provided the attached proposal for \$39,936 to complete the needs assessment.

Mr. Kuhn recommended that this item go to the Board for approval.

After brief discussion, the committee recommended that this task order go to the full Board for approval.

***Discussion Regarding WQA  
Budgeted Projects***

Mr. Schoellerman briefly reviewed the budget and assessment reserve projections that were discussed in this committee the previous month. The projections indicated that WQA's assessment reserves could decline from \$1.9M to \$800K over the next 5 years under the current assessment of \$12/AF. Next, he presented a chart that illustrated the priority projects funded by the assessment over the same period. The expenditures represented the matching costs required for two of WQA's existing Proposition 1 planning grants plus two future Proposition 1 implementation grants that staff anticipates securing over the next couple of years. He concluded by noting that any federal funds received in the future could be used to offset the matching requirements.

Mr. Whitehead thanked Mr. Schoellerman for providing the information. He indicated that the water producers need to be informed of any possible assessment increase as early as possible and suggested that he continue to communicate with the SGV Water Association and Watermaster so they can understand that we are planning for the future.

Ms. Noriega asked if WQA would be likely to see any federal

funding come in with a new presidential administration.

Mr. Schoellerman responded that it is likely the change could be positive for WQA but that it was too soon to know for sure.

Mr. Paulson suggested that the WQA may want to consider establishing an assessment reserve policy to help guide future assessment discussions. Mr. Kuhn and Mr. Whitehead agreed with Mr. Paulson.

Mr. Schoellerman indicated that he would draft an assessment reserve policy for the committee to review.

## **EXECUTIVE DIRECTOR'S REPORT**

Mr. Schoellerman reported that staff continues to work with the Division of Financial Assistance on the Proposition 68 grant agreements. He indicated that staff experienced significant banking service interruptions over a four-week period due to a poorly executed software upgrade by Bank of the West. He thanked Ms. Saenz and Ms. Sanchez for their perseverance in handling the situation and noted that staff would be looking into alternative banking service providers. He lastly reported that staff was working to renew a monitoring well site access agreement with Los Angeles County Parks and Recreation. He noted that Mr. Monares was able to assist with this agreement by communicating with an L.A. County Supervisor's office.

## **ADJOURNMENT**

Mr. Whitehead asked if there were any other items of business to come before the Board. There being none, the meeting was adjourned.

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Jorge Marquez  
Chairman

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Bob Kuhn  
Vice-Chairman

# DRAFT

## SAN GABRIEL BASIN WATER QUALITY AUTHORITY LEGISLATIVE/PUBLIC INFORMATION COMMITTEE AND SPECIAL MEETING OF THE BOARD OF DIRECTORS NOVEMBER 10, 2020 AT 11:00 A.M.

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*To the extent authorized by the Governor's Executive Order N-25-20 dated March 12, 2020 ("Executive Order") issued in response to the Covid-19 outbreak, the WQA Board Reserved the Right to Suspend Application of Certain Public Meeting Requirements Under the Brown Act during the term of the Executive Order, Including Restrictions and Noticing Requirements Relating to the Conduct of Teleconferenced Board Meetings.*

*Due to the essential nature of the WQA Board Meetings in conducting Authority business, the WQA Legislative/Public Information Committee and Special meeting of the Board took place online and teleconference.*

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### **CALL TO ORDER**

The Chairman called the regular meeting of the San Gabriel Basin Water Quality Authority to order and reviewed the actions anticipated on the agenda for the meeting.

### **COMMITTEE MEMBERS PRESENT**

Jorge Marquez and Valerie Munoz

### **WATERMASTER LIASON**

Dan Arrighi

### **COMMITTEE MEMBERS ABSENT**

Bob Kuhn

### **OTHER BOARD MEMBERS PRESENT**

Lynda Noriega

### **STAFF MEMBERS PRESENT**

Randy Schoellerman, Executive Director; Stephanie Moreno, Executive Assistant/Public Outreach Coordinator; Dan Colby, Assistant Executive Director/Senior Project Manager; Mary Saenz, Director of Finance; Michelle Sanchez, Administrative/Accounting Assistant

### **MEMBERS OF THE PUBLIC PRESENT**

Chris Lancaster, Civic Publications; Brian Bowcock, Three Valleys Municipal Water District; Ken Manning, WQA Consultant; Gabriel Monares, The Monares Group; Lenet Pacheco, Valley County Water District; Jody Roberto, Three Valleys MWD

### ***Discussion Regarding Next Advertorial***

Ms. Moreno reported that she has discussed with Mr. Lancaster on producing an ad that would be in the Sustainability publication. She indicated that ad would focus on the sustainability of the basin and will also reference the comments that were brought up in a previous meeting regarding support for the Metropolitan Water District (MWD).

Mr. Lancaster reported that each agency would have their own individual ad, and there would also be an article within

the publication that would highlight how all the agencies in the basin work with MWD and the role they play in the basin.

### ***Legislative Activities/Reports***

#### **State**

Mr. Schoellerman gave a brief update regarding legislative seats changing in the San Gabriel Valley.

#### **Federal**

Mr. Schoellerman reported that staff is monitoring the changes in the administration and what possible impact it could have on our ability to receive funds. He also reported that staff continues to monitor and inquire about the \$10M in the U.S. Bureau of Reclamation's FY20 budget and that the Senate was expected to release their appropriations bills at any moment.

Mr. Monares reported that if the Democrats win the two Senate races in Georgia then they would have control of the Senate which could benefit the WQA with respect to the funding issues.

### **EXECUTIVE DIRECTOR'S REPORT**

Mr. Schoellerman reported that work continues on the Prop 68 grant agreement with the state and that he hopes to have an agreement in place by the beginning of 2021.

### **ADJOURNMENT**

The Chairman asked if there were any other items of business to come before the Board. There being none, the Board meeting was adjourned.

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Jorge Marquez  
Chairman

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Bob Kuhn  
Vice-Chairman

**DRAFT**

The following demands on the Administration Fund Account at Bank of the West are hereby submitted for payment.

Check No.	Payable to	Description	Amount
D01762	Bob Kuhn	Board Member Compensation for October 2020	
		4 Days WQA Business	597.72
		Meeting/Travel Expenses/Other	14.95
		Less Deferred Compensation	(551.99)
		Less Taxes Withheld	(45.73)
			14.95
D01763	Michael Whitehead	Board Member Compensation for October 2020	
		2 Days WQA Business	298.86
		Meeting/Travel Expenses/Other	0.00
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(22.86)
			276.00
D01764	Ed Chavez	Board Member Compensation for October 2020	
		6 Days WQA Business	896.58
		Meeting/Travel Expenses/Other	0.00
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(68.59)
			827.99
D01765	Jorge Marquez	Board Member Compensation for October 2020	
		6 Days WQA Business	896.58
		Meeting/Travel Expenses/Other	0.00
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(458.32)
			438.26
D01766	Valerie Munoz	Board Member Compensation for October 2020	
		4 Days WQA Business	597.72
		Meeting/Travel Expenses/Other	0.00
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(45.73)
			551.99
D01767	Mark Paulson	Board Member Compensation for October 2020	
		2 Days WQA Business	298.86
		Meeting/Travel Expenses/Other	0.00
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(22.86)
			276.00
D01768	Lynda Noriega	Board Member Compensation for October 2020	
		2 Days WQA Business	298.86
		Meeting/Travel Expenses/Other	0.00
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(22.86)
			276.00
EFT/ACH	SGBWQA - Payroll Fund	Replenish payroll fund for October 2020	
		Staff Payroll	63,886.84
		Board Deferred Compensation-Lincoln Life	551.99
		Board Payroll Taxes - Federal & State	984.17
			65,423.00
		<b>Total replenishment to payroll fund</b>	<b>68,084.19</b>
EFT/ACH	SGBWQA - Revolving Fund	Replenish revolving fund for 10/01/20 to 10/31/20 disbursements	
		Group Insurance	936.41
		Dues and Subscriptions	300.00
		Office Supplies	232.36
		Telephone Service	470.34
		Plant & Water Service	16.41
		Misc. Office Expense	60.00
		Postage Machine	180.61
		Security System	306.00
		Copier Machine	411.72
		Computer Systems O&M	450.97
		Copier Machine O&M	473.04
		Meetings and Conferences	106.02
		Project Costs	1,599.04
			5,542.92

*mbe*  
11-12-20

**DRAFT**

The following demands on the Administration Fund Account at Bank of the West are hereby submitted for payment.

Check No.	Payable to	Description	Amount
E90985	Kenneth Manning	Invoice No. 20-11Nov, Professional services November 2020	4,000.00
E90986	ACWA/JPIA	Invoice No. 656953, Medical and life insurance premiums for December 1, 2020 to January 1, 2021	8,449.96
E90987	Accent Computer Solutions, Inc.	Invoice No. 138834, Professional IT services for November	1,364.76
E90988	Bank of America	Invoice No. '20-10Oct-DC', Credit Card Expenses incurred for 10/01/20 to 10/31/20 Meetings & Conferences 75.00 Training 1,595.00	1,670.00
E90989	Bank of America	Invoice No. '20-10Oct-RS', Credit Card Expenses incurred for 10/01/20 to 10/31/209 Dues and Subscriptions 55.37 Computer Systems O&M 399.98 Internet Service 59.90 Meetings & Conferences 165.00	680.25
E90990	Civic Publications	Invoice No. 1613, Professional services for community outreach - WQA Annual Report 2019-2020	13,275.00
E90991	The Gualco Group	Invoice No '20-10Oct', Professional consulting services for October 2020	5,140.00
E90992	Kadesh & Associates, LLC	Invoice No. 11-20, Professional consulting services for October 2020	15,000.00
E90993	The Monares Group, LLC	Invoice No. '20-11Nov', Professional consulting services for November 2020	16,000.00
E90994	Ruffle Properties, LLC	Office lease, CAM, and Storage for December 2020 Invoice No. '20-12Dec', Office lease 6,845.79 Invoice No. '20-12Dec-CAM', Electricity charges 643.20 Invoice No. '20-12Dec-Storage', Storage Room 150.00	7,638.99
<b>TOTAL</b>			<b>146,846.07</b>



(updated January 2020)

## NAME:

**Bob Kuhn**

Oct-20

DATE	MEETING DESCRIPTION	Roundtrip Mileage	# of Days (not to exceed 6)	\$148.43 PER DIEM
10/5/20	Adam Shiff virtual meeting	0	1	\$148.43
10/14/20	Legislative committee	0	1	\$148.43
10/21/20	Board meeting	0	1	\$148.43
10/28/20	Sign Checks & SGEP Legislative Committee	26	1	\$148.43
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>Total Meetings</b>			<b>4</b>	<b>\$597.72</b>
<b>Total Mileage (at \$0.575 per mile)</b>		<b>26</b>		<b>\$14.95</b>

  

DATE	Expense Reimbursement Description (receipts required)	Amount
<b>TOTAL Expenses</b>		<b>\$0.00</b>
<b>TOTAL MEETINGS, MILEAGE, EXPENSES</b>		<b>\$612.67</b>
<b>Deferred Compensation Amount (enter a positive number)</b>		<b>597.72</b>
<b>TOTAL</b>		<b>\$14.95</b>

I hereby certify that I have incurred and paid all of the above expenses on behalf of the SAN GABRIEL BASIN WATER QUALITY AUTHORITY

**Please attach any fliers or back-up information regarding meetings listed above to be in compliance with AB 1234. If there are no attachments, a verbal report is required.**



**Water Quality Authority**

**Board Member Per Diem**

**\$149.43 per meeting, \$ meeting maximum per month**

**Mileage Rate: \$0.575 per mile**

(Updated January 2020)

**EXPENSE SHEET**

NAME:

Michael Whitehead

**MONTH/YEAR:**

Oct-20

DATE	MEETING DESCRIPTION	Rounding Mileage <small>(not included)</small>	# of Days	\$149.43 PER DIEM
10/13/20	Administrative and Finance Committee Meeting		1	\$149.43
10/21/20	WQA Board Meeting		1	\$149.43
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>Total Meetings</b>			<b>2</b>	<b>\$298.86</b>
<b>Total Mileage (at \$0.576 per mile)</b>		<b>0</b>		<b>\$0.00</b>

  

DATE	Expense Reimbursement Description (receipts required)	Amount
<b>TOTAL Expenses</b>		<b>\$0.00</b>

  

<b>TOTAL MEETINGS, MILEAGE, EXPENSES</b>			<b>\$298.86</b>
457	<b>Deferred Compensation Amount (enter a positive number)</b>		
<b>TOTAL</b>			<b>\$298.86</b>

I hereby certify that I have incurred and paid all of the above expenses on behalf of the  
**SAN GABRIEL BASIN WATER QUALITY AUTHORITY**

***Please attach any fliers or back-up information regarding meetings listed above to be in compliance with AB 1234. If there are no attachments, a verbal report is required.***





# Board Member Per Diem

\$149.43 per meeting, 6 meeting maximum per month

Mileage Rate: \$0.58 per mile

(updated January 2019)

## EXPENSE SHEET

NAME: Edward L. Chavez MONTH/YEAR: Oct-20

DATE	MEETING DESCRIPTION	Roundtrip Mileage	# of Days (not to exceed 6)	\$149.43 PER DIEM
10/5/20	City Council Meeting - City of Azusa		1	\$149.43
10/6/20	City Council Meeting - City of San Gabriel		1	\$149.43
10/7/20	Board Members' Meeting - San Gabriel Basin Watermaster		1	\$149.43
10/8/20	City Council Meeting - City of Industry		1	\$149.43
10/12/20	Operations, Personnel and Technology Committee - Metropolitan Water District of Southern California		1	\$149.43
10/21/20	Board Members' Meeting - San Gabriel Basin Water Quality Authority		1	\$149.43
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>Total Meetings</b>			<b>6</b>	<b>\$896.58</b>
<b>Total Mileage (at \$0.58 per mile)</b>		<b>0</b>		<b>\$0.00</b>

DATE	Expense Reimbursement Description (receipts required)	Amount
<b>TOTAL Expenses</b>		<b>\$0.00</b>

<b>TOTAL MEETINGS, MILEAGE, EXPENSES</b>		<b>\$896.58</b>
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457	Deferred Compensation Amount (enter a positive number)	
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<b>TOTAL</b>		<b>\$896.58</b>
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I hereby certify that I have incurred and paid all of the above expenses on behalf of the SAN GABRIEL BASIN WATER QUALITY AUTHORITY

Signature \_\_\_\_\_

**Please attach any fliers or back-up information regarding meetings listed above to be in compliance with AB 1234. If there are no attachments, a verbal report is required.**



Water Quality Authority

# Board Member Per Diem

\$149.43 per meeting, 6 meeting maximum per month

Mileage Rate: \$0.575 per mile

(updated January 2020)

## EXPENSE SHEET

NAME:

Jorge A Marquez

MONTH/YEAR:

Oct-20

DATE	MEETING DESCRIPTION	Roundtrip Mileage	# of Days (not to exceed 6)	\$149.43 PER DIEM
10/1/20	WQA - LOCAL ELECTED OFFICIALS MEETING UPDATE		1	\$149.43
10/7/20	WQA - BRIEFING WITH SENATOR ARCHULETA		1	\$149.43
10/12/20	SGV REGIONAL CHAMBER OF COMMERCE - GOVERNMENT COMMITTEE - MEMBER		1	\$149.43
10/14/20	WQA - LEGISLATIVE COMMITTEE		1	\$149.43
10/21/20	WQA - BOARDMEETING		1	\$149.43
10/28/20	WQA - ADMINISTRATIVE WORK - MEETING WITH STAFF		1	\$149.43
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>Total Meetings</b>			<b>6</b>	<b>\$896.58</b>
<b>Total Mileage (at \$0.575 per mile)</b>		<b>0</b>		<b>\$0.00</b>

  

DATE	Expense Reimbursement Description (receipts required)	Amount
<b>TOTAL Expenses</b>		<b>\$0.00</b>

  

<b>TOTAL MEETINGS, MILEAGE, EXPENSES</b>		<b>\$896.58</b>
457	Deferred Compensation Amount (enter a positive number)	
<b>TOTAL</b>		<b>\$896.58</b>

I hereby certify that I have incurred and paid all of the above expenses on behalf of the  
SAN GABRIEL BASIN WATER QUALITY AUTHORITY

**Please attach any fliers or back-up information regarding meetings listed above to be in compliance with AB 1234. If there are no attachments, a verbal report is required.**



Water Quality Authority

# Board Member Per Diem

\$149.43 per meeting, 6 meeting maximum per month

Mileage Rate: \$0.575 per mile (updated January 2020)

## EXPENSE SHEET

NAME:

Valerie Munoz

MONTH/YEAR:

Oct-20

DATE	MEETING DESCRIPTION	Roundtrip Mileage	# of Days (not to exceed 6)	\$149.43 PER DIEM
10/1/20	Legislative Update with Cities	0	1	\$149.43
10/14/20	Legislative and Pub Meeting	0	1	\$149.43
10/15/20	Power Lunch Supply Chain with San Gabriel Economic Partnership		1	\$149.43
10/20/20	California Streaming Series: Time for Transformative Water Leadership	0	1	\$149.43
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>Total Meetings</b>			<b>4</b>	<b>\$597.72</b>
<b>Total Mileage (at \$0.575 per mile)</b>		<b>0</b>		<b>\$0.00</b>

  

DATE	Expense Reimbursement Description (receipts required)	Amount
<b>TOTAL Expenses</b>		<b>\$0.00</b>

  

<b>TOTAL MEETINGS, MILEAGE, EXPENSES</b>		<b>\$597.72</b>
457	Deferred Compensation Amount (enter a positive number)	
<b>TOTAL</b>		<b>\$597.72</b>

I hereby certify that I have incurred and paid all of the above expenses on behalf of the SAN GABRIEL BASIN WATER QUALITY AUTHORITY

Signature \_\_\_\_\_

**Please attach any fliers or back-up information regarding meetings listed above to be in compliance with AB 1234. If there are no attachments, a verbal report is required.**



Mileage Rate: \$0.575 per mile (updated January 2020)

MONTH/YEAR: Oct-20

DATE	MEETING DESCRIPTION	Roundtrip Mileage	# of Days (not to exceed 8)	\$149.43 PER DIEM
10/13/20	WQA Administrative and Finance Committee Meeting		1	\$149.43
10/21/20	WQA Board of Directors Meeting		1	\$149.43
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
Total Meetings			2	\$298.86
Total Mileage (at \$0.575 per mile)		0		\$0.00

  

DATE	Expense Reimbursement Description (receipts required)	Amount
TOTAL Expenses		\$0.00

  

TOTAL MEETINGS, MILEAGE, EXPENSES		\$298.86
457	Deferred Compensation Amount (enter a positive number)	
TOTAL		\$298.86

I hereby certify that I have incurred and paid all of the above expenses on behalf of the  
**SAN GABRIEL BASIN WATER QUALITY AUTHORITY**

-DocuSigned by:

***Please attach any fliers or back-up information regarding meetings listed above to be in compliance with AB 1234. If there are no attachments, a verbal report is required.***

**DRAFT**

The following demands on the Project Fund Account and Trustee Account at Bank of the West are hereby submitted for payment.

Check No.	Payable to	Description	Amount	Funding Sources
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**BALDWIN PARK OPERABLE UNIT**

E90995	RC Foster Corporation	Invoice No. 02-20-050, Project costs for Spare parts costs for November 2020	740.22	CR's
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**SOUTH EL MONTE OPERABLE UNIT**

E90996	Avocet Environmental Inc.	Project costs for Whitmore Street Groundwater Remediation Facility for October 2020		
		Invoice No. 6317 - Round 1 Prop 1-Whitmore Hydropunch	2,657.50	
		Invoice No. 6318 - Prop 1 SGV Priority Sites	48,211.72	
		Invoice No. 6319 - Whitmore GW Treatment System	<u>8,013.73</u>	58,882.95 WQA/Prop 1
E90997	Golden State Water Company	Invoice No. 13691-ACD, Project T&R costs for SG1 & 2 VOC for April to June 2020	6,286.41	EPA
E90998	San Gabriel Valley Water Co.	Project T&R Costs for Plant 8 LGAC and Air Stripper for April to June 2020		
		Invoice No. 20-08200, Plant 8 A.S. for April	13,477.76	
		Invoice No. 20-08201, Plant 8 A.S. for May	18,796.74	
		Invoice No. 20-08202, Plant 8 A.S. for June	18,037.11	
		Invoice No. 20-08203, Plant 8 LGAC for April	10,649.27	
		Invoice No. 20-08204, Plant 8 LGAC for May	10,434.32	
		Invoice No. 20-08205, Plant 8 LGAC for June	<u>10,919.35</u>	82,314.55 EPA

**Total Project Costs 148,224.13**

**SOUTH EL MONTE OPERABLE UNIT - TRUSTEE**

E90999	Golden State Water Company	Invoice No. 13691-B, Project T&R costs for SG1 & 2 for April to June 2020	950.00	RP's
E91000	San Gabriel Valley Water Co.	Project T&R Costs for Plant G4 LGAC for April to June 2020		
		Invoice No. 20-08206, Plant G4 LGAC - April	8,380.38	
		Invoice No. 20-08207, Plant G4 LGAC - May	8,766.31	
		Invoice No. 20-08208, Plant G4 LGAC - June	<u>8,087.93</u>	25,234.62 RP's

**Total Trustee Costs 26,184.62**

**Total Project and Trustee Costs 174,408.75**

*Mh*  
11-12-20

**DRAFT**

The following demands on the Project Fund Account at Bank of the West are hereby submitted for payment. Pursuant to the BPOU Project Agreement Section 4.7 Payment of Invoices, the following invoices were approved by the BPOU Project Committee on October 29, 2020.

Check No.	Payable to	Description	Amount	Funding Sources
<b><u>BALDWIN PARK OPERABLE UNIT</u></b>				
E91001	La Puente Valley County WD	Invoice No. 4-2020-09, Project T&R costs for September 2020	169,652.08	CR's
E91002	Main San Gabriel Basin Watermaster	Invoice No. 02-224, Administrative Project Costs for September 2020		
		Administrative costs	38,469.73	
		T&R costs	<u>15,004.13</u>	CR's
E91003	Suburban Water Systems	Invoice No. 59880920, for project T&R costs for September 2020	41,354.13	CR's
E91004	Valley County Water District	Project costs for September 2020		
		Invoice No. 425, T&R costs	310,519.45	
		Invoice No. 426, T&R costs	<u>78,395.94</u>	CR's
E91005	California Domestic Water Co.	Project costs for September 2020		
		Invoice No. 3414, T&R costs for Perchlorate	21,429.89	
		Invoice No. 3415, T&R costs for NDMA & VOC's	118,159.60	
		Invoice No. 3416, T&R costs for Replacement Water Supply	<u>36,117.52</u>	CR's
E91006	San Gabriel Valley Water Co.	Project costs for August 2020		
		Invoice No. 20-09238, B5 T&R costs	177,478.40	
		Invoice No. 20-09237 B6 T&R costs	291,020.86	
		Invoice No. 20-09239, B6 Capital costs-UV Flex Treatment Plant	<u>475,141.56</u>	CR's
<b>Total BPOU Project Costs</b>			<b><u>1,772,743.29</u></b>	

mb  
11-12-20



# San Gabriel Basin Water Quality Authority

1720 W. Cameron Avenue, Suite 100, West Covina, CA 91790 • 626-338-5555 • Fax 626-338-5775

## AGENDA SUBMITTAL

**To:** WQA Board of Directors  
**From:** Randy Schoellerman  
**Date:** November 18, 2020  
**Subject:** Database and Animation Update Task Order for Wildermuth Environmental, Inc.

---

### **Summary**

Staff is requesting authorization to issue a Task Order to Wildermuth Environmental, Inc. (WEI) to update WQA's integrated groundwater database and animations for the San Gabriel Valley.

### **Discussion**

WEI created an integrated groundwater database for WQA and developed four groundwater animations that show the historical movement of the contaminant plume in the San Gabriel Basin. This information has been helpful as a public relations tool to inform the public and elected officials about the impact the groundwater remediation efforts are having on the various contaminant plumes.

Staff is recommending issuing a Task Order to WEI not to exceed \$50,064 to update WQA's groundwater database and animations through June 2020.

The Admin/Finance Committee reviewed this item on November 10, 2020 and recommended approval.

### **Recommendation / Proposed Actions**

Authorize staff to issue a Task Order to WEI not to exceed \$50,064 to update WQA's groundwater database and animations.

### **Attachment:**

*WEI Proposal to update database and animations*





April 7, 2020

San Gabriel Basin Water Quality Authority  
Attn: Ken Manning, Executive Director  
1720 W. Cameron Ave # 100  
West Covina, CA 91790

***Subject: 2020 Update of the Groundwater Database for the San Gabriel Basin and Animations of Contaminant Plumes***

Wildermuth Environmental, Inc. (WEI) has prepared this proposal for the San Gabriel Basin Water Quality Authority (WQA) to: (i) update its groundwater database for the San Gabriel Basin through June 2020 using HydroDaVE Managed Services (HDMS), and (ii) update four animations of the various Operable Unit (OU) contaminant plumes over the period 1990 to 2020.

**Background**

Pursuant to an April 5, 2018 Task Order, WEI migrated the US Environmental Protection Agency (EPA) groundwater database for the San Gabriel Basin prepared by EA Engineers (EPA database) into HDMS. In a subsequent October 31, 2018 Task Order, WEI updated HDMS with the latest EPA database, and used the data to prepare the following four water-quality animations:

- Animation of total trichloroethene and tetrachloroethene (TCE+PCE) concentrations for the Baldwin Park Operable Unit (BPOU) plume from 1990 to 2018.
- Animation of perchlorate concentrations for the BPOU plume from 1990 to 2018.
- Animation of the total contaminants of concern (total COC) for the BPOU plume, as represented by total TCE+PCE+perchlorate concentrations, from 1990 to 2018.
- Animation of total COC for all OUs in the San Gabriel Basin, as represented by total TCE+PCE+perchlorate concentrations, from 2000 to 2018.

In February 2020, the WQA requested that WEI consider the following three tasks for continued characterization of water-quality conditions in the San Gabriel Basin: 1) update the groundwater database and water-quality animations of the contaminant plumes in the San Gabriel Basin 2) project the movement of the OU plumes in the future; and 3) prepare three-dimensional visualizations of the OU plumes in their current state. This proposal is for the first task. A separate proposal will be prepared for the second and third tasks.

## Scope of Work

Table 1 is a line-item cost estimate to update the WQA groundwater database for the San Gabriel Basin and use the database to update four animations of the contaminant plumes in the basin through 2020. The scope of work includes the following major tasks:

**Task 1:** Migrate the latest EPA database (updated through June 2020) into HDMS.

**Task 2:** Update three animations of the TCE+PCE, perchlorate, and total COC plumes for the BPOU through 2020.

**Task 3:** Update animation of total COC plumes for all OUs in the San Gabriel Basin.

**Task 4:** Project Management.

### **Task 1 - Migrate the Latest EPA Database (updated through June 2020) into HDMS**

The last EPA database collected from EA Engineering and uploaded to HDMS included data through about June 2018. The objective of this task is to collect the latest EPA database from EA Engineering and upload the groundwater-quality and groundwater-level data to HDMS. EA Engineering is continually updating the EPA database with data as it becomes available from various data sources. By the beginning of November 2020, the EPA database is expected to be complete with all data in the San Gabriel Basin through June 2020. All available groundwater-quality and groundwater-level data for the period of July 2018 through June 2020 will be processed, uploaded to HDMS, and reviewed for QA/QC.

### **Task 2 – Update Three Animations of the TCE+PCE, Perchlorate, and Total COC plumes for the BPOU through 2020**

This task includes updating the three different groundwater-quality animations previously prepared for the BPOU for the period of 1990 through 2018, showing the constituent concentrations and spatial distribution of the contaminant plume for: 1) TCE+PCE, 2) perchlorate, and 3) total COC.

To update each of the three BPOU animations, the concentration data for the contaminants at each well, for the 2.5-year period of January 2018 through June 2020, will be extracted from HDMS and compiled. A well-point shapefile will be prepared of the maximum concentration value for each contaminant over the 2.5-year period. For animations showing more than one contaminant (i.e. PCE+TCE and total COC) the sum of the normalized concentration values for each contaminant (measured concentration divided by the primary maximum contaminant level for drinking water) will be calculated. The point shapefile will be used to create a raster using ordinary kriging interpolation model in Golden Software's Surfer. The raster will be clipped based on the interpreted non-detect concentration boundary from the kriging results. An image of the rasterized plumes with the point-concentration data will be provided to WQA for review. Following this review, the rasters will be used to extend the animation of the plume concentrations from 2018 through 2020 using a linear interpolation method. Secondary information of total volume of water treated and total mass of contaminants removed for all

OUs, and groundwater elevation at the Baldwin Park Key Well will be updated through 2020. A draft animation will be provided to the WQA for review. WQA comments on the draft animation will be addressed and a final animation will be prepared and delivered to the WQA.

The preparation of each of the three animations for the BPOU includes the following subtasks:

- 2.1 - Extract concentration data from HDMS for the period January 2018 to June 2020 and prepare point shapefile of maximum concentration data
- 2.2 - Prepare raster from point shapefile and clip on non-detect boundaries
- 2.3 - Prepare image of draft raster with the data points and send to WQA Staff for review, and edit if necessary
- 2.4 - Update animation of the plume through 2020 based on the raster prepared in subtask 2.3
- 2.5 - Compile and format updated secondary data/information for the animation
- 2.6 - Prepare draft animation and send to WQA for review and comment
- 2.7 - Incorporate WQA comments, edit as necessary, and prepare final animation

### **Task 3 – Update the Animation of Total COC Plumes for all OUs in the San Gabriel Basin through 2020**

This task includes updating the one groundwater-quality animation previously prepared for the entire San Gabriel Basin for the period of 2000 to 2018 for the total COC contaminant plumes for all OUs.

To update the basin-wide animation, an updated raster of the total COC plume for the five other OUs in the San Gabriel Basin will be prepared. The same methods and steps described above to prepare the BPOU plume animations will be used to prepare the basin-wide animation.

The preparation of the animation includes the following subtasks:

- 3.1 - Extract concentration data from HDMS for the period January 2018 to June 2020 and prepare point shapefile of maximum concentration data
- 3.2 - Prepare raster from point shapefile and clip on non-detect boundaries
- 3.3 - Prepare image of draft raster with the data points and send to WQA Staff for review, and edit if necessary
- 3.4 - Update animation of the plumes through 2020 based on the raster prepared in subtask 3.3
- 3.5 - Compile and format updated secondary data/information for the animation
- 3.6 - Prepare draft animation and send to WQA for review and comment
- 3.7 - Incorporate WQA comments, edit as necessary, and prepare final animation

**Task 4 – Project Management**

The objective of this task is to manage project staffing, schedule, and budget and coordinate with the WQA staff on project status. The project management task assumes a project duration of five months (November 2020 through March 2021).

**Fee Estimate and Schedule**

The proposed fee estimate is shown in Table 1 as a line-item work-breakdown structure with cost estimates. The fee estimate was developed using WEI's 2020 rate schedule shown in Table 2. The total fee to execute the project \$50,064.

Task 1 can start in November 2020 once EA Engineers has provided an updated EPA database through June 2020. Once Task 1 is completed, Task 2 and Task 3 will commence with the goal of completing all final animations within five months of project commencement.

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We appreciate the opportunity to assist the WQA on this important manner. Please contact us at 949.600.7520 if you have any questions or concerns.

Very truly yours,

**Wildermuth Environmental, Inc.**

Veva Weamer  
Supervising Scientist



Eric Chiang, PhD  
Principal Engineer

Encl: Table 1: Line-Item Work Breakdown Structure and Cost Estimate  
Table 2: WEI Time and Material Rate Sheet for 2020

**Table 1**  
**Line-Item Work Breakdown Structure and Cost Estimates**  
**2020 Update of the Groundwater Database for the San Gabriel Basin and Animations of Contaminant Plumes**

Description	Labor (person days)						Other Direct Charges		Total Project Costs	
	Principal III	Principal I	Supervising I	Staff I	Task Rep Multiplier	Total Labor	Travel	Annual License	Total ODCs	
									Subtask	Task
<b>Task 1 - Migrate the Latest EPA Database (updated through June 2020) into HDMS</b>						\$10,828			\$0	\$10,828
1.1 Collect, review, and query the EPA San Gabriel Database compiled by EA Engineering		0.5	1		1	1.50				\$2,964
1.2 Process, upload, and perform QA/QC of groundwater-quality data through June 2020			0.75	2.75	1	3.50				\$4,976
1.3 Process, upload, and perform QA/QC of groundwater-level data through June 2020			0.5	1.50	1	2.00				\$2,888
<b>Task 2 - Update Three Animations of the TCE+PCE, Perchlorate, and Total COC plumes for the BPOU through 2020</b>						\$19,648			\$0	\$19,648
2.1 Extract concentration data from HDMS for the period January 2018 to June 2020 and prepare point shapefile of maximum concentration data			0.10	0.25	3	1.05				\$1,540
2.2 Prepare raster from point shapefile and clip on non-detect boundaries			0.20	0.70	3	2.70				\$3,852
2.3 Prepare image of draft raster with the data points and send to WQA Staff for review, and edit if necessary			0.10	0.25	3	1.05				\$1,540
2.4 Update animation of the plume through 2020 based on the raster prepared in subtask 2.3		0.75	0.10	0.20	3	3.15				\$6,080
2.5 Compile and format updated secondary data/information for the animation			0.50		1	0.50				\$956
2.6 Prepare draft animation and send to WQA for review and comment	0.10	0.25	0.10		3	1.35				\$2,862
2.7 Incorporate WQA comments, edit as necessary, and prepare final animation	0.10	1.00	0.25		1	1.35				\$2,819
<b>Task 3 - Update the Animation of Total COC Plumes for all OUs in the San Gabriel Basin through 2020</b>						\$17,676			\$0	\$17,676
3.1 Extract concentration data from HDMS for the period January 2018 to June 2020 and prepare point shapefile of maximum concentration data			0.10	0.25	5	1.75				\$2,566
3.2 Prepare raster from point shapefile and clip on non-detect boundaries			0.20	0.70	5	4.50				\$6,420
3.3 Prepare image of draft raster with the data points and send to WQA Staff for review, and edit if necessary			0.10	0.25	5	1.75				\$2,566
3.4 Update animation of the plumes through 2020 based on the raster prepared in subtask 3.3		1.00	0.10	0.30	1	1.40				\$2,682
3.5 Compile and format updated secondary data/information for the animation			0.25		1	0.25				\$478
3.6 Prepare draft animation and send to WQA for review and comment		0.25	0.20		1	0.45				\$908
1C.7 Incorporate WQA comments, edit as necessary, and prepare final animation		0.75	0.25		1	1.00				\$2,056
<b>Task 4: Project Management</b>						\$1,912			\$0	\$1,912
4.1 Project Management			0.20		5.00	1.00				\$1,912
<b>Total Project</b>	<b>0.4</b>	<b>6.5</b>	<b>8.6</b>	<b>14.75</b>		<b>30.25</b>			<b>\$0</b>	<b>\$50,064</b>

**Table 2**  
**WEI Time and Material Rate Sheet for 2020**

Staff Type	Hourly Rate
Principal Engineer III/Scientist III	\$296
Principal Engineer II/Scientist II	\$278
Principal Engineer I /Scientist I	\$263
Supervising Engineer/Scientist II	\$245
Supervising Engineer/Scientist I	\$239
Senior Engineer II/Scientist II	\$214
Senior Engineer I/Scientist I	\$201
Staff Engineer/Scientist II	\$174
Staff Engineer/Scientist I	\$161
Database Manager	\$239
Technical Editor	\$137
Field Technician	\$87
Admin Assistant	\$137
Expert Witness <sup>1</sup>	\$593

<sup>1</sup> Preparation of testimonial material is billed at the normal hourly rate. Witness preparation, depositions, and testimony are billed at the expert witness rate - with a minimum charge of one day.

a Mileage for passenger vehicles will be billed at the IRS rate.

Subject to annual adjustments.

b Other project-related travel costs will be passed through.



# San Gabriel Basin Water Quality Authority

1720 W. Cameron Avenue, Suite 100, West Covina, CA 91790 • 626-338-5555 • Fax 626-338-5775

## **DRAFT - AGENDA SUBMITTAL**

**To:** WQA Board of Directors  
**From:** Randy Schoellerman  
**Date:** November 18, 2020  
**Subject:** Needs Assessment Task Order for Wildermuth Environmental, Inc.

---

### **Summary**

Staff is requesting authorization to issue a Task Order to Wildermuth Environmental, Inc. (WEI) to conduct a needs assessment as a preliminary step to creating a 3D groundwater flow-and-transport model of the basin.

### **Discussion**

Staff is considering the development of a 3D groundwater flow-and-transport model that will allow for the projection of plume movements and for the generation of 3D visualization images and animations. The effort requires a significant cost estimated at \$700K - \$800K and staff plans to utilize future grants opportunities to implement the work. However, staff is recommending moving ahead with a needs assessment to refine and finalize the necessary scope of work that would provide the basis for a grant application. WEI has provided the attached proposal for \$39,936 to complete the needs assessment.

The Admin/Finance Committee reviewed this item on November 10, 2020 and recommended approval of the needs assessment work.

### **Recommendation / Proposed Actions**

Authorize staff to issue a Task Order to WEI not to exceed \$39,936 to conduct a needs assessment for a 3D groundwater flow-and-transport model of the basin.

### **Attachment:**

*WEI Proposal for Needs Assessment*



April 14, 2020

## **Memorandum**

**TO:** San Gabriel Basin Water Quality Authority

**FROM:** Wildermuth Environmental Inc.

**RE:** Outline of proposed scope of work, and cost estimate range, for projection of movement of the Operable Unit Plumes in the future and preparing three-dimensional visualizations of the OU plumes, and recommended next steps.

## **Background and Purpose**

The San Gabriel Basin Water Quality Authority (WQA) has asked Wildermuth Environmental, Inc. (WEI) to consider the necessary work to: (1) project the movement of the Operable Unit (OU) plumes in the future; and (2) prepare three-dimensional (3D) visualizations and animation of the OU plumes. The general scope of work described below is WEI's recommendation for the best approach to accomplish the two tasks.

## **Scope of Work**

The recommended approach is to develop a 3D groundwater flow-and-transport model that will allow for the projection of plume movement and for the generation of 3D visualization images and animations. The proposed scope of work would include the following major tasks:

- Data Collection and Preparation of Hydrologic Database and Library of Reports
- Describe Model Area and Prepare Basin Setting (conceptual model of the San Gabriel Basin)
- Construct and Calibrate a Numerical Flow Model
- Construct a Numerical Solute-Transport Model and Prepare Water Quality Simulations
- Stakeholder Engagement [optional]
- Project Administration and Management

The scope includes an optional task for stakeholder engagement to educate all interested stakeholders in the San Gabriel Basin on the robust process to develop the groundwater flow and transport model, and validate the efficacy of the model as a tool to project movement of the OU plumes and generate 3D visualizations of the plumes.





Three technical memorandums (TMs) will be prepared as part of the model development process to document the work. These TMs include:

- TM 1 - Hydrogeologic Conceptual Model
- TM 2 - Construction and Calibration of the Groundwater Flow-and-Transport Model for San Gabriel Basin
- TM 3 - Model Simulation Results

### Fee Estimate and Schedule

WEI's initial estimate of the cost to perform this proposed scope of work ranges from \$700,000 to \$800,000—the range primarily dependent the availability of data and the utility of past modeling work. The cost will increase if significant stakeholder engagement is desired by the WQA. The work is assumed to be completed over a two -year period.

For fiscal year 2020/21, WEI recommends that the WQA consider a fee of \$39,936 to: 1) complete a needs assessment to refine, finalize, and document the necessary scope of work; and 2) perform the first implementation tasks of the scope of work, which is data collection and preparation of a hydrologic database and library of reports. Table 1 is a line-item scope of work and cost estimate to perform these steps and includes: Task 1 - Prepare Needs Assessment for the Development and Implementation of the Model, and Task 2 - Collect Data and Prepare Hydrologic Database and Library of Reports. Task 1 can start immediately upon notice to proceed and can be completed within two months. Task 2 can start after Task 1 is completed upon notice to proceed and can be completed within three months.

**Table 1**  
**Line-Item Work Breakdown Structure and Cost Estimates**  
*Prepare Needs Assessment and Perform Initial Steps to Develop and Implement  
a 3D Groundwater Flow-and-Transport Model of the San Gabriel Basin*

Description	Labor (person days)							Other Direct Charges		Total Project Costs	
	Principal III	Principal II	Principal I	Supervising I	Staff I	Task Rep Multiplier	Total Labor	Travel	Annual License	Total ODCs	
										Subtask	Task
<b>Task 1 - Prepare Needs Assessment for the Development and Implementation of the Model</b>							<b>\$21,960</b>			<b>\$0</b>	<b>\$21,960</b>
1.1 Define the needs and objectives of the Model	0.15		0.25	0.65		1	1.05 \$2,116				\$2,116
1.2 Research existing work that can be used to support the development of the Model	0.2		1	1	0.30	1	2.50 \$4,876				\$4,876
1.3 Prepare a line-item scope and cost estimate to develop the Model and perform water-quality simulations	0.5		2	1.6		1	4.10 \$8,451				\$8,451
1.4 Prepare a technical memorandum to document the Needs Assessment	0.3		1	1.6	0.50	1	3.40 \$6,518				\$6,518
<b>Task 2 - Collect Data and Prepare Hydrologic Database and Library of Reports <sup>1</sup></b>							<b>\$17,975</b>			<b>\$0</b>	<b>\$17,975</b>
2.1 Collect and review historical reports on the San Gabriel Basin			1.00	1.00	0.60	1	2.60 \$4,789				\$4,789
2.2 Collect, compile, and review GIS shapefiles (topography, soil type, land use, hydrology, water use, water disposal, etc.)		0.20		0.50	1.30	1	2.00 \$3,075				\$3,075
2.3 Collect, compile, review and upload well borehole lithology		0.60		1.20	2.60	1	4.40 \$6,978				\$6,978
2.4 Prepare project GIS and map template		0.40		0.50	1.00	1	1.90 \$3,134				\$3,134
<b>Total Project</b>	<b>1.15</b>		<b>5.25</b>	<b>8.0456</b>	<b>6.3</b>		<b>21.95</b>			<b>\$0</b>	<b>\$39,936</b>

**Notes:**

1-These are the first steps towards the preparation of the hydrogeologic conceptual model of the San Gabriel Basin

## Calendars

- [SGVMWD](#)
- [TVMWD](#)
- [USGVMWD](#)
- [WM](#)
- [WQA](#)

Nov 12, 2020 - Feb 11, 2021

### November 2020

Thu Nov 12	10:00am - 11:00am	<a href="#">60th Anniversary</a>
Tue Nov 17	4:00pm - 5:00pm	<a href="#">USGVMWD Water Resources &amp; Facility Management Committee</a>
Wed Nov 18	8:00am - 10:30am	<a href="#">TVMWD Board Meeting</a>
	9:00am - 10:00am	<a href="#">USGVMWD Board Meeting</a>
	12:00pm - 1:00pm	<a href="#">WQA Board Meeting</a>
	1:30pm - 2:30pm	<a href="#">WM Administrative Committee Mtg</a>
Thu Nov 19	4:00pm - 5:00pm	<a href="#">USGVMWD Admin &amp; Finance Committee meeting</a>
Wed Nov 25	9:00am - 10:00am	<a href="#">CANCELED - USGVMWD Board Meeting</a>
Thu Nov 26	All day	<a href="#">Thanksgiving</a>

### December 2020

Wed Dec 2	8:00am - 10:30am	<a href="#">TVMWD Board Meeting</a>
	2:30pm - 3:30pm	<a href="#">Watermaster Board Meeting</a>
Tue Dec 8	10:00am - 11:00am	<a href="#">WQA Admin/Finance Committee</a>
	11:00am - 12:00pm	<a href="#">WQA Engineering Committee</a>
	4:00pm - 5:00pm	<a href="#">USGVMWD Gov Affairs Committee Meeting</a>
Wed Dec 9	9:00am - 10:00am	<a href="#">USGVMWD Board Meeting</a>
	11:00am - 12:00pm	<a href="#">WQA Leg/Pub Committee</a>
	1:30pm - 3:00pm	<a href="#">WM Basin Watermaster Committee Mtg</a>
Mon Dec 14	8:00am - 9:30am	<a href="#">SGVMWD Board Meeting</a>
Tue Dec 15	4:00pm - 5:00pm	<a href="#">USGVMWD Water Resources &amp; Facility Management Committee</a>
Wed Dec 16	8:00am - 10:30am	<a href="#">TVMWD Board Meeting</a>
	12:00pm - 1:00pm	<a href="#">WQA Board Meeting</a>
	1:30pm - 2:30pm	<a href="#">WM Administrative Committee Mtg</a>

Thu Dec 17	4:00pm - 5:00pm	<a href="#">USGVMWD Admin &amp; Finance Committee meeting</a>
Wed Dec 23	9:00am - 10:00am	<a href="#">CANCELED - USGVMWD Board Meeting</a>
<b>January 2021</b>		
Tue Jan 5	4:00pm - 5:00pm	<a href="#">USGVMWD Gov Affairs Committee Meeting</a>
Wed Jan 6	8:00am - 10:30am	<a href="#">TVMWD Board Meeting</a>
	2:30pm - 3:30pm	<a href="#">Watermaster Board Meeting</a>
Tue Jan 12	10:00am - 11:00am	<a href="#">WQA Admin/Finance Committee</a>
	11:00am - 12:00pm	<a href="#">WQA Engineering Committee</a>
Wed Jan 13	9:00am - 10:00am	<a href="#">USGVMWD Board Meeting</a>
	11:00am - 12:00pm	<a href="#">WQA Leg/Pub Committee</a>
	1:30pm - 3:00pm	<a href="#">WM Basin Watermaster Committee Mtg</a>
Wed Jan 20	8:00am - 10:30am	<a href="#">TVMWD Board Meeting</a>
	12:00pm - 1:00pm	<a href="#">WQA Board Meeting</a>
	1:30pm - 2:30pm	<a href="#">WM Administrative Committee Mtg</a>
Tue Jan 26	4:00pm - 5:00pm	<a href="#">USGVMWD Water Resources &amp; Facility Management Committee</a>
Wed Jan 27	9:00am - 10:00am	<a href="#">USGVMWD Board Meeting</a>
Thu Jan 28	4:00pm - 5:00pm	<a href="#">USGVMWD Admin &amp; Finance Committee meeting</a>
<b>February 2021</b>		
Tue Feb 2	4:00pm - 5:00pm	<a href="#">USGVMWD Gov Affairs Committee Meeting</a>
Wed Feb 3	8:00am - 10:30am	<a href="#">TVMWD Board Meeting</a>
	2:30pm - 3:30pm	<a href="#">Watermaster Board Meeting</a>
Tue Feb 9	10:00am - 11:00am	<a href="#">WQA Admin/Finance Committee</a>
	11:00am - 12:00pm	<a href="#">WQA Engineering Committee</a>
Wed Feb 10	9:00am - 10:00am	<a href="#">USGVMWD Board Meeting</a>
	11:00am - 12:00pm	<a href="#">WQA Leg/Pub Committee</a>
	1:30pm - 3:00pm	<a href="#">WM Basin Watermaster Committee Mtg</a>

