

**A REGULAR MEETING  
OF THE  
SAN GABRIEL BASIN WATER QUALITY AUTHORITY  
AT  
1720 W. CAMERON AVENUE, SUITE 100  
WEST COVINA, CALIFORNIA  
WEDNESDAY, SEPTEMBER 18, 2019 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  | _____ | _____ | (alt) |
| Bob Kuhn       | _____ | _____ | (alt) |
| Tim Miller     | _____ | _____ | (alt) |
| Valerie Munoz  | _____ | _____ | (alt) |
| Mike Whitehead | _____ | _____ | (alt) |
| Mark Paulson   | _____ | _____ | (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. 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)
- VI. PRESENTATION** **MANNING**

***“Presentation on Animation of Groundwater Plume in the San Gabriel Basin”***



## **VII. CONSENT CALENDAR**

**MARQUEZ**

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

- (a) Minutes for 8/21/19 Regular Board Meeting
- (b) Minutes for 9/10/19 Administrative/Finance Committee – Special Joint Meeting
- (c) Minutes for 9/11/19 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
  - 1. Discussion/Action Regarding Draft 404 Status Report for September 2019 [enc]
  - 2. Discussion/Action Regarding Monitoring Well MW5-19 Access Agreement with County of Los Angeles Department of Parks and Recreation [enc]
- (b) Legislative/Public Information Committee Report

## **IX. ACTION/INFORMATION ITEMS**

**MARQUEZ**

(These items may require action)

- (a) None.

## **X. ENGINEER'S REPORT**

**SCHOELLERMAN**

- (a) Project Updates:

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 Treatment Facility	Operational
	• 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
  - City of South Pasadena Wilson Treatment Operational

- XI. ATTORNEY'S REPORT** **PADILLA**
- XII. EXECUTIVE DIRECTOR'S REPORT** **MANNING**
- XIII. FUTURE AGENDA ITEMS** **MARQUEZ**
- XIV. INFORMATION ITEMS [enc]** **MARQUEZ**
- (a) San Gabriel Basin Water Calendar
- XV. FUTURE BOARD/COMMITTEE MEETINGS** **MARQUEZ**
- (a) The next Administrative/Finance Committee meeting will be held on Tuesday, October 8, 2019 at 10:00 P.M. at WQA
- (b) The next Engineering Committee meeting will be held on Tuesday, October 8, 2019 at 11:00 A.M. at WQA
- (c) The next Legislative/Public Information Committee meeting will be held on Wednesday, October 9, 2019 at 11:00 A.M. at WQA
- (d) The next WQA Board meeting will be held on Wednesday, October 16, 2019 at 12:00 P.M. at WQA
- XVI. BOARD MEMBERS' COMMENTS/REPORTS** **MARQUEZ**
- XVII. CLOSED SESSION** **MARQUEZ**
- (a) Pursuant to Government Code Section 54957(b)(1) – Public Employment
- Title: Executive Director
- 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 AUGUST 21, 2019 AT 12:00 P.M.

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### CALL TO ORDER

Mr. Marquez 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, Tim Miller, Valerie Munoz, Mike Whitehead, Mark Paulson and Al Contreras (Alternate)

### BOARD MEMBERS ABSENT

Ed Chavez

### STAFF MEMBERS PRESENT

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

### MEMBERS OF THE PUBLIC PRESENT

Jazmin Lopez, Valley County Water District; Lenet Pacheco, Valley County Water District; David Muse, Valley County Water District; Brian Bowcock, Three Valleys Municipal Water District; Paul DiMaggio, Suburban Water Systems; Jose Martinez, Valley County Water District; Carmen McColley, Resident; Maria Anne Perez, Resident

### PUBLIC COMMENT

None.

### ITEMS TOO LATE TO BE AGENDIZED

None.

### PUBLIC HEARING

#### *To Receive Comments on the Proposed 2019/2020 Fiscal Year \$12.00/Acre-Foot Assessment on Those Holding Prescriptive Water Pumping Rights in the San Gabriel Basin*

Ms. Saenz gave a brief presentation on the \$12/Acre-foot assessment and noted that the assessment increase was directly tied to the 50% match requirement to secure Proposition 1 & 68 bond funding for cleanup projects.

Mr. Manning indicated that four protest letters were received from the general public regarding the increase in the assessment for prescriptive pumping rights holders. He indicated that, in general, they were concerned about the impact to their water rates. He noted that even though WQA has no direct control over water rates, WQA remains sensitive to ratepayers and increased the assessment to assure WQA has the 50% match available to secure additional state grant



funding.

Mr. Marquez opened the public hearing to receive comments. There being none, he closed the public hearing.

## **CONSENT CALENDAR**

Mr. Miller moved to approve the consent calendar. Mr. Paulson seconded the motion and it was approved. Mr. Whitehead abstained from project demand Nos. E90649 and E90662

## **COMMITTEE REPORTS**

### ***Administrative/Finance Committee Report***

Ms. Munoz entered the meeting.

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

### ***Discussion/Action Regarding Affirmation of WQA Investment Policy and Guidelines***

Mr. Manning reported that the WQA investment guidelines require WQA to invest its public funds in a manner which will provide the highest investment return while meeting the daily cash flow demands, maintaining an appropriate risk level and conforming to all state and local statutes. Procedure No. 26 itemizes the acceptable investment instruments for the WQA and includes a specific requirement that investments be limited to a 12-month term. He noted that the WQA Investment Policy was discussed briefly at the February 12, 2019 Administrative/Finance Committee meeting, and at that time the Committee agreed that the policy was acceptable as is and did not need to be modified.

After brief discussion, Mr. Miller moved to reaffirm the WQA investment policy and guidelines. Mr. Paulson seconded the motion and it was unanimously approved.

### ***Report on Cash and Investments – 2<sup>nd</sup> Quarter 2019***

Mr. Manning reported that the report on cash and investments for the 2<sup>nd</sup> quarter of 2019 was enclosed in the agenda packet for review.

### ***Discussion/Action Regarding ACWA Region 8 Elections for 2020/2021***

Mr. Manning reported that it was time to elect the 2020-2021 ACWA Region 8 officers and board members who will represent and serve the members of Region 8. He indicated that the Region 8 Nominating Committee has recommended a slate of members, or individual members could be selected.

After some discussion, Mr. Kuhn made a motion to not accept the nominating committee's recommended slate and to vote for the following:

Chair – Steve Blois

Vice-Chair – Anthony Fellow

Board Members – Brian Bowcock, Anselmo Collins, William Cooper, Anthony Fellow, Leonard E. Polan

Mr. Whitehead seconded the motion and it was unanimously approved.



*Discussion/Action Regarding  
ACWA Committee Appointments  
for the 2019/2020 Term*

Mr. Manning reported that it was time to nominate members to ACWA Committees for the 2020/2021 term. He noted that currently the WQA committee appointments are:

Groundwater Committee – Ken Manning and Randy Schoellerman

Water Quality Committee – Randy Schoellerman

Communications Committee – Stephanie Moreno

Mr. Manning noted that staff was also recommending a new appointment of Stephanie Moreno to the Local Government Committee

After brief discussion, Ms. Munoz moved to approve the proposed ACWA Committee appointments, Mr. Contreras seconded the motion and it was unanimously approved.

*Discussion/Action Regarding  
Proposal from CV Strategies for  
Website Redesign*

Mr. Manning reported that the WQA web site has not been re-designed in more than 8 years and needs an updated look along with better organization and site navigation to make it more user-friendly. He indicated that staff had received a couple of quotes for the redesign and is recommending that the proposal from CV Strategies, in an amount not to exceed \$10,000, is approved.

After some discussion, Mr. Paulson moved to approve the proposal from CV Strategies for the WQA website redesign. Mr. Contreras seconded the motion and it was unanimously approved.

*Discussion Regarding Proposed  
Services Provided by Civic  
Publications*

- a. *Public Outreach*
- b. *Annual Report*
- c. *Accounting Services*

Mr. Manning reported that Civic Publications has submitted proposals for three different services for the WQA.

He reported that the first proposal was for several WQA advertorials that Civic Publications produces and publishes in the Los Angeles Times and the San Gabriel Valley Newspaper Group. He indicated that the proposal was the same as last years in the amount of \$115,174.

The second proposal was for Civic Publications to produce the WQA's annual report. He indicated that Civic Publications works with staff all year long to produce the advertorials where much of that content would be included in the annual report. He noted that the \$13,275 proposal is lower than the current annual report cost, and it includes the cost for printing, which was not included in the current cost.

The third proposal was for accounting services in an amount not to exceed \$15,000. He indicated that Judy Lancaster, who is the President of Civic Publications, has a great deal of



experience in the public accounting field. He reminded the committee that in lieu of hiring a staff accountant as a permanent employee, the Board has authorized the engagement of an experienced professional accountant as a consultant to the WQA on an as needed basis. He reported that staff is requesting that the WQA enter into a contract with Civic Publications to provide accounting consulting services for the period of July 1, 2019 to June 30, 2020 in an amount not to exceed \$15,000. He noted that Ms. Lancaster has many years of experience in working with governmental agencies, including the WQA for which she consulted on a time study prepared for the Environmental Protection Agency. Finally, he explained that because of her experience and knowledge, staff was recommending the engagement of Ms. Lancaster as the accounting consultant for the fiscal year 19/20.

Mr. Contreras asked to confirm that there were no conflicts and that the three services would be invoiced separately. Mr. Manning indicated that the services would be invoice separately. Mr. Padilla indicated that there are no conflicts of interest in these proposals.

After some discussion, Mr. Kuhn moved to approve all three proposals from Civic Publications. Ms. Munoz seconded the motion and it was unanimously approved.

*Discussion/Action Regarding  
Stetson Engineers Task Order for  
DDW Policy 97-005 Guidance  
Manual*

Mr. Manning reported that the WQA Board has authorized Task Orders to Stetson Engineers totaling \$25,000 to develop a Policy 97-005 Guidance Manual. He noted that at the time of approval staff noted that this amount fulfilled WQA's commitment to the effort and that other agencies had committed to fund the balance. He indicated that staff is requesting an increase of \$40,000 in the task order to Stetson to continue the preparation of the Policy 97-005 Guidance Manual while agreements to reimburse WQA are worked out. Lastly, he noted that in accordance with WQA procedures, staff is submitting a request for a budget line item transfer to increase the budget for General Discharge Permit activities by \$25,000 (from \$15,000 to \$40,000), and to decrease the budget for Database and Mapping by \$25,000 (from \$95,000 to \$70,000.)

Mr. Whitehead indicated that the San Gabriel Valley has numerous 97-005 projects and that WQA has an important role in this effort, especially with many changes and new technology becoming available.

Mr. Paulson noted it was possible that WQA might not get reimbursed for these costs. Mr. Manning agreed and indicated that WQA could absorb the costs if necessary.

After detailed discussion, Mr. Miller moved to approve the following:



- a. Increase of \$40,000 in a task order to Stetson Engineers
- b. Line Item Transfer Form- SGBWQA A-15
- c. Demand No. 7130

Ms. Munoz seconded the motion and it was unanimously approved.

### ***Legislative Committee Report***

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

### **OTHER ACTION/INFORMATION ITEMS**

***Adopt Resolution No. 19-007, A Resolution of the San Gabriel Basin Water Quality Authority Imposing an Annual Prescriptive Pumping Right Assessment to pay for the Authority Budget for Fiscal Year 2019/2020***

Mr. Kuhn moved to adopt Resolution No. 19-007, a Resolution of the San Gabriel Basin Water Quality Authority Imposing an Annual Prescriptive Pumping Right Assessment to pay for the Authority budget for fiscal year 2019/2020. Ms. Munoz seconded the motion and it was adopted by the following roll call vote:

AYES: MARQUEZ, KUHN, MILLER, MUNOZ, WHITEHEAD, PAULSON, CONTRERAS

NO: NONE

### **ENGINEER'S REPORT**

Mr. Schoellerman gave a brief update on the Prop 1 Whitmore Project. He also reported that the guidelines for the Prop 68 funding were expected to be finalized soon.

### **ATTORNEY'S REPORT**

Mr. Padilla reported that a closed session would be needed today.

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

Mr. Manning reported that staff has reviewed the first draft of the plume animation that Wildermuth Environmental had been working on. He noted that SB 413 (Rubio) would be on the Assembly floor for a vote the following day. Next, he reviewed a fact sheet on PFOA and PFOS. And lastly, he noted that the WQA had received a request for support for the nomination of an ACWA Vice Chairperson.

### **FUTURE AGENDA ITEMS**

None.

### **FUTURE BOARD AND COMMITTEE MEETINGS**

None.

### **BOARD MEMBERS' COMMENTS/ REPORTS**

Mr. Contreras commented on the homeless issue near the riverbeds and questioned if it could cause a contamination issue.

Mr. Manning reported that it would be most likely a surface water issue and not a groundwater issue.



Ms. Munoz reported that she was able to attend a lot of meetings this month and noted that Bassett Unified School District was interested in doing a water certification program.

Mr. Miller reported that he was a speaker at the NGWA Conference in Washington, D.C.

Mr. Marquez reported that he had a very busy month with community meetings and tours.

## **CLOSED SESSION**

***Pursuant to Government Code  
Section 54957(b)(1) – Public  
Employment***

***Title: Executive Director***

Mr. Padilla reported that a closed session was held. He indicated that general direction was given and no action was taken.

## **ADJOURNMENT**

The Chairman asked if there were any other items of business to come before the Board. There being none, the meeting was adjourned in the memory of Norma Jean Manning to September 18, 2019.

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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 SEPTEMBER 10, 2019 AT 10:00 A.M.

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<b>CALL TO ORDER</b>	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.
<b>COMMITTEE MEMBERS PRESENT</b>	Mike Whitehead, Bob Kuhn, and Mark Paulson,
<b>WATERMASTER LIASON</b>	None.
<b>COMMITTEE MEMBERS ABSENT</b>	None.
<b>OTHER BOARD MEMBERS PRESENT</b>	None.
<b>STAFF MEMBERS PRESENT</b>	Ken Manning, Executive Director; Randy Schoellerman, Assistant Executive/Senior Engineer; Stephanie Moreno, Executive Assistant/Public Outreach Coordinator; Mary Saenz, Director of Finance; Michelle Sanchez, Accounting Assistant; Dan Colby, Project Resource Manager
<b>MEMBERS OF THE PUBLIC PRESENT</b>	David Muse, Valley County Water District
<b>PUBLIC COMMENT</b>	None.
<b><i>Discussion Regarding Draft 404 Status Report for September 2019</i></b>	<p>Mr. Schoellerman explained that this would be the last 404 Status Report if the Governor signs SB413. Future status reports would be incorporated into the 406 Plan. He reviewed several updates, including Table 1 which details the current \$500M funding gap</p> <p>Mr. Kuhn remarked that in future reports it would be beneficially to make a connection between the amounts listed in Table 1 and the cleanup progress in each operable unit.</p> <p>After detailed discussion, the committee recommended that the draft 404 Status Report for September 2019 go to the full Board for approval.</p>
<b><i>Discussion Regarding Monitoring Well MW5-19 Access Agreement with County of Los Angeles Department of Parks and</i></b>	Mr. Schoellerman reported that the WQA coordinated the construction of several monitoring wells in the Baldwin Park Operable Unit (BPOU) in the 1990's and early 2000's. He indicated that staff has been in the process of reviewing each of



## ***Recreation***

these agreements for necessary modifications and renewals. He reported that the BPOU monitoring well MW5-19 was constructed on the County of Los Angeles Department of Parks and Recreation's East County Community Services Agency and Regional Facility Agency Yard located at 265 Cloverleaf Drive, Baldwin Park, CA 91706. He noted that the agreement allows access the site for the purpose of sampling and maintaining the well.

After brief discussion, the committee recommended that the access permit and license agreement go to the full Board for approval.

## **EXECUTIVE DIRECTOR'S REPORT**

Mr. Manning reported that staff was notified that their submission of the WQA's Eco Voices program to the National Groundwater Association has been awarded the 2019 Groundwater Awareness Award. He lastly noted that staff has reviewed the plume animation that Wildermuth Environmental has been working on and will present it to the Board at the next Board meeting.

## **ADJOURNMENT**

Mr. Whitehead 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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Chairman

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Secretary



# **DRAFT**

## **SAN GABRIEL BASIN WATER QUALITY AUTHORITY LEGISLATIVE/PUBLIC INFORMATION COMMITTEE AND SPECIAL MEETING OF THE BOARD OF DIRECTORS SEPTEMBER 11, 2019 AT 11:00 A.M.**

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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, Bob Kuhn and Valerie Munoz

### **WATERMASTER LIASON**

None.

### **COMMITTEE MEMBERS ABSENT**

None.

### **OTHER BOARD MEMBERS PRESENT**

None.

### **STAFF MEMBERS PRESENT**

Ken Manning, Executive Director; Stephanie Moreno, Executive Assistant/Public Outreach Coordinator; Michelle Sanchez, Accounting Assistant; Dan Colby, Project Resource Manager; Randy Schoellerman, Assistant Executive Director/Sr. Engineer

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

Chris Lancaster, Civic Publications; Margarita Vargas, Valley County Water District; Lenet Pacheco, Valley County Water District; Gabriel Monares, The Monares Group

None.

### ***Discussion Regarding National Groundwater Association Groundwater Awareness Award***

Mr. Manning reported that the WQA's submission of the Eco Voices Program had won the NGWA Groundwater Awareness Award for 2019. He indicated that the award ceremony was scheduled for December 3<sup>rd</sup>, the Wednesday morning of the NGWA Conference at the Las Vegas Convention Center. He noted that he would be attending the ACWA Conference in San Diego but would fly to NGWA conference in Las Vegas to receive the award. He commented that board members wishing to attend should let Ms. Moreno know so she could coordinate the travel.

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

Mr. Manning reported that he would like to highlight the NGWA award in the next advertorial.

Mr. Lancaster commented that we could have the text and layout done ahead of time and would get pictures from the



award ceremony to add to the ad. He noted that this publication could come out in mid-December.

***Legislative Activities/Reports***

**State**

Mr. Manning reported that SB 413 (Rubio) is on the Governor's desk awaiting signature. He noted that support letters have been sent in. He lastly reviewed three potential water bonds that WQA is tracking.

**Federal**

Mr. Manning gave a brief update on the \$10M request for the San Gabriel Basin Restoration Fund. He noted that the request is now part of the Energy and Water Development Appropriations bills that are currently under review in Congress.

**EXECUTIVE DIRECTOR'S  
REPORT**

He reported that he would be on vacation from September 22 thru October 4.

**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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Chairman

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Secretary



**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
D01578	Bob Kuhn	Board Member Compensation for August 2019	
		3 Days WQA Business	448.29
		Meeting/Travel Expenses/Other	49.88
		Less Deferred Compensation	(414.00)
		Less Taxes Withheld	(34.29)
			49.88
D01579	Michael Whitehead	Board Member Compensation for August 2019	
		3 Days WQA Business	448.29
		Meeting/Travel Expenses/Other	0.00
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(34.29)
			414.00
D01580	Ed Chavez	Board Member Compensation for August 2019	
		6 Days WQA Business	896.58
		Meeting/Travel Expenses/Other	0.00
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(68.59)
			827.99
D01581	Jorge Marquez	Board Member Compensation for August 2019	
		5 Days WQA Business	747.15
		Meeting/Travel Expenses/Other	15.08
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(376.65)
			385.58
D01582	Valerie Munoz	Board Member Compensation for August 2019	
		3 Days WQA Business	448.29
		Meeting/Travel Expenses/Other	6.96
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(34.29)
			420.96
D01583	Mark Paulson	Board Member Compensation for August 2019	
		2 Days WQA Business	298.86
		Meeting/Travel Expenses/Other	28.88
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(22.86)
			304.88
D01584	Alfonso Contreras	Board Member Compensation for August 2019	
		1 Day WQA Business	149.43
		Meeting/Travel Expenses/Other	0.00
		Less Deferred Compensation	0.00
		Less Taxes Withheld	(11.43)
			138.00
EFT/ACH	SGBWQA - Payroll Fund	Replenish payroll fund for August 2019	
		Staff Payroll	94,170.48
		Board Deferred Compensation-Lincoln Life	414.00
		Board Payroll Taxes - Federal & State	845.30
			95,429.78
		<b>Total replenishment to payroll fund</b>	<b>97,971.07</b>
EFT/ACH	SGBWQA - Revolving Fund	Replenish revolving fund for 08/01/19 to 08/31/19 disbursements	
		Computer Systems O&M	874.97
		Copier Machine	411.72
		Group Insurance	1,142.69
		Meeting & Conferences	212.00
		Office Supplies	175.17
		Outside Services: Computer Consultant	444.69
		Public Relations	3,000.00
		Telephone Service	846.74
		Project Costs	2,449.03
			9,557.01
7131	ACWA/JPIA	Invoice No. 627624, Medical and life insurance premiums for October 1, 2019 to November 1, 2019	8,492.43

mk  
9-12-19



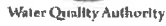
**DRAFT**

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

Check No.	Payable to	Description	Amount
7132	Accent Computer Solutions, Inc.	Invoice No. 130149, Professional IT services for September 2019	1,338.49
7133	ACI Consulting	Invoice No. 42972, Professional consulting services for accounting software for August 2019	977.50
7134	Bank of America	Invoice No. '19-08Aug-KM', Credit card expenses incurred for 08/01/19 to 08/31/19	
		Meetings & Conferences	879.00
			879.00
7135	Bank of America	Invoice No. '19-08Aug-RS', Credit card expenses incurred for 08/01/19 to 08/31/19	
		Office Supplies	967.77
		Internet Service	29.95
		Subscription	529.90
		Meetings & Conferences	236.00
			1,763.62
7136	Civic Publications	Invoice No. 1533, Professional services for August 2019 - California Water	8,755.00
7137	Civic Publications	Invoice No. 1540-JL, Professional accounting services for July and August 2019	3,306.25
7138	Emerald Isle	Invoice No. '19-09Sep', Plant maintenance for September 2019	197.10
7139	The Gualco Group	Invoice No '19-08Aug', Professional consulting services for August 2019	5,320.00
7140	Kadesh & Associates, LLC	Invoice No. 9-19, Professional consulting services for August 2019	15,000.00
7141	The Monares Group, LLC	Invoice No. '19-10Oct', Professional consulting services for October 2019	16,000.00
7142	Nestle Pure Life Direct	Invoice No. 29H0013610332, for August 2019 services	56.33
7143	Olivarez Madruga Lemieux O'Neill, LLP	Invoice No. 8032, Professional legal services for July 2019	1,277.50
7144	Ruffle Properties, LLC	Office lease, CAM, and Storage for October 2019	
		Invoice No. '19-10Oct', Office lease	6,845.79
		Invoice No. '19-10Oct-CAM', Electricity charges	643.20
		Invoice No. '19-10Oct-Storage', Storage Room	150.00
			7,638.99
7145	Wildermuth Environmental, Inc.	Invoice No. 2019258, Professional services for July 2019	5,775.00
<b>TOTAL</b>			<b>184,305.29</b>

mlb  
9-12-19





## Mileage Rate: \$0.58 per mile (updated January 2019)

MONTH/YEAR: Aug-19

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

**San Gabriel Basin WQA  
Board Member's Expense Sheet  
edited for AB 1234 January 2017**





Water Quality Authority

Board Member Per Diem  
\$149.43 per meeting, 6 meeting maximum per month  
Mileage Rate: \$0.575 per mile updated January 2011

## EXPENSE SHEET

NAME: Michael Whitehead MONTH/YEAR: Aug-19

DATE	MEETING DESCRIPTION	Roundtrip Mileage	# of Days (not to exceed 6)	\$149.43 PER DIEM
8/13/19	WQA Board and Admin. And Finance Committee Meeting		1	\$149.43
8/21/19	WQA Board Meeting		1	\$149.43
8/29/19	Meeting w/ K. Manning re: succession planning		1	\$149.43
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>Total Meetings</b>			<b>3</b>	<b>\$448.29</b>
<b>Total Mileage (at \$0.575 per mile)</b>		<b>0</b>		<b>\$0.00</b>

DATE	Expense Reimbursement Description	Amount	Receipt Attached
		\$0.00	
		\$0.00	
		\$0.00	
		\$0.00	
	<b>TOTAL Expenses</b>	<b>\$0.00</b>	
<b>TOTAL MEETINGS, MILEAGE, EXPENSES</b>		<b>\$448.29</b>	
457	Deferred Compensation Amount (enter a positive number)		
<b>TOTAL</b>		<b>\$448.29</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





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: Aug-19

DATE	MEETING DESCRIPTION	Roundtrip Mileage	# of Days (not to exceed 6)	\$149.43 PER DIEM
8/7/19	Baldwin Park City Council Meeting		1	\$149.43
8/8/19	Meeting with Richard Angel, Councilman - City of South El Monte		1	\$149.43
8/13/19	San Gabriel County Water District Board of Directors' Meeting		1	\$149.43
8/14/19	San Gabriel Valley Water Association Quarterly Meeting		1	\$149.43
8/22/19	The Greater Los Angeles Area Council, BSA 2019 Distinguished Citizens Award Reception		1	\$149.43
8/28/19	Inwindale City Council Meeting		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>
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

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.





**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: JORGE A. MARQUEZ MONTH/YEAR: AUG. 2019

DATE	MEETING DESCRIPTION	Roundtrip Mileage	# of Days (not to exceed 6)	\$149.43 PER DIEM
8/8/19	Greater West Covina Chamber - Congresswoman Napolitano Event WQA Sponsor - WEST COVINA	0	1	\$149.43
8/12/19	Regional Chamber of Commerce Government Committee - WALNUT	26	1	\$149.43
8/13/19	WQA Administration Committee Meeting - WEST COVINA	0	1	\$149.43
8/14/19	WQA Legislative Committee Meeting - WEST COVINA	0	1	\$149.43
8/21/19	WQA - Board Meeting - WEST COVINA	0	1	\$149.43
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>Total Meetings</b>			<b>5</b>	<b>\$747.15</b>
<b>Total Mileage (at \$0.58 per mile)</b>		<b>26</b>		<b>\$15.08</b>

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

<b>TOTAL MEETINGS, MILEAGE, EXPENSES</b>		<b>\$762.23</b>
457	Deferred Compensation Amount (enter a positive number)	
<b>TOTAL</b>		<b>\$762.23</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: ~~\$0.545~~ <sup>.58</sup> per mile

(updated January 2018)

## EXPENSE SHEET

NAME:

Valerie Munoz

MONTH/YEAR:

Aug-19

DATE	MEETING DESCRIPTION	Roundtrip Mileage	# of Days (not to exceed 5)	\$149.43 PER DIEM
8/14/19	WQA Leg and Pub Meeting	8	1	\$149.43
8/20/19	Meeting with Bassett USD Board Member Paul Solano/Ms French	0	1	\$149.43
8/21/19	WQA Board Meeting	6	1	\$149.43
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
Total Meetings <sup>.58</sup>			3	\$448.29
Total Mileage (at \$0.545 per mile)		12		\$6.54 <sup>6.96</sup>

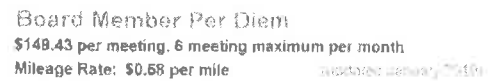
DATE	Expense Reimbursement Description (receipts required)	Amount
TOTAL Expenses		\$0.00
TOTAL MEETINGS, MILEAGE, EXPENSES		<sup>455.29</sup> \$454.83
457	Deferred Compensation Amount (enter a positive number)	
TOTAL		<sup>455.29</sup> \$454.83

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

*WQ*

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.



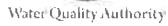


NAME: Mark Paulson MONTH/YEAR: Aug-19

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

San Gabriel Basin WQA  
Board Member's Expense Sheet  
edited for AB 1234 January 2017





**Mileage Rate: \$0.58 per mile** (updated January 2019)

**NAME:** Alfonso Contreras **MONTH/YEAR:** Aug-19

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

**San Gabriel Basin WQA**  
**Board Member's Expense Sheet**  
**edited for AB 1234 January 2017**



**DRAFT**

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

Check No.	Payable to	Description	Amount	Funding Sources
<b><u>BALDWIN PARK OPERABLE UNIT</u></b>				
4686	RC Foster Corporation	Invoice No. 02-19-035, Project spare parts costs for September 2019	725.71	CR's
<b><u>SOUTH EL MONTE OPERABLE UNIT</u></b>				
4687	Avocet Environmental Inc.	Project costs for Whitmore Groundwater Treatment system/Hydropunch activities		
		Invoice No. 5807 -Whitmore GW Treatment System	6,529.97	
		Invoice No. 5808 - Round 1 Prop 1-Whitmore Hydropunch	5,615.16	12,145.13 WQA/Prop 1
E90670	Golden State Water Company	Project T&R costs for SG1 & 2 VOC for January thru June 2019		
		Invoice No. 1205657-ACD, January thru March 2019	27,588.22	
		Invoice No. 1213230-ACD, April thru June 2019	6,693.36	34,281.58 EPA
E90671	San Gabriel Valley Water Co.	Project T&R Costs for Plant 8 LGAC and Air Stripper for January thru June 2019		
		Invoice No. 19-05139, Plant 8 A.S. for January	7,926.45	
		Invoice No. 19-05147, Plant 8 LGAC for January	6,356.06	
		Invoice No. 19-05153, Plant 8 A.S. for February	11,187.50	
		Invoice No. 19-05154, Plant 8 LGAC for February	8,818.91	
		Invoice No. 19-06161, Plant 8 A.S. for March	5,767.35	
		Invoice No. 19-06162, Plant 8 LGAC for March	5,967.77	
		Invoice No. 19-06196, Plant 8 A.S. for April	9,332.06	
		Invoice No. 19-06197, Plant 8 LGAC for April	55,480.24	
		Invoice No. 19-07211, Plant 8 A.S. for May	18,638.68	
		Invoice No. 19-07214, Plant 8 LGAC for May	122,950.95	
		Invoice No. 19-08239, Plant 8 A.S. for June	17,605.95	
		Invoice No. 19-08240, Plant 8 LGAC for June	9,961.55	279,993.47 EPA
<b>Total Project Costs</b>			<b>327,145.89</b>	
<b><u>SOUTH EL MONTE OPERABLE UNIT - TRUSTEE</u></b>				
E90672	Golden State Water Company	Project T&R costs for SG1 & 2 for January thru June 2019		
		Invoice No. 1205657-B, January to March 2019	686.00	
		Invoice No. 1213230-B, April to June 2019	410.00	1,096.00 RP's
E90673	San Gabriel Valley Water Co.	Project T&R Costs for Plant G4 LGAC for January thru June 2019		
		Invoice No. 19-05149, Plant G4 LGAC - January	5,700.70	
		Invoice No. 19-05156, Plant G4 LGAC - February	6,855.05	
		Invoice No. 19-06165, Plant G4 LGAC - March	6,034.53	
		Invoice No. 19-06198, Plant G4 LGAC - April	6,872.74	
		Invoice No. 19-07215, Plant G4 LGAC - May	8,198.56	
		Invoice No. 19-08241, Plant G4 LGAC - June	6,811.96	40,473.54 RP's
<b>Total Trustee Costs</b>			<b>41,569.54</b>	
<b>Total Project and Trustee Costs</b>			<b>368,715.43</b>	

mbo  
9-12-19



**DRAFT**

The following demands on the Project Fund Account at Bank of the West are hereby submitted for payment. Subsequent release of the demands is expected to be on October 1, 2019, subject to approval and availability of funds pursuant to the BPOU Project Agreement Section 4.7 Payment of Invoices.

Check No.	Payable to	Description	Amount	Funding Sources
<b><u>BALDWIN PARK OPERABLE UNIT</u></b>				
E90674	La Puente Valley County WD	Invoice No. 4-2019-08, Project T&R costs for August 2019	67,575.03	CR's
4688	Main San Gabriel Basin Watermaster	Invoice No. 02-211, Administrative Project Costs for August 2019		
		Administrative costs	68,120.64	
		T&R costs	<u>13,242.84</u>	CR's
4689	Suburban Water Systems	Invoice No. 59880819, for project T&R costs for August 2019	258,708.92	CR's
4690	Valley County Water District	Project costs for August 2019		
		Invoice No. 397-CR, T&R costs	(40.46)	
		Invoice No. 398, Capital costs	52,728.40	
		Invoice No. 398, T&R costs	83,741.66	
		Invoice No. 399, T&R costs	29,696.42	
		Invoice No. 400, T&R costs	<u>33,441.52</u>	CR's
4691	California Domestic Water Co.	Project costs for August 2019		
		Invoice No. 3297, T&R costs for Perchlorate	25,830.31	
		Invoice No. 3298, T&R costs for NDMA & VOC's	<u>80,062.07</u>	CR's
E90675	San Gabriel Valley Water Co.	Project costs for July 2019		
		Invoice No. 19-08261, B5 T&R costs	104,286.57	
		Invoice No. 19-08265, B5 T&R costs	18,306.61	
		Invoice No. 19-08260, B6 T&R costs	206,520.92	
		Invoice No. 19-08266, B6 T&R costs	24,971.36	
		Invoice No. 19-08267, B6 Capital costs-UV Flex Treatment Plant	<u>5,078.49</u>	CRs
<b>Total BPOU Project Costs</b>			<u><u>1,072,271.30</u></u>	

*mls*  
9-12-19





# 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 Members  
**From:** Kenneth R. Manning, Executive Director  
**Date:** September 18, 2019  
**Subject:** **Draft 404 Status Report for September 2019**

---

### **Background and Discussion**

In 2007, legislation created Chapter 404, Statutes of 2007 (AB1010, Hernandez) added Section 711 to the WQA statutes. Under this section, the WQA is required to provide a status report semi-annually on its activities undertaken pursuant to the §406 plan. As such, much of the information provided in this status report is already available in the §406 plan. This report to the State Water Resources Control Board (SWRCB) and the Los Angeles Regional Water Quality Control Board (LARWQCB) is due September 30, 2019 and is prepared to comply with Section 711 for WQA activities through June 30, 2019.

On August 30, 2019, the Legislature passed SB413 (Rubio) which repeals Section 711 and shifts its reporting requirements to Section 406 of the WQA Act. If it is signed by the Governor this will be the final status report as required under Section 711. Future status reports will be incorporated into WQA's annual §406 Plan updates and delivered to the SWRCB and LARWCB upon adoption by the WQA Board.

### **Recommendation / Proposed Action**

Approve the Draft 404 Status Report for September 2019.

### **Attachments**

*Draft 404 Status Report for September 2019*





## Water Quality Authority

### Semi-Annual Status Report

Prepared Pursuant to Ch. 404/Statutes of 2007

**DRAFT**

**September 18, 2019**

### Board of Directors

Jorge Marquez, Chairman  
Bob Kuhn, Vice Chairman  
Mark Paulson, Treasurer  
Valerie Munoz, Secretary  
Michael Whitehead, Board Member  
Tim Miller, Board Member  
Ed Chavez, Board Member



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FIGURE 2 – PRESCRIBED REMEDY (BALDWIN PARK OPERABLE UNIT)

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FIGURE 9 – EARLY INVESTIGATION (AREA 3 OPERABLE UNIT)

FIGURE 10 – SUPERFUND VS. NON-SUPERFUND CONTAMINATION

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FIGURE 12 – THE TOTAL AMOUNT OF WATER TREATED AND CONTAMINANTS REMOVED IN THE BASIN



## TERMS AND ACRONYMS

§406	San Gabriel Basin Groundwater Quality Management and Remediation Plan
ACT	The California Safe Drinking Water Act (Health & Safety Code §§ 116275 <i>et seq.</i> )
ARARs	Applicable or Relevant and Appropriate Requirements
ARMWC	Adams Ranch Mutual Water Company
Basin	Main San Gabriel Basin
Basin Plan	LARWQCB Los Angeles Basin Plan
BATT	Best Available Treatment Technology
BPOU	Baldwin Park Operable Unit
CBMWD	Central Basin Municipal Water District
CD	Consent Decree
CDWC	California Domestic Water Company
CEM	City of El Monte
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CrVI	Chromium VI (Hexavalent Chromium)
CMP	City of Monterey Park
CPUC	California Public Utilities Commission
DDW	State Water Resources Control Board, Division of Drinking Water (formerly California Department of Public Health)
DTSC	Department of Toxic Substances Control
EC	Emergent Chemicals
EMOU	El Monte Operable Unit
ESD	Explanation of Significant Differences
ESPSD	East Side Performing Settling Defendant
FFPA	Federal Funding Program Administration
General Permit	LARWQCB Issued General NPDES Permit No. CAG914001
GSWC	Golden State Water Company
IROD	Interim Record of Decision
IRWMP	Integrated Regional Water Management Plan
LACFCD	Los Angeles County Flood Control District
LARWQCB	Los Angeles Regional Water Quality Control Board
LPVCWD	La Puente Valley County Water District
MCL	Maximum Contaminant Level
MSBWM	Main San Gabriel Basin Watermaster
NCP	National Contingency Plan
NDMA	N-Nitrosodimethylamine
NL	Notification Level
Northrop	Northrop Grumman Systems Corporation
OAL	Office of Administrative Law
OEHHA	Office of Environmental Health Hazard Assessment
OU	Operable Unit
Process Memo 97-005	State Water Resources Control Board, Division of Drinking Water Process Memo 97-005
PRPs	Potentially Responsible Parties
PVOU	Puente Valley Operable Unit
PVOUSC	Puente Valley Operable Unit Steering Committee
QSA	Quantification Settlement Agreement
Restoration Fund	San Gabriel Basin Restoration Fund



RI/FS	Remedial Investigation Feasibility Study
ROD	Record of Decision
SA1	Subarea 1
SEMOU	South El Monte Operable Unit
SGVWC	San Gabriel Valley Water Company
SEMOU Barrier	South El Monte Shallow Extraction Barrier
SWRCB	State Water Resources Control Board
SWS	Suburban Water Systems
TCP	1,2,3-Trichloropropane
TDS	Total Dissolved Solids
Title XVI	San Gabriel Basin Demonstration Project
USBR	United States Bureau of Reclamation
USEPA	The United States Environmental Protection Agency
USGVMWD	Upper San Gabriel Valley Municipal Water District
UTC	United Technologies Corporation
UWMP	Urban Water Management Plan
VCWD	Valley County Water District
VOC	Volatile Organic Compound
Watermaster	Main San Gabriel Basin Watermaster
WQA	San Gabriel Basin Water Quality Authority
WQA Act	San Gabriel Basin Water Quality Authority's Enabling Act
WSGRF	Whitmore Street Groundwater Remediation Facility
WSPSD	West Side Performing Settling Defendant



## **About WQA**

The San Gabriel Basin Water Quality Authority (“WQA”) was formed by a special act of the California Legislature in 1992 (Senate Bill 1679, Russell). The statute gives WQA authority, *inter alia*, to plan for and to coordinate among several agencies with authority affecting cleanup of the San Gabriel Basin (“Basin”). §406 of the statute requires WQA to develop and adopt a basinwide groundwater quality management and remediation plan (referred to as the §406 Plan). The current §406 Plan, as referenced in this report, was adopted on January 22, 2019.

## **Purpose of Ch. 404 Status Report**

In 2007, legislation created Chapter 404, Statutes of 2007 (AB1010, Hernandez) added Section 711 to the WQA statutes. Under this new section, the WQA is required to provide a status report semi-annually on its activities undertaken pursuant to the §406 Plan. As such, much of the information provided in this status report is already available in the §406 Plan. This report to the State Water Resources Control Board (“SWRCB”) and the Los Angeles Regional Water Quality Control Board (“LARWQCB”) is due September 30, 2019 and is prepared to comply with Section 711 for WQA activities through June 30, 2019.

Note: On August 30, 2019, the Legislature passed SB413 (Rubio) which repeals Section 711 and shifts the reporting requirements to Section 406 of the WQA Act. If it is signed by the Governor, this will be the final status report as required under Section 711. Future status reports will be incorporated into WQA’s annual §406 Plan updates and delivered to the SWRCB and LARWQCB upon adoption by the WQA Board.



## Overview of Groundwater Contamination in the San Gabriel Basin

*The groundwater Basin has the dubious distinction of being one of the most contaminated in the nation. The Basin's groundwater is contaminated from the ground disposal—dating back to World War II— of synthetic organic compounds used primarily as solvents in industrial and commercial activities.*

The seriousness of the groundwater contamination problem became evident when high concentrations of volatile organic compounds (“VOCs”) were discovered in Azusa in 1979 near a major industrial complex. Over the next four years, further investigation revealed widespread VOC contamination significantly impacting the Basin. This discovery led United States Environmental Protection Agency (“USEPA”) to place four portions of the Basin on the National Priorities List under authority of Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (“CERCLA”), also known as the Superfund program.

Unfortunately, in 1997, newly detected contaminants, perchlorate and N-Nitrosodimethylamine (“NDMA”) liquid/solid rocket fuel, complicated and delayed progress of cleanup activities. Most notably affected was the largest geographical area of the San Gabriel Valley Superfund site known as the Baldwin Park Operable Unit (“BPOU”). This led USEPA, state and local agencies to conduct further investigation of the sources and treatment technologies available for remediating groundwater for potable use.

In prior years, several VOC treatment/supply projects were expanded at significant costs to treat perchlorate and other emerging compounds. More recently, many of these multiple treatment train projects were further burdened with increased levels of VOCs. As a result, additional VOC treatment, also known as a secondary barrier, was needed to meet State Water Resources Control Board, Division of Drinking Water (“DDW”) permitting requirements under its 97-005 Process Memo for Extremely Impaired Sources (“Process Memo 97-005”). While the additional treatment is necessary, each step has incrementally increased the costs of capital construction and treatment and remediation resulting in an overall project cost 4 to 5 times the original VOC treatment/supply project. Of all of the operable units (“OUs”) in the basin, South El Monte Operable Unit (“SEMOU”) has been affected the most by the need for additional treatment.

On February 1, 2015, the Office of Environmental Health Hazard Assessment (“OEHHHA”) officially lowered its Public Health Goal (“PHG”) for perchlorate to 1 ppb, and in 2017 DDW began the process of re-evaluating the current 6 ppb MCL for perchlorate by studying the feasibility of lowering the laboratory reporting limit for perchlorate to 1 ppb. Should DDW ultimately decide to lower the MCL as well additional perchlorate treatment



will be required in the Basin. Additionally, the USEPA has announced that they will establish a federal MCL which will most likely be implemented close to the 1 ppb suggested by its draft risk assessment released in 2002.

On July 1, 2014, an MCL of 10 ppb for Hexavalent Chromium (“CrVI”) became effective as the only CrVI drinking water standard in the country. In 2015, SB385 was passed by the legislature to establish compliance timeframe and assist water purveyors to coming into compliance with the new regulation. However, in May 2017 the Superior Court of Sacramento County invalidated the MCL noting that the “state failed to properly consider the economic feasibility of complying with the MCL.” As a result, DDW has embarked on creating a new CrVI regulation that is expected to take between 18 and 24 months to complete.

On December 14, 2017, an MCL of 5 ppt for 1,2,3 TCP became effective. A Notification Level of 5 ppt existed previously and several wells in the Basin already have treatment in place for this contaminant. However, in 2018 the City of South Pasadena was forced to shut down one of their wells as a result of the new MCL. In response, the WQA Board authorized a transfer of funding to assist the City with the construction of their new treatment system.

WQA will continue to coordinate activities while reviewing the potential impact of regulatory standards on current and planned treatment projects throughout the Basin.

### **Goals for Basin Groundwater**

*The long-term goal of creating a sustainable and reliable source of water supply in the Basin cannot be met unless the Basin’s giant underground aquifers can be fully utilized. The contamination of many of these aquifers stymies opportunities for local drinking water and for recharge and storage.*

WQA’s goals were developed as a result of discussions with federal, state and local agencies, various stakeholders, and comments heard at public workshops and hearings. Each year, the goals are re-evaluated as part of the §406 Plan update and are described in the following paragraphs.

**Accelerate Removal of Contaminant Mass in the Basin** - Cleanup actions, implemented earlier than CERCLA provides, are needed to address the immediate threats to the local water supplies. This is accomplished by engaging the regulatory processes of other agencies of the State, and, wherever possible, “fast tracking” the activities, to reach the desired outcome sooner than would occur under the applicable regulatory process.



Previously, the WQA focused its accelerated removal activities on projects that could be implemented immediately to remove contaminant mass. In more recent years, the focus has changed due to the ever-growing list of threatened and impaired water supply wells. Faced with this widespread impact, water purveyors, individually and jointly with the WQA and/or other agencies, have undertaken the early implementation of several treatment facilities, thereby initiating clean up well ahead of the mandate from regulatory agencies.

With contamination rapidly migrating towards critical water supplies, the WQA now primarily focuses on projects to accelerate and advance cleanup activities while providing a clean water supply or protecting a nearby water source. More of these types of early actions are necessary to either:

- (1) remove contaminant mass to immediately prevent further degradation of downgradient aquifers,
- (2) contain the spread of contamination to protect critical water supplies,
- (3) restore critical water supplies, or
- (4) combine the aforementioned.

Although early actions are implemented before a regulatory mandate, there is always extensive coordination with USEPA and the LARWQCB to link the early action to the eventual mandate. By working closely with USEPA, the WQA and other local stakeholders can affect USEPA's decision-making and identify certain high priority cleanup projects that are consistent with USEPA's objectives.

Although USEPA cannot formally endorse and mandate cleanup until a rigorous process is completed, WQA can facilitate and assist in the implementation of the required action well before the mandate. Waiting on mandated actions has already had severe impacts in many parts of the Basin.

### **Prevent Migration of Contamination into Critical Groundwater Supplies**

- In many parts of the Basin, the contamination continues to spread towards, and threaten groundwater supply wells. Given that so many supply wells have already been shut down, the current situation presents a significant and ongoing threat to the Basin's water supply. Therefore, priority is given to implementing cleanup projects that will prevent the loss of water supplies.

In order to meet this goal, remediation measures must be implemented quickly to prevent contaminants from entering clean drinking water supplies. Further, these actions must also prevent contaminants from entering drinking water supplies with existing treatment not built or suited to treat the threatening contaminant(s). The goal to contain the contamination is



supported with actions that specifically address threats to groundwater pumping centers. Loss of major production centers will continue to impair the water supply unless these types of threats are immediately addressed in a cleanup plan. In furtherance of this goal WQA has allocated funding to assist purveyors in discrete well destruction activities to ensure that non-producing well do not act as a conduit for contamination migration.

The Main San Gabriel Basin Watermaster (“MSGBW”) has existing rules and regulations which govern the location and production of water wells for water quality purposes. The WQA works with the MSGBW and its existing rules and regulations to help contain and control the migration of contaminants within the Basin.

**Integrate Cleanup with Water Supply** - With so much of the local water supply impaired, it is essential that water treated from the cleanup projects be put to its highest and best use. Putting the treated water back into the supply system enhances the overall water supply situation in the Basin and helps many water purveyors mitigate the threat to their water supply. The desired objectives can be achieved by maximizing the use of existing facilities that have either been shut down or have been impaired. When new facilities are needed, these should be integrated into the supply of the appropriate water purveyor.

If cleanup facilities are built without the consideration of the local supply, then many water purveyors will be forced to build redundant treatment facilities on impaired wells or import increasingly scarce surface supplies from other areas. Currently, water purveyors only use surface water sources when they are readily available or when groundwater sources become impaired or unavailable; otherwise the predominant source of supply is from the local groundwater.

Although cleanup projects that put treated water to beneficial use will provide localized benefits, there are, of course, broad benefits that impact the regional water supply situation in California. Decreasing supplies from the Colorado River and the State Water Project, as a result of recent court decisions, make it critical to protect and develop groundwater resources so that both groundwater and surface waters of the State can be managed more effectively. Critical to this statewide need is the full utilization and restoration of the Basin groundwater.

**Minimize Economic Impact to the Public** - The issue of who pays for the cleanup is often the biggest obstacle in initiating the necessary cleanup programs. Although Potentially Responsible Parties (“PRPs”) may be held completely liable for the costs of a response action under the CERCLA mandate, actions normally do not occur until a lengthy process is completed. Equally detrimental is the fact that there is no assurance that



water purveyors will be able to fully recover and collect all costs associated with protecting and fulfilling immediate water supply concerns through CERCLA cost recovery actions. Therefore, many water purveyors may still need to fund, at least partially, the construction of treatment facilities or the acquisition of alternative water supplies even after some or all of the solvent PRPs have fulfilled their obligations resulting from a CERCLA cost recovery action.

Adding to the economic complexity of the situation is the fact that USEPA conducts its own detailed financial evaluation of PRPs and may settle for a reduced amount. And even then, many businesses cannot fully absorb the financial liability without hurting their businesses. In the meantime, the contamination continues to spread, impacting more water supply sources and, by extension, the basic reliability of plentiful water to support the economic basis and vitality of the Basin.

The WQA has pursued and continues to aggressively pursue sources of funding from responsible parties and the federal/state government. Despite these efforts, organizations like WQA and some of the local water purveyors have had to pool their own resources to immediately initiate many of the required response actions. This has required a financial commitment on behalf of the local public (at least initially). Early actions financed outside of the CERCLA process have been necessary to assure that many of the critical projects are implemented quickly. In addition, cleanup projects such as those prescribed by WQA are designed from a local perspective to address groundwater cleanup in conjunction with the water supply. However, costs borne by the public for this effort would have to be absorbed or recovered through litigation.

To accommodate potentially conflicting goals between accelerating cleanup and minimizing impact to water rate payers, WQA has identified high priority response actions that can be implemented ahead of USEPA's mandate using available financial resources, including federal reimbursement funding, and in some cases, financial participation from PRPs. If a required project lacks sufficient funding, a commitment by the affected water purveyors and/or WQA through its assessment, along with other potential local sources, will be required. Where WQA is required to use its own assessment to quickly assist in the development of a project, WQA always considers cost recovery actions to minimize costs borne by the public. To that end, WQA has already filed two costs recovery actions and may consider other cost recovery actions against those responsible entities that chose not to participate in the sponsored early remedial actions.

### **Coordination with Other Agencies**

The WQA was created to fulfill a need to coordinate response actions to the contamination in the Basin. The WQA continues to call for the involved



federal, state, and local agencies to unite with all stakeholders to work more effectively and efficiently. Stakeholders include but are not limited to:

<i>Federal</i>
<i>-U.S. Environmental Protection Agency -U.S. Bureau of Reclamation</i>
<i>State</i>
<i>-Department of Toxic Substances Control -State Water Resources Control Board -Los Angeles Regional Water Quality Control Board -SWRCB Division of Drinking Water</i>
<i>Local</i>
<i>-WQA and its three member water districts -Main San Gabriel Basin Watermaster -Cities affected by Basin groundwater contamination -San Gabriel Valley Water Association -Water purveyors in the Basin -Responsible Parties</i>

The WQA engages the existing rules, regulations and standards of these agencies, to coordinate and promote the reasonable and beneficial use of water produced and treated under mandate from the USEPA. WQA recognizes that a number of voluntary or consensual arrangements ultimately will be required to implement the objective to integrate water cleanup operations and water supply operations in the Basin. In addition to engaging existing regulatory authority held by other agencies, WQA encourages the needed voluntary or consensual arrangements through the exercise of authority under the WQA Act, including its authority to seek recovery of WQA's costs to respond to and cleanup groundwater contamination in the Basin.

Recent examples of agency coordination include:

- Spearheading the development of a new general discharge permit with the LARWQCB to assure continued operations of water treatment facilities.
- Overseeing the operation of remedy projects in the SEMOU through a cooperative agreement with USEPA
- Participation in BPOU and SEMOU Principals' meetings



- Facilitating permits with the LARWQCB and the Los Angeles County Flood Control District (“LACFCD”) to resolve discharge issues associated with cleanup activities that effect multiple operable units
- Participation in quarterly technical meetings sponsored by the USEPA to discuss remedial activities in the SEMOU, the El Monte Operable Unit (“EMOU”) and the Puente Valley Operable Unit (“PVOU”)
- Participation in public outreach meetings in the EMOU.
- Assisting the USEPA and DTSC in developing a long-term plan to guarantee the continued operation of the WNOU remedy and to ensure that the remedy is performing as required by the WNOU IROD.
- Facilitating the development of an alternative end use feasibility study for the PVOU Intermediate Zone remedy with the Puente Basin Water Agency, USEPA, MSGBW and Northrop.
- Stakeholder in the advisory group overseeing the transition of the drinking water program from the California Department of Public Health to the SWRCB, now known as the Division of Drinking Water
- Facilitating the development of a Policy 97-005 Guidance Manual to assist regulators and permit applicants who desire to utilize highly impaired water resources for potable water use.

WQA’s coordination efforts are broad-based, recognizing that migrating groundwater contamination threatens the drinking water supplies in adjacent communities. Recent examples include:

- Participating in the Leadership Committee for the Greater L.A. County Integrated Regional Water Management program. This program facilitates a new regional approach to watershed management by establishing collaborative efforts across the watersheds and functions that may have not been done otherwise.
- Participating in various committees of the Association of California Water Agencies
- Participating in meetings with the San Gabriel Valley Water Association
- Participating in the Coalition for Environmental Protection, Restoration & Development Conference

Recognizing that actions elsewhere in the state or country can positively or negatively affect its cleanup efforts, during 2007 the WQA joined in an amicus brief regarding *United States vs. Atlantic Research Corporation*. This case could have jeopardized funding under the CERCLA. The WQA undertook a leadership role with the amicus brief to try and preserve contribution claims against responsible parties for early projects. Fortunately, this case was decided in favor of the position supported by the amicus brief.



## **Public Outreach and Information**

The WQA has succeeded over a number of years in building public support for cleaning up contaminated groundwater in the Basin. The public information program seeks to foster understanding of the WQA's mission, projects and accomplishments and plans, and to encourage public participation in the cleanup process. The WQA's ongoing efforts are undertaken to ensure that all stakeholders, including the general public, understand projects that involve the WQA and have ample opportunity to contribute ideas and opinions.

*Because the Basin is a Superfund site, the processes used must always meet requirements under the National Contingency Plan ("NCP"), including its public participation component. In addition, whenever needed or requested, WQA works closely with water purveyors to help them meet the extensive public outreach requirements set forth in the DDW Process Memo 97-005. However, absent regulatory requirements, the WQA continues to be committed to informing the public of all of its activities.*

The program employs a variety of methods to reach everyone from specialized audiences, such as the local water community and legislators in Sacramento and Washington, to the general public in the Basin and beyond.

**Website** - The WQA web site is regularly updated and provides instant access to news releases, publications, agendas, minutes of meetings, and reports on projects. In addition to WQA-specific issues, the web site links to local, state and federal water agencies and organizations. It also gives access to the names of officials who can be contacted for further information. A new and improved website was launched in June, 2007. In March of 2008, WQA launched an e-mail notification page which lets subscribers know when new information is posted to the website, including Board and committee agendas. In June of 2011, WQA redesigned its webpage once again and expanded its role in social media outlets by creating an active Facebook page with additional updates through Twitter and YouTube. Furthermore, the website was redesigned again in 2016. This latest update included improvements to the subscription system and site optimization for mobile users.

**Communication with Government Officials** - The WQA keeps the local offices of federal and state legislators informed of any developments and the progress of cleanup issues in the Basin through office visits, tours of treatment facilities and invitations to participate in the WQA legislative committee. The WQA hosts the Legislative Water Forum Luncheon, inviting elected officials to update the Basin water community on state legislation. Speakers in the series to date have included United States Senator Dianne Feinstein, former United State Senator



Barbara Boxer, former Congressman David Dreier, former Congresswoman and former U.S. Secretary of Labor Hilda Solis (now L.A. County Supervisor), Congresswoman Lucille Roybal-Allard, former State Attorney and State Treasurer General Bill Lockyer, former California Secretary of State Bruce McPherson (now Santa Cruz County Supervisor) and former California Board of Equalization Member Judy Chu (now Congresswoman).

In 2006, the WQA developed a DVD presentation that features Senator Dianne Feinstein and former Congressman David Dreier. The DVD has been used in Sacramento and Washington, D.C to educate legislators, bureaucrats and other stakeholders about the strategic importance of the Basin. Senator Feinstein and Congressman Dreier implore the state and the state legislators to become full participants in the cleanup of the Basin.

The WQA continues to conduct briefings and tours with local, state and federal officeholders. Past briefings and/or tours were conducted for Congresswoman Grace Napolitano, former California Public Utilities Commission (“CPUC”) President Michael Peevey, , former CPUC Commissioners Carla Peterman, Catherine Sandoval and Diane Grunick, former State Water Resources Control Board Chair Felicia Marcus, former SWRCB member Francis Spivey-Weber, former State Senator Ed Hernandez, Assemblymembers Anthony Rendon, Ed Chau and Ian Calderon, and former Assemblymembers Mike Eng and Curt Hagman. Also included were several legislative staff as well as meetings with several members of the Administration, including representatives of the California Environmental Protection Agency and the Governor’s Office.

More recent tours have included Congressman Gil Cisneros, State Senators Susan Rubio and Bob Archuleta, and Assemblymember Blanca Rubio.

**Media communications** - The public information program uses a variety of written publications to carry its message. These may include annual reports, brochures, bulletins for specific projects and periodic news inserts in the *Los Angeles Times*, *San Gabriel Valley Tribune*, *Pasadena Star News* and the *Whittier Daily News*. The inserts are distributed throughout the Basin, through home and business delivery and general sales.

The WQA works with major news outlets, such as the Los Angeles News Group, *Los Angeles Times*, and foreign language publications, such as *La Opinion* and the *Chinese Daily News*. It also provides information to other local newspapers, city and chambers of commerce newsletters and publications directed at water and environmental interests, the business press and the electronic media. It distributes press releases, contacts and meets with reporters and editors to inform them of activities, responds to press inquiries and takes other steps to encourage media interest.



In 2007, KCET's *Life & Times* program produced a segment on the Basin. The segment focused on the status of the cleanup, the impact of the contamination on the City of Monterey Park's ("CMP's") water supply, the potential impact on ratepayers, and the need for more state involvement. A DVD of the segment is also used to educate local stakeholders on the cleanup of the Basin.

In 2013, WQA began publishing an annual report. The full color annual publication also serves as an executive summary of the §406 Plan.

Additionally, in 2013 the WQA's Executive Director was featured in one part of the 4-part video series on water by former State Senator Ed Hernandez. The "Water Wise" series was aired on local Charter Communications channels throughout California.

**WQA Board** - The WQA Board, through a variety of means, including public meetings and workshops, also interacts with the public to provide information and to solicit input.

In addition to regular Board meetings, Board members participate in several committees, including the Administrative/Finance Committee, the Engineering Committee and the Legislative/Public Information Committee.

As an example of the Board's outreach activities, in May 2011, the WQA Board held a one-day conference to gather input on WQA's performance. In addition to staff presentations, several stakeholders gave presentations to illustrate their perspectives on how to improve WQA. This provided valuable input for the Board and staff to consider.

In 2012, the WQA became a founding partner of the San Gabriel Valley Water Forum. Along with the Upper San Gabriel Valley Municipal Water District, the San Gabriel Valley Municipal Water District and the Three Valleys Municipal Water District, the WQA provides financial and organizational support for the event. This semi-annual one-day forum offers information for a broad public audience that includes students, educators, public officials and water professionals. The topics covered include all facets of water history, water policy, water rights, and groundwater cleanup in the San Gabriel Valley.

In June of 2014, WQA participated in the mini-water forum held in the city of Monterey Park. The focus of the mini-forum was to reach out to the Asian business community to educate them of water issues of the San Gabriel Valley.

## **Funding From Potentially Responsible Parties and Other Sources**

The WQA is committed to accelerating cleanup, integrating cleanup with water supply, preventing migration, and minimizing the financial impact to the public



through its annual assessment. In order to meet these goals, adequate funds, primarily from PRPs, state and/or federal programs, are necessary for implementation. While the WQA recognizes that PRPs must fulfill their CERCLA liabilities, it is often a very slow process - a process that jeopardizes the groundwater and increases the cost of implementing projects.

*Although USEPA has urged PRPs to consider affected water supplies and to coordinate their cleanup efforts with the water purveyors, USEPA enforcement under the CERCLA process does not allow USEPA to require such considerations and efforts. It is for these reasons that WQA aggressively seeks funds from PRPs before, during and after project implementation, either voluntarily, through mandated CERCLA actions or through litigation measures. If funds cannot be generated from PRPs to begin an identified early action project, WQA will work with individual purveyors, the MSGBW and/or other local agencies to develop funding for the project using federal and/or state funds, WQA member agency funds, including individual purveyors, and only if necessary, its own assessment.*

A summary of funding sources and amounts is included as Table 1. In addition, Table 1 shows an estimated funding gap which is updated semi-annually to reflect changing conditions. The current funding gap is ~~\$518~~\$500 million which has ~~grown \$49~~declined \$18 million over the last reporting period. This change reflects updated information received from each project.

**Potentially Responsible Parties** - The WQA is committed to securing PRP funding for any given project. In the absence of sufficient PRP funds, WQA and others may combine resources to fund a project. In this event, WQA may choose to initiate cost recovery actions, as it did previously in the BPOU, in which WQA brought two separate legal actions against PRPs to recover costs incurred from the La Puente Valley County Water District ("LPVCWD") Treatment Plant and the Big Dalton Well Treatment Facility.

In 2002, WQA along with three affected purveyors ("water entities") jointly settled with 13 of the more than 60 PRPs in the SEMOU. Thereafter, the water entities initiated litigation against the remaining PRPs in a concerted effort to recover escalating costs and ensuring funds for future operations of the cleanup projects built with WQA participation.

In November 2007, the USEPA filed two Consent Decrees ("CDs"), for a total of \$12.5 million as a result of settlements between WQA, affected purveyors, several PRPs, USEPA and DTSC. The added funds helped to continue operating about eight water purification facilities in the SEMOU. In July 2008, WQA completed USEPA's grant application to gain access to the funds recovered in one of the CDs. The second CD was appealed by recalcitrant PRPs not included in the CD. On June 2, 2010, the Ninth Circuit Court of



Appeals remanded the case back to the district court for further hearings. As a result of the delays associated with the challenges to the CDs the USEPA obtained \$2.2 million in gap funding from its Superfund program in July 2010 to help offset a portion of the water entity Interim Record Of Decision (IROD) costs. The second CD was ultimately entered in 2011 upon conclusion of the appeals process.

Additionally, while the second CD was being appealed negotiations continued with the remaining PRPs resulting in the subsequent approval of seven additional CDs. Settlements to date from all nine entered CDs total \$35.3 million.

**Federal Government** - As a result of ongoing efforts by WQA and other local agencies, two federal programs, the San Gabriel Basin Restoration Fund and the San Gabriel Basin Demonstration Project under Title XVI, have been authorized by Congress specifically for the Basin. Both programs are administered through the USBR and are used, to the maximum extent possible, to accelerate cleanup and to provide incentives for PRPs to address affected water suppliers, while implementing cleanup actions in the Basin under CERCLA.

**San Gabriel Basin Restoration Fund** - In December of 2000, through the leadership of Congressman David Dreier, Congress authorized the San Gabriel Basin Restoration Fund ("Restoration Fund"). The authorization provides \$85 million for groundwater cleanup, \$10 million for the CBMWD to clean up the Central Basin and \$75 million for the WQA to clean up the Basin. This program requires a 35% non-federal match to obtain a maximum reimbursement of 65% from federal sources. These funds are available for design, construction and operation for up to 10 years following construction. To date, the CBMWD has received its full \$10 million appropriation and WQA has received \$70.5 million of its \$75 million appropriation.

In recognition of the cleanup progress, and the need for additional funding to meet an estimated \$570 million funding gap, Congressman Dreier along with his colleagues in the San Gabriel Congressional Delegation introduced H.R. 123 in January 2007 to raise the authorization on the Restoration Fund by \$50 million. The additional authorization would increase the total cap to \$135 million.

H.R. 123 passed the House on December 12, 2007 and was referred for approval to the United States Senate. On June 16, 2008, H.R. 123 was placed on the Senate Legislative Calendar. Unfortunately, by the close of 2008, H.R. 123 was not heard or voted on in the United States Senate.

In January 2009, Congressman Dreier reintroduced the H.R. 123 language as H.R. 102 in the new Congressional session. In addition, Senator Harry Reid introduced S. 22 in the U.S. Senate and it also included the language of H.R.



102. S. 22 passed the U.S. Senate and awaited passage in the U.S. House of Representatives.

However, in March 2009, Congress passed the large Omnibus Land Bill H.R. 146. H.R. 146 included the language from Congressman Dreier's H.R. 102 and effectively raised the total cap of the Restoration Fund to \$146.2 million. This total includes an additional \$50 million for the San Gabriel Basin and an additional \$11.2 million for the Central Basin over the original \$85 million authorization.

In 2011, Congresswoman Judy Chu introduced H.R. 3132 to provide an additional five years that projects can receive operational funding from the Restoration Fund. This bill was reintroduced in the new 2013 Congress, but did not receive enough votes for passage.

In March 2014, WQA received a request from Senator Feinstein's office to submit an appropriations request for fiscal year 2015 for \$10 million of Restoration Funds. This was significant because it is the first time in 5 years that WQA hashad received such a request. Unfortunately, due to the continuing earmark stalemate in Congress, the appropriation request failed to gain full approval. Nevertheless, WQA continually strives to secure federal appropriations at every opportunity.

**Title XVI** - In 1992, Congress authorized the San Gabriel Basin Demonstration Project to implement conjunctive use projects in the Basin. By implementing cleanup projects that provide a reliable source of water and reduce the need for outside sources of water, many of the Basin's cleanup projects are eligible for this program. This program requires a 75% non-federal match to reimburse the project up to a maximum of 25% from federal sources. Funds from this program may be used for design and construction only.

In 2004, Congresswoman Grace Napolitano authored H.R. 1284 which was passed and signed into law. The legislation raised the cap on the Title XVI program by \$6.5 million. The total authorization for the Title XVI program is now \$44.5 million.

**New Water Supply Coalition/Tax Credit Bond Legislation** - The WQA is a member of the New Water Supply Coalition ("Coalition"). The Coalition is composed of water districts located from California to Florida. The Coalition seeks to fund water infrastructure projects throughout the United States by using Tax Credit Bonds. In 2007, the Coalition was successful in having Congressman Xavier Becerra and Congressman Jon Porter introduce H.R. 3452, the Clean Renewable Water Supply Bond Act ("CREWS Bonds"). CREWS Bonds would provide a potential source of funding for the WQA's cleanup projects. The CREWS Bond program would allow the WQA to float Tax Credit Bonds that would provide the holder of the bond with a tax credit to offset



their tax liability. Unfortunately, the legislation was not enacted prior to the end of the 110th Congress.

In 2009, Representatives Xavier Becerra and Ginny Brown-Waite reintroduced the Clean Renewable Water Supply Bond Act, H.R. 4132 along with original cosponsors Representatives Lucille Roybal-Allard (D-CA), Adam Putnam (R-FL), and Laura Richardson (D-CA). The Coalition was ultimately able to secure 22 co-sponsors. A companion bill, S. 1371, was also introduced in the Senate by Bill Nelson (D-FL). Unfortunately, neither bill was enacted by the 111<sup>th</sup> Congress and no further action is anticipated on this program.

**State Government** - The WQA has been working tirelessly to educate State agencies, the Administration, and Legislators and their staff on the merits of financial participation in the near term and the potential impacts of lack of participation on State and local agencies in the future. The WQA continues to emphasize that stemming the flow and mitigating the spread of contamination is more cost effective and reduces the impact on both the State and local ratepayers.

As described in the previous federal funding sections regarding the Restoration Fund and Title XVI funds, a non-federal match is required in order to release the federal funds. While WQA will continue to work with PRPs to help meet that match, additional funds are still needed to release available federal dollars.

The WQA has actively worked with the current Administration and other stakeholders in Sacramento to identify State-partnership funding opportunities. The WQA regularly updates Cal EPA, the DDW, the Governor's Office, as well as incoming members of the Legislature, on the funding needs and challenges associated with cleanup of the San Gabriel Basin.

AB 2823, introduced in 2008 by Assemblymember Eng, proposed establishing a San Gabriel Basin State Restoration Fund, similar to the Federal San Gabriel Restoration Fund. It passed the Assembly on a 73/2 vote and unanimously passed the Senate Environmental Quality Committee. However, it was held in the Senate Appropriations Committee due to concerns about cost pressures on the State.

In 2013 WQA sponsored three bills in the state legislature. AB1043 was introduced by Assemblymember Ed Chau and would modify the language in Prop 84 so that agencies receiving Prop 84 funding would be allowed to keep settlement funds received from polluters for additional cleanup. AB687 was introduced by Assemblymember Roger Hernandez and would allow groundwater cleanup projects to receive preferred energy pricing through the state's direct access energy program. Finally, SB429 was introduced by Senator Ed Hernandez to extend the sunset date of the WQA to June 30, 2030. SB429 was signed into law by the Governor on September 6, 2013.



**Clean Up and Abatement Account Funding from the SWRCB - In**

September, 2007, the SWRCB awarded a grant of \$1.42 million to the WQA from its Clean Up and Abatement Account (CAA) to provide funding for the removal of 1,4-dioxane and other VOCs at WQA's Whitmore Street Groundwater Remediation Facility ("WSGRF"). Under the USEPA Record of Decision, no PRPs are liable for the cleanup costs of 1,4-dioxane. The funding covered the costs of construction and five years of operation for six extraction wells that remove contaminants and protect many down gradient drinking water wells. WQA received the fully executed and signed grant agreement from the SWRCB on June 30, 2008. The WSGRF was completed and dedicated in 2008. (See Appendix A - SEMOU Shallow Zone Extraction for the status of this project.)

In December 2012, the SWRCB granted WQA an additional \$950,646 in CAA funding to operate the WSGRF through September 2018. WQA has continued funding the project temporarily until an alternative funding source can be obtained. WQA will continue to work with the USEPA and DTSC to find alternative sources of funding for this project.

**State Bond Funds** - In 2000, California voters passed Proposition 13, which authorized the sale of \$1.9 billion for the Safe Drinking Water, Clean Water, Watershed Protection, and Flood Protection Bond Act. This bond included an authorization of \$7 million in funding assistance for groundwater cleanup programs. Although the original intent of the language was to provide grant funds, the DTSC interpreted the funding language to mean "loans" and established procedures in 2001 for low interest 20-year loans. WQA applied for the full \$7 million on behalf of the Valley County Water District ("VCWD") Subarea 1 ("SA1") project and was awarded the entire amount.

In November, 2002, California voters passed a \$3.44 billion bond, the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002, also known as Proposition 50. Very little of the funds in this bond are available for groundwater cleanup and protection activities and those funds that are available are limited to construction costs only. The WQA partnered with the San Gabriel Valley Water Company ("SGVWC") and submitted a grant request for Proposition 50 funding to DDW, but the project was not ranked high enough to receive funding.

The WQA is actively engaged in the Integrated Regional Water Management Plan ("IRWMP") for the San Gabriel Basin and the Greater Los Angeles area. Funding to implement projects within IRWMPs may be forthcoming in future years from Proposition 84, the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006, which provides \$5.3 billion for water, parks, habitat and natural resources projects and programs.



Proposition 84 also provides \$60 million to the DDW for groundwater cleanup projects that provide drinking water. But the language in the initiative limited these funds to capital costs only, excluding treatment and remediation costs which are the actual costs of clean up. The costs to extract the contaminated water and treat it comprise the bulk of the current funding gap in the Basin of approximately \$469 million.

In 2008, the Proposition 84 appropriations bill SB 2XX was passed by the Legislature and signed by the Governor. It included language appropriating \$10 million for groundwater contamination projects which meet certain criteria, two of which include being located at Superfund sites and being able to leverage other funds. In October 2009, the WQA submitted Notices of Intent to apply for five cleanup projects in the Basin per the implementation guidelines released by DDW in the prior weeks. Unfortunately, the expedited grant schedule did not allow enough time for the project proponents to complete CEQA before the final application was due to DDW on January 7, 2010. Therefore, the projects were not considered for this round funding. However, in 2011 DDW solicited applications for a second round of funding and WQA submitted six projects. On April 20, 2012 DDW announced awards for five of the projects totaling approximately \$10 million.

In November 2009, the State Legislature passed several water bills including SB 7X2, an \$11.1 billion water bond, titled The Safe, Clean and Reliable Drinking water Supply Act of 2010, which was subsequently signed by Governor Schwarzenegger, for inclusion on the November, 2010 ballot for voter consideration. However, in August 2010, the Legislature passed and the Governor signed a bill delaying the bond measure to the November, 2012 ballot. And the measure was delayed once again in 2012 when the Legislature and Governor approved moving it to November 2014.

Through the united efforts of the San Gabriel Valley State Legislative Caucus SB 7X2 includes language that is favorable to the WQA's efforts to secure future funding for projects in the Basin. However, due to drafting errors, SB 7X2 again included language that limited the funds to capital projects. The Legislature's leadership assured the Caucus of their support to remedy the deficiencies.

To that end, AB 153 was introduced by the leadership of the San Gabriel Valley Legislative Caucus (Hernandez, Eng, and Huff), to correct the drafting errors in the water bond. The section of the water bond that allocates \$100 million for projects to address groundwater contamination would cover the costs of projects, programs, and activities necessary to clean up the ground water. This language will also permit the bond funds to be used for actual treatment and remediation. AB 153 required a two thirds vote of both the Senate and the Assembly to pass (any amendment to this water bond requires a two thirds



vote). On August 31, 2010, the bill passed its final vote and was sent to Governor Schwarzenegger for signature.

In 2014 the public was finally able to vote on and approve the water bond as Proposition 1, a substantially smaller \$7.525 billion water bond that had undergone significant modification by the legislature once again. Proposition 1 makes \$720 million available for grants and loans for projects to prevent or clean up the contamination of groundwater that serves or has served as a drinking water source and requires a 50% match. In addition, the Proposition 1 language specifically makes \$80 million available for grants for “treatment and remediation activities” that prevent or reduce the contamination of groundwater that serves as a source of drinking water.

However, despite support from the Assembly Speaker’s Office, the SWRCB Department of Finance, the Office of Administrative Law and the San Gabriel Valley Legislative Caucus, the State Attorney General’s Office offered an unpublished opinion via the State Treasurer’s Office that the \$80M in Proposition 1 cannot be used for “treatment and remediation activities” as the WQA, the Legislature and the voters intended because it may conflict with state bond law.

In 2018, voters passed Proposition 68 – the Parks, Environment and Water Bond. This bond requires a 50% match and contains language to effectively clarify and authorize the use of \$80M in Prop 1 funding for Treatment and Remediation activities.

The WQA will continue to seek to ensure that any proposed State water bonds include significant funding and appropriate language for groundwater remediation projects. Working with other water entities in the Basin, the WQA will lead efforts to formulate a comprehensive approach to water infrastructure in the Basin. The WQA will look to any future proposed bond packages for much needed funding for cleanup projects in the Basin.

**Water Quality Authority** - WQA imposes an annual pumping rights assessment for capital and operational costs of ~~\$10.00~~\$12.00 per acre-foot which generates ~~\$1.98~~\$2.38 million annually. These funds are utilized only when available federal and/or state funding is insufficient, in addition to PRP funds. If PRPs do not voluntarily provide funds to a project, then the WQA, on a project-by-project basis, considers the use of assessment funds to underwrite the project costs with or without other local dollars. However, the WQA is committed to recovering its costs from non-participating PRPs at a later date so that the cost to the local consumer will ultimately be minimized.



### **Water Purveyors/Cities/Member Agencies/Other Local Water Agencies-**

The WQA requires impacted water purveyors to fund or secure funds other than WQA's assessment representing a minimum of 25% of capital costs. In the event projects cannot be otherwise fully funded using any or all of the above funding sources, WQA will work with an affected city, member water agency and/or other local water agencies to develop potential funding sources. The WQA will pursue the recovery of these funds on behalf of the participating agency, if necessary.

### **Status of Non-Operable Unit Specific Plans**

Within the Basin the majority of contamination is located within the boundaries of the six identified operable units. However isolated pockets of contamination exist throughout the Basin. Inside the known operable units, USEPA has established a methodical process that includes the review of the extent of contamination, development of cleanup options and selection of the most appropriate cleanup plan. Contamination outside the known operable units has no such process for cleanup activities to take place. Affected purveyors must assess the need for treatment or try to secure other sources of water. WQA endorses the construction of treatment facilities that are consistent with WQA's Administrative Procedure No. 38, discussed later in this report, and will assist in any means possible.

Currently there are four treatment facilities operating outside the boundaries of known operable units. Three of the treatment facilities are currently treating VOC's by carbon adsorption technology:

- City of Arcadia's Longden Wells treatment facility began operation in January of 1985. It has treated approximately ~~70,496.76~~XXX acre-feet and removed approximately ~~744~~XXX pounds of contamination as of ~~December 31~~June 30, 20182019. There is no current estimate on how long the treatment facility will need to operate.
- City of Monrovia's Myrtle Well field treatment facility began operation in March of 1996. It has treated approximately ~~69,549.38~~XXX acre-feet and removed approximately ~~4,187.8~~XXX pounds of contamination as of ~~December 31~~June 30, 20182019. There is no current estimate on how long the treatment facility will need to operate.
- San Gabriel Valley Water Company's Well 11B treatment facility began operation March of 1991. It has treated approximately ~~45,124.18~~XXX acre-feet and removed approximately ~~320.4~~XXX pounds of contamination as of ~~December 31~~June 30, 20182019. There is no current estimate on how long the treatment facility will need to operate.



The remaining treatment project utilizes ion exchange technology for the removal of a combination of nitrates and perchlorate:

- Golden State Water Company's Highway treatment facility began operation in May of 2005. It has treated approximately ~~19,550.21XXX~~ acre-feet and removed approximately ~~366.5XXX~~ pounds of contamination as of ~~December 31~~ June 30, 2018~~2019~~. There is no current estimate on how long the treatment facility will need to operate.

There are numerous wells that are vulnerable to contamination in the Basin with the bulk located within known operable units. Some of the water purveyors that may need treatment in the future and are located outside of known operable units include but not limited to City of Arcadia, City of Glendora, Valencia Heights Water Company and the City of Whittier.

### **Operable Unit Specific Plans**

After more than 20 years of studies and investigations, USEPA's CERCLA activities have progressed to a point where the configuration of the required remedies, in conjunction with local needs, can be determined in most areas. In general, these remedies include multiple groundwater extraction and treatment facilities designed to remove and contain the spread of contamination.

Appendix A presents the WQA's specific plans for the individual OUs including key components and OU specific issues. Table 1 identifies the project costs of each OU within the Basin boundaries.

### **Projected activities of the next reporting period**

During the next reporting period WQA will continue to play an integral role in protecting the groundwater supplies of the Basin by actively participating in all operable unit remedies to ensure that the necessary facilities are constructed and treatment and remediation continues to occur in a manner that provides the greatest benefit to the residents of the Basin.

**BPOU** - Additional modifications necessary to operate the BPOU remedy projects in the most cost effective way possible will continue. Once all modifications are complete the BPOU projects combine to provide up to 25,900 gpm of potable supply. WQA will continue to participate in decisions that affect project treatment and remediation activities as a member of the project committee.

**SEMOU** – The WQA received a Proposition 1 planning grant from the SWRCB to conduct additional site investigation activities upgradient of the WSGRF. The activities include several hydropunch locations along with cone penetration testing to further delineate plume boundaries while providing invaluable aquifer lithology. It is anticipated that the additional site investigation work will lead to an implementation grant that will ensure the optimization of the WSGRF. In addition, WQA will be applying for additional Prop 1 funds to assist the



LARWQCB with contaminant source investigation activities at various locations within the SEMOU.

**EMOU** - WQA will continue to participate in the remedial activities including but not limited to remedial design, project oversight and federal reimbursement activities associated with the EMOU. In 2012, the westside workparty finished construction of the shallow zone remedy and will continue operation as required by the USEPA. In late 2015, the eastside workparty's shallow zone remedy became operational. In 2019, the city of El Monte received its -and a 97-005 amended water supply permit for the operation of eastside deep zone remedy. application was submitted to DDW on July 21, 2016. It is anticipated that DDW will approve the permit during the next reporting period. In addition, WQA will encourage that the end use of the treated water be put for beneficial use whenever possible.

**PVOU** - WQA will continue to participate in the remedial activities, including but not limited to, remedial design and project oversight associated with the PVOU remedy. In early 2019, It is anticipated that the PVOU IZ Remedy will begin began construction of the centralized treatment facility. Construction activities will continue throughout the next reporting period. In addition, it is anticipated that the shallow zone north remedy will ramp up its remedial design activities. WQA will continue to assist the workparties in developing an enhanced alternative end use discharge plan that will have a regional benefit to the San Gabriel Valley water supply.

**Area 3** - It is anticipated that the City of Alhambra will continue to operate its Phase I and Phase II treatment facilities, and the the City of South Pasadena will continue to operate its 1,2,3-TCP treatment facility at their Wilson wellsite.- In addition, WQA will assist USEPA and LARWQCB whenever possible to further characterize contamination within the Area 3 boundaries.

**WNOU** – WQA will continue to assist the DTSC in its oversight of the WNOU remedy to guarantee the continued operation and to ensure that the remedy is performing as required by the WNOU IROD.

**Non-Operable Unit Projects** – All non-operable unit projects mentioned above are anticipated to remain in service and continue to mitigate contaminate migration.



## Priorities for Project Funding

*WQA utilizes a number of tools to prioritize projects for funding. To be eligible for funding consideration, proposed projects must meet all of the following conditions:*

- *Project must be located within the jurisdictional boundaries of the WQA*
- *Applicant(s) must demonstrate, through WQA's Procedure No. 38 process, (described in the following section) that the project in the area of the proposed groundwater remediation project removes contamination, and protects and/or prevents groundwater contamination from spreading into clean areas*
- *Applicant(s) must demonstrate that the project water will be put to beneficial use, with priority given to those projects which include an affected water purveyor and provides potable water, if applicable*
- *Project must conform and further the objectives of the WQA §406 Plan or the intent thereof*
- *Project must be consistent with the legislative intent of the statute(s) authorizing or appropriating the public funds used for project funding reimbursement*
- *Project cannot have been used in calculating the 35% credit provision in the Restoration Funds*
- *Project cannot have begun operating prior to July 1, 1999 (this provision may be waived by the WQA Board)*
- *Start of project construction for a new project must be anticipated within 18 months of executed agreement between WQA and applicant(s)*
- *Applicant(s) must provide a plan that commits 100% of the required funds in WQA's account in advance of each payment owed on the project and prior to each reimbursement request.*

**San Gabriel Basin WQA Policy and Procedures Manual** - Administrative Procedure 38 - WQA evaluates projects submitted to determine whether the projects are "necessary" and "consistent" with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). For cost recovery purposes, remediation projects are considered "necessary" if there is evidence of a release



of hazardous substances, the project is designed to mitigate the impact of such releases and the project is needed to meet regulatory requirements for remediation and/or water supply. The determination of necessity shall be based on data of sufficient quality and quantity to satisfy the WQA. Remediation projects are considered “consistent” with the NCP if the remediation project is in substantial compliance with the applicable requirements of the NCP and results in a CERCLA-quality clean-up. Specific potentially applicable NCP requirements are addressed below.

Criteria to which a proposed project shall be measured, but not required, are as follows:

- Project conforms and furthers the objectives of WQA’s §406 Plan or the intent thereof
- Ranking on priority list if multiple requests are competing for available funds
- Project is “necessary” and “consistent” with the NCP
- Requesting party to pay no less than 25% of capital costs
- Funding for operation and maintenance secured from funds other than WQA assessment
- Implementation of construction anticipated within one year of executed agreement

Projects are scored according to the questions and corresponding scores listed in Table 2. Once scored, the projects are then ranked according to the criteria in Table 3. The higher scores represent a higher ranked priority position within each category for available funding.

### **Contractor Selection**

Competitive bids are typically used for contractor selection when project funding sources include WQA assessments, local water funds, or funding from the State or Federal government. Projects with federal dollars follow the federal contracting guidelines regarding competitive bids. Sole source awards may occur, consistent with either federal guidelines, or the criteria established by the individual water purveyor.

### **Criteria used to quantitatively evaluate projects for effectiveness**

During the initial stages of a potential treatment project extensive studies are conducted to ensure the project is located in the appropriate area to achieve:



- *an effective contaminant capture and containment zone*
- *the halting of contamination migration into adjacent clean water supplies*
- *meeting the water supply objectives of the affected water purveyor*

WQA plays a key role during this evaluation process to ensure that each project provides the greatest protection to the water supply of the residents of the Basin while minimizing any economic impact. WQA has developed the following criteria to evaluate projects for effectiveness:

- *How much contaminant mass is removed from the Basin?*
- *How much of the treated water is used for beneficial purposes?*
- *How many downgradient wells are being protected?*
- *Does the project integrate cleanup with water supply?*

WQA also considers that overall impact of the combined cleanup projects. Figure 9 demonstrates the number of treatment plants coming online has grown steadily since WQA's inception in 1993. The total pounds of contaminants removed and acre-feet of water treated are shown in Figure 10.



## **APPENDIX A**



## **Appendix A – Operable Unit Area Plans**

### **BALDWIN PARK OPERABLE UNIT**

Of the five areas of contamination in the Basin, the BPOU is considered the most significant because of the geographic size and degree of contamination. For this reason USEPA prioritized this area for investigation back in the late 1980's. By 1994, there was a general consensus on the technical approach including a financial arrangement whereby sales from the water produced by the treatment plant would be used to offset the costs of the project. However, just as designs were being prepared, the discovery of new contaminants prompted a complete reevaluation of cleanup plans.

In 1997, perchlorate, a contaminant derived from solid rocket fuel, was discovered in many of the active production wells within the OU. This discovery had widespread impacts, primarily because traditional treatment methods were ineffective in removing perchlorate from the groundwater. The new discovery not only disrupted the design of the CERCLA remedy, but also shut down many of the existing treatment plants that had been operating for water supply purposes. In one case, a water purveyor's (LPVCWD) complete water supply was shut down due to excessive concentrations of perchlorate that could not be removed by treatment facilities currently in place. This forced the water purveyor to buy alternative groundwater supply from neighboring water purveyors and supplemental imported water costing five times the cost of groundwater before the discovery of perchlorate.

Based on the discovery of perchlorate, USEPA chose to update its ROD and issue a plan update. This update was similar to the original ROD except that the containment requirement in the southern portion of the OU unit was shifted further downgradient to address the new contaminants and the larger VOC plume resulting from several years of movement since the original ROD was issued. USEPA's plan required that about 22,000 gpm of contaminated groundwater be extracted and treated. The update did not, however, specify how the water was to be used.

In 1998, although USEPA had recently accepted a "good faith offer" from a portion of the BPOU PRPs to conduct the required cleanup, the specifics of the offer suggested that the PRPs intended to construct cleanup facilities without addressing the local water supply needs. The promise of the good faith offer was to extract water from the specified locations, treat the water at centralized facilities using emerging (unapproved) treatment technology and then discharge the water into nearby surface water channels. This approach was met with strong resistance that could have resulted in further delays and continuance of the existing water supply crisis. In addition, USEPA's approach focused on overall containment of the plume and did not include projects that were outside



of USEPA's primary objectives that would have beneficial effects on both cleanup and water supply.

In response to this situation, WQA prescribes a cleanup plan developed by the MSGBW (Figure 2) that integrates cleanup and water supply objectives. The first phase of this plan focused on the southern portion of the plume where the priority is highest to contain the plume, protect critical water supplies and restore critical water supplies.

In 1999, due to the critical need for immediate action, WQA, MSGBW and the Upper San Gabriel Valley Municipal Water District ("USGVMWD") joined resources and began implementation of the plan by constructing the first facility to treat both perchlorate and NDMA for drinking water at the LPVCWD well site. Following the success of the LPVCWD project, WQA prescribed additional early actions that build on the LPVCWD project development model.

In 2002, eight of the 20 BPOU PRPs entered into a comprehensive project agreement with WQA, MSGBW and local purveyors to fund the prescribed remedy described in this section.

To achieve rapid implementation in the BPOU, only treatment processes that are approved as Best Available Treatment Technologies ("BATT") by DDW shall be used to meet drinking water requirements. This requirement is necessary to assure that lengthy approval processes normally associated with emerging technologies are eliminated. Use of BATTs will be necessary to accelerate removal of contaminant mass from the Basin and to restore impacted potable water supplies. However, wherever practical, other technologies may be considered if significant and exceptional benefits are shown to outweigh the need for urgency.

In addition, as new technologies become available, the WQA prescribes that cost effective studies and pilot programs are pursued in order to maximize the potential savings in cleanup costs over the life of the projects. For example, multiple projects are using an ion exchange technology that may be outdated and costly. New resin technology has been introduced that could provide alternatives to the existing technology, and studies have been undertaken to assess the benefits of switching over if the lifetime benefits appear to be substantial.

In the cases where existing technology remains in place, careful optimization will be performed regularly on the equipment in order to achieve the best effective operation and the lowest operating cost possible.

**Southern Remedy** - In conjunction with the LPVCWD treatment project constructed in 2000, a new treatment facility located at the SGVWC Plant B6 treatment facility near the southern extension of the plume was prescribed for



immediate implementation. The project also included the construction of four new extraction wells (B25A, B25B, B26A and B26B) and transmission pipelines connecting the extraction wells to the Plant B6 treatment facility.

The project finished construction in 2004 and received its 97-005 amended water supply permit from the DDW in June 2005. The water extracted from this facility is needed by SGVWC to replace production capacity lost when contamination forced the closure of the then operating water treatment facilities that lacked the ability to remove the newly discovered contaminants, perchlorate and NDMA. The project has the ancillary benefit of protecting downgradient water supply wells by halting the southeastern migration of contaminant mass.

In 2009, efficiency studies have led to changing out the existing ion exchange treatment technologies at LPVCWD's treatment facility and SGVWC's Plant B6 treatment facility from a regenerable resin technology to a more efficient single-pass resin technology. As a result of changing from a regenerable resin ion exchange technology to a single-pass technology SGVWC will lose the ancillary benefit of some nominal nitrate treatment. Therefore, DDW required SGVWC to construct additional nitrate treatment at its Plant B6 to ensure continued operation of the treatment facility. The new nitrate treatment utilizes a regenerable ion exchange treatment system but will be designed specifically for nitrate removal.

In 2019, SGVWC plans to replace its existing UV treatment equipment with a new more efficient UV treatment technology partially funded via a Proposition 1 grant.

The next component of the remedy prescribed for the southern area is a new treatment facility that is located at the SGVWC Plant B5. The project finished construction and began testing in 2007. In April 2008, the Plant B5 treatment facility received its amended water supply permit from DDW. The Plant B5 treatment facility will treat water from an existing well (B5B), from a new extraction well drilled on site (B5E) and from an existing City of Industry well located in the San Fidel Well Field. The Plant B5 facility is necessary to meet water supply demand and to serve as a final containment point to prevent the further degradation of clean aquifers resulting from the migrating BPOU contamination plume.

This plan prescribes immediate implementation and long term operation of the southern remedies for the BPOU including all of the necessary facilities to achieve full containment of the BPOU plume at the downgradient edge. In June 2008, the last component of the BPOU remedy became operational. These facilities will accelerate removal of contaminant mass in the Basin, prevent migration of contamination into critical groundwater water supplies, and through the integration of cleanup with water supply objectives, mitigate the existing water supply crisis in the area.



As of ~~December 31~~June 30, 20182019, the southern remedy projects have treated approximately ~~299,165.04~~XXX acre-feet of contaminated groundwater and have removed approximately ~~39,883.7~~XXX lbs. of VOCs, perchlorate, NDMA and 1,4-Dioxane.

**Northern Remedy** - In 2005 construction was completed on a new treatment facility at the VCWD Arrow/Lante wellfield. The new treatment facility known as SA1 treatment facility will consist of all necessary treatment technology and two new extraction wells (SA1-1 and SA1-2) that were constructed east of the treatment facility which will deliver raw water to the facility via new transmission pipelines. The plan also includes a treated water pipeline to deliver all of the treated water to SWS. In 2007, VCWD discovered TCP in its SA1 extraction wells and was forced to construct additional Liquid Phase Granular Activated Carbon ("LPGAC") treatment at SA1 to combat the new found contamination.

Similarly to LPVCWD and SGVWC in 2008, VCWD initiated the process to replace the ion-exchange regenerable treatment system with single pass ion-exchange treatment equipment. Design and construction of the single pass ion-exchange system was completed in 2009.

In 2014, VCWD approved the nitrate management plan which will provide ancillary nitrate blend capabilities to ensure compliance with drinking water standards.

In 2015, VCWD began construction of a new extraction well that will replace existing extraction wells SA1-1 and SA1-2. The new extraction well along with existing well SA1-3 will provide enough capacity to achieve the revised extraction rate of 6,000 gpm.

As of ~~December 31~~June. 30, 20182019, the northern remedy project has treated approximately ~~77,414.27~~XXX acre-feet of contaminated groundwater and has removed approximately ~~42,820.1~~XXXX lbs. of VOCs, perchlorate, NDMA and 1,4-Dioxane.

**Other Remedies** - California Domestic Water Company's ("CDWC") Well No. 14 was affected by contamination emanating from the BPOU, including perchlorate and NDMA. CDWC expanded its existing VOC and NDMA treatment systems by including a perchlorate treatment system. The project is also designed to protect CDWC's downgradient wells. Construction was completed in June of 2002.

Recently DDW informed CDWC that blending for VOCs would no longer be allowed and treatment for VOC removal will be mandatory. In addition, DDW stated that Well No. 10 will not be allowed to operate as a blending source for perchlorate if upstream perchlorate levels are shown to be increasing.



Therefore, CDWC intends to construct dedicated VOC and perchlorate treatment systems for its Well No. 10.

As of ~~December 31~~June 30, 20182019, the CDWC project has treated approximately ~~363,215.81~~XXX acre-feet of contaminated groundwater and has removed approximately ~~18,064.1~~XXX lbs. of VOCs, perchlorate and NDMA.

After losing its Plant 139 and Plant 140 wellfields to the BPOU contamination, SWS constructed new production wells at its Plant 121, Plant 142 and Plant 151 properties. The interim project also included the construction of pipelines that will allow for better operational flexibility and provide additional supply to its affected service area.

In addition to operating the SA1 treatment facility as part of the BPOU remedy, VCWD also has two additional treatment facilities that it owns and operates for its immediate water supply. In 1990, VCWD constructed the Maine East and West treatment facility and in 2004 the Nixon East and West treatment facility.

As of ~~December 31~~June 30, 20182019, the VCWD's Maine and Nixon treatment facilities have treated approximately ~~108,877.71~~XXX acre-feet of contaminated groundwater and have removed approximately ~~2XX,160.7~~XXX lbs. of contamination.

Finally, WQA endorses the construction of the Covina Irrigation Company's ("CICs") Baldwin Pumping Plant. In 2014, WQA assisted CIC in receiving a DDW grant for the construction of the treatment facility. In 2019, it is anticipated that CIC will finish construction and begin start-up testing.

## **SOUTH EL MONTE OPERABLE UNIT**

The SEMOU is generally characterized by shallow groundwater contamination that is mostly contained in the upper 100 feet of the aquifer; however some contamination in the northwest and southern portions of the OU has migrated below 100 feet into the intermediate zone aquifers currently used for potable supplies. Contamination in the SEMOU is predominately VOCs with perchlorate concentrations in certain wells exceeding the State MCL of 6 ppb. Furthermore, cleanup has been complicated by the presence of low concentrations of 1,4-Dioxane in the OU.

The contamination in the SEMOU presents significant threats to local water supplies. One threat is to the aquifers and groundwater supply centers in the northwest portion of the OU and to the northwest of the OU itself. The other is directed towards the Whittier Narrows Dam and the Central Basin to the south. The threat to the northwest has already impacted several critical water supply wells, primarily those owned by the CMP, SGVWC and Golden State Water Company ("GSWC"). These water purveyors have had to implement treatment facilities in order to resolve their water supply crises. The other predominant



threat is from contamination in the shallow aquifers near the source areas that provide a continuous source of contamination that has traveled as far south as the Whittier Narrows Dam. Continued migration of the contamination past the Whittier Narrows Dam threatens many production wells and the sensitive recharge areas within the Central Basin. Immediate action is clearly needed to address these imminent threats.

To address the VOC groundwater contamination in the SEMOU, USEPA released its Interim ROD (“IROD”) in September 2000. The IROD specifies extraction from the intermediate zone at or near CMP’s existing well No. 5, CMP’s existing well No. 12, SGVWC’s existing Plant No. 8 wellfield, and GSWC’s existing San Gabriel (SG1 & SG2) wellfield. USEPA’s plan also includes a new extraction well (CMP No. 15) northeast of CMP No. 12. USEPA’s goal is to contain the flow of contaminants and prevent exposure to downgradient pumping centers operated by CMP, SGVWC, and other purveyors. Although USEPA recommends the use of existing water supply facilities, the PRPs are not mandated to use these facilities in their response, nor are they obligated to integrate water supply with the required remedy. After the discovery of perchlorate in several SEMOU water supply wells and 1,4-Dioxane in the shallow zone of the SEMOU, USEPA considered issuing either an IROD Amendment or an Explanation of Significant Differences (ESD) to require treatment for emerging chemicals (“ECs”). In 2005 USEPA issued an ESD for the SEMOU to include treatment of perchlorate in the intermediate zone and reserved the right to include treatment for 1,4-Dioxane and other ECs at a later date.

With the exception of perchlorate treatment, WQA’s prescribed actions for the SEMOU have, for the most part, been put into place and are consistent with USEPA’s proposed plan. They address specific concerns that (1) action needed to take place immediately to halt further migration into critical water supplies, (2) complications in the negotiations with the PRPs would delay USEPA’s implementation schedule, and (3) PRPs may choose to fulfill their CERCLA responsibility to USEPA without addressing the need to restore water supplies. Specifically, the prescribed actions referenced below have and will address both the immediate threat and water supply crisis prevalent in the northwest portion of the OU and the long-term threat to Central Basin to the south.

To date, USEPA has lodged nine CDs embodying settlements with 72 PRPs for costs associated with implementation of the SEMOU remedy. The funds recovered by USEPA will be used to reimburse affected water purveyors for future treatment and remediation costs associated with the continued operation of remedy wells and treatment facilities as described in the SEMOU remedy through a cooperative agreement between USEPA and WQA.

**Intermediate Zone Remedy** - To address the threat presented in the northwest portion of the OU, WQA’s prescribed action (Figure 3) includes the existing VOC



and perchlorate blending treatment facility at CMP No. 5 along with the existing VOC treatment facilities at CMP No. 12, SGVWC Plant 8 and GSWC SG1 & SG2. Additionally, the plan specifies that water from CMP remediation Well No. 15 be treated at the existing treatment facility at CMP No. 12.

This plan promotes the beneficial use of the treated water by the appropriate water purveyors. To that end, WQA entered into funding contracts in the year 2000 with CMP, GSWC and SGVWC to construct VOC treatment projects ahead of enforcement action by USEPA.

SGVWC's Plant No. 8 VOC treatment facility was completed in October 2000 and is currently operating. Rising levels of VOCs in the wells at Plant 8 caused the DDW to require SGVWC to install a secondary barrier treatment system. Construction of a LPGAC secondary barrier treatment system to polish the air stripper effluent was completed in 2005. As part of the amended water supply permit issued to SGVWC by DDW to operate the Plant No. 8 VOC treatment facility, a sentinel well, SEMW09 had to be installed upgradient and within two years travel time of the Plant No. 8 wells. The primary purpose of the sentinel well is to provide an "early warning" of emerging contaminants that might affect the operation of the Plant No. 8 VOC treatment facility. A 2005 sample of SEMW09 detected 1,4-Dioxane below 1 ppb however, all subsequent sampling events for 1,4-Dioxane have been non-detect.

SGVWC's recent analyses of onsite production Well 8D revealed and continued to confirm the presence of perchlorate and 1,4-Dioxane at concentrations just below the DDW MCL and NL, respectively. Because the current Plant No. 8 VOC treatment facility is not capable of removing perchlorate or 1,4-Dioxane, SGVWC has designed and plans to construct a 5,000 gpm, single pass ion exchange treatment facility for the removal of perchlorate when levels reach 50% of the MCL. Design for advanced oxidation ultraviolet ("UV") light treatment facility for the removal of 1,4-Dioxane will take place when levels in Well 8D exceed the NL of concentrations of 1,4-Dioxane are detected in one of the remaining Plant No. 8 wells. The addition of the ion exchange and UV light treatment facility will ensure continued operation of the Plant No. 8 VOC treatment facility and continued remediation of the SEMOU groundwater. In 2019, SGVWC will ~~begin~~ finished construction of the 1,4-Dioxane treatment facility and testing for its 97-005 amended water supply permit.

Both CMP's and GSWC's VOC treatment facilities for Well No. 12 and SG1 & SG2, respectively, were completed. However, the wells for both plants were subsequently found to be contaminated with perchlorate and immediately shut down. In 2004, CMP completed construction of a perchlorate treatment plant for Well No. 12. In addition to the VOC treatment, GSWC operated an interim perchlorate treatment facility for Well SG1. However based on two years of non-detects for perchlorate contamination, GSWC and CMP have deactivated their perchlorate treatment systems. In 2012, GSWC returned Well SG2 into



service to restore plant capacity. CMP has constructed additional piping to bypass its perchlorate treatment equipment while maintaining it in a state of readiness if future perchlorate treatment is needed. Both projects are endorsed as they are designed to restore lost water supply and protect existing downgradient production wells.

CMP has completed the construction of Well No. 15 and the pipeline to Well No. 12. Additionally, CMP has proposed to construct additional UV light treatment at the Delta site. The additional treatment is necessary to ensure proper remediation of VOC contamination and to prevent a shutdown of water production due to any future 1,4-Dioxane contamination. Construction of the additional treatment and a pipeline connection is anticipated to begin in late 2017.

In 2018, CMP finished construction on its centralized treatment facility. The centralized treatment facility will end the need for redundant wellhead treatment at CMP wells by the construction of a centralized advanced oxidation treatment facility. This new facility will streamline CMP's production and distribution while providing an overall decrease in CMP's treatment and remediation costs.

As of ~~December 31, 2018~~ June 30, 2019, the intermediate zones remedy projects have treated approximately ~~167,892.17XXX~~ acre-feet of contaminated groundwater and have removed approximately ~~22,828.2XXX~~ lbs. of VOCs and perchlorate.

**Other Intermediate Zone Remedies** - In addition to the extraction and containment projects identified in the SEMOU IROD, purveyors in the SEMOU had to construct treatment facilities at several of their wells to ensure a safe and reliable water supply in the event that the IROD projects are temporarily removed from service. Although these projects are not identified as SEMOU remedy projects by USEPA they do contribute to the remedy by removing mass contamination within the groundwater thus improving the regional groundwater basin as a whole.

In 2004, CMP constructed a VOC treatment facility at its Delta Plant to treat VOC contamination that was recently discovered in CMP Well Nos. 1, 3, 10 and Fern. Although not included in USEPA's remedy, the project is consistent with USEPA's IROD.

In 2005, SGVWC constructed a VOC treatment facility at its Plant G4 located within the SEMOU. Although not included in USEPA's remedy, the project is consistent with USEPA's IROD.

In 2016, GSWC constructed a VOC treatment facility at its Garvey Plant located within the SEMOU. Although not included in USEPA's remedy, the project is consistent with USEPA's IROD.



These actions, as prescribed by this plan, will accelerate removal of contaminant mass and help to prevent migration of contamination into critical water supplies. In addition, integrating the cleanup action with the surrounding water supply will mitigate the current water supply crisis caused by the presence of the contamination.

As of ~~December 31, 2018~~June 30, 2019, other intermediate zone projects have treated approximately ~~35,733.27XXX~~ acre-feet of contaminated groundwater and have removed approximately ~~1,804.5XXX~~ lbs. of VOCs.

**Shallow Zone Extraction** - Part of WQA's prescribed response to address the threat to Central Basin was the South El Monte Shallow Extraction Barrier ("South El Monte Barrier"). The South El Monte Barrier was constructed under a voluntary partnership including WQA, several of the local businesses and the City of South El Monte. The objective of the response action was to halt the flow of contaminants near the primary source areas within the SEMOU.

The project consisted of two extraction wells, treatment facilities and discharge pipes which allow the treated water to infiltrate back into the aquifer downgradient of the extraction. The project was originally constructed to remove VOCs and later modified with ozone/peroxide treatment to remove 1,4-Dioxane. Given that there are no water supply wells directly affected in the immediate areas and that water from the shallow aquifer is not normally used for potable use by the purveyors, low priority was given to mandating beneficial use of the water.

In 2004, the WQA discontinued operation of the South El Monte Barrier after it was determined that USEPA's fund-led Whittier Narrows project (see the Whittier Narrows Operable Unit ("WNOU") portion of this plan) would halt the contaminant migration farther downgradient. While this situation was not the preferred alternative, the WQA determined that no water supplies would be affected by discontinuing the project. Additionally, funds made available by discontinuing the South El Monte Barrier were redirected to contain an alternate source of contaminants that was threatening water supplies.

In 2005, the WQA initiated design on a shallow groundwater barrier to be constructed in and around the area of the former J.A. Bozung facility. The WSGRF project will remove a hot spot plume of VOCs and 1,4-Dioxane that threatens downgradient water supplies. The WSGRF started full-time operation in January of 2008 with treatment and remediation estimated to continue through 2017.

In June of 2019, WQA completed field work of its Proposition 1 Expanded Site Investigation Planning Project upgradient of the WSGRF. The project consisted of seven hydropunch and CPT samples along with some isotopic analysis of



selected contaminants. It is anticipated that the results of the project will lead to a robust enhancement of the WSGRF.

As of ~~December 31, 2018~~ June 30, 2019, the treatment facility has treated approximately ~~318.55XXX~~ acre-feet of contaminated groundwater and has removed approximately ~~182.4XXX~~ lbs. of VOCs and 1,4-Dioxane.

## **EL MONTE OPERABLE UNIT**

The EMOU investigation phase has been completed and the remedial objectives have been specified in an USEPA IROD. This OU is generally characterized by shallow groundwater VOC contamination that is mostly contained in the upper 100 feet of the aquifer. Limited amounts of VOC contamination have migrated into the deeper drinking water supplies and the recent discovery of perchlorate in monitoring wells and production wells threatens to complicate cleanup efforts further.

Fortunately, several of the water purveyors have already responded to the spread of contamination by installing wellhead VOC treatment facilities to restore impaired sources of supply before the discovery of perchlorate. However, although many sources were restored, the impact of the contamination on the local water supply remains severe. The City of El Monte ("CEM"), in particular, lost several wells and experienced a shortage of supply. New sources of supply, either from new cleanup facilities or reactivation of existing supplies are greatly needed to enhance and secure the local water supply situation. WQA has provided assistance by leasing the CEM four surplus LPGAC vessels from past WQA projects.

To provide long-term protection of these supplies, immediate actions were needed to cut off and contain the movement of contaminants in the shallow aquifer. Elimination of the high concentrations of contaminants near the sources is necessary to provide for rapid reduction of mass from the aquifer and establish long-term protection of downgradient water supplies. To address this emergency need, in 1997 WQA prescribed the immediate implementation of two shallow extraction barriers to stop the flow of contamination on the western and eastern portion of the OU.

Anticipating that this type of removal would be required, WQA and many of the PRPs for the EMOU executed agreements to fund the construction of these projects. As part of this early response, WQA sponsored three components (extraction and treatment at the Clayton Manufacturing facility and individual extractions with centralized treatment for Hermetic Seal, and Crown City Plating facilities) which operated for several years. Immediate implementation of the shallow extraction barriers ahead of USEPA's mandate will complement these other early responses and help to accelerate the removal of mass from the



Basin and prevent the further migration of contamination into critical groundwater supplies.

In June 1999, USEPA released its IROD which requires containment of the shallow contaminant plume on the western and eastern sides of the OU and containment of the deep contaminant plume on the northwestern and southeastern edges of the OU. In 2002, USEPA released an ESD that requires the containment of emerging chemicals in addition to VOCs. In 2004, due to unrest within the EMOU PRP group, USEPA entered into a CD effectively dividing the PRPs into two distinct work parties, the West Side Performing Settling Defendants (“WSPSD”) and the East Side Performing Settling Defendants (“ESPSD”).

As a result of the elevated levels of Nitrates and Total Dissolved Solids (“TDS”) in both west and east shallow zone extraction projects, local water purveyors are not interested in integrating the treated water into the local supply. Thus, WQA prescribes that, to the extent possible, the water extracted from the shallow extraction projects be put to beneficial use for one of the following alternatives: (1) potable source through blending, (2) industrial reuse, (3) re-injection to the groundwater basin, or (4) used as a reclaimed water source. If no beneficial end use is available and all alternatives have been exhausted, the treated water may be discharged to a nearby channel under direction of the LARWCB and pursuant to the MSGBW’s rules and regulations.

The WSPSD is discharging to adjacent Eaton Wash under an NPDES permit issued by the LARWQCB and the ESPSD will be re-injecting all shallow zone treated water up-gradient of the extraction wells under an LARWQCB discharge permit.

Together, all of these facilities will serve to contain the migration of the contamination in the intermediate (potable) aquifers and prevent the further spread of contamination into critical groundwater supplies. Requiring the beneficial use of shallow zone treated water will enhance the local water supply and help to mitigate the current water shortage caused by impairment of water supply wells.

In 2016, USEPA required both work parties to work together and develop a comprehensive workplan to address regional CrVI contamination within the EMOU. WQA is supportive of this joint effort and will provide any and all assistance necessary to fully characterize CrVI contamination within the EMOU.

**West Side Remedy** - The WSPSD is responsible for containment of the western shallow zone contaminant plume (Figure 4) and the containment of the northwestern deep zone plume (Figure 5). Containment of the western shallow plume will be accomplished via six extraction wells and a centralized treatment facility. The treatment facility will be designed to treat not only VOCs but all



emergent chemicals (“EC’s”) to below drinking water standards. Construction of the western shallow zone treatment facility, extraction wells and pipeline was completed in January 2012.

In 2019, due to the decline in the water table in the area the WSPSD’s plan to enhance the shallow zone remedy by installing ~~8~~7 new extraction wells.

As of December 31, 2018, the WSPSD shallow zone treatment system has treated approximately 381.63 acre-feet of contaminated groundwater and has removed approximately 35.4 lbs. of VOCs, perchlorate, nitrate and hexavalent chromium.

The existing GSWC Encinita Plant treatment facilities, owned and operated by GSWC and partially funded by the WSPSD, along with a VOC treatment facility, previously owned and operated by Adams Ranch Mutual Water Company (“ARMWC”), will help address the deep zone contaminant plume in the northwestern sector. Both deep zone projects received federal reimbursement from WQA.

In 2016, ARMWC was acquired by the California American Water Company which has ceased operation of the VOC treatment facility leaving the GSWC’s Encinita Plant as the singular operating deep zone remedy project on the west side of the EMOU.

As of ~~December 31~~June 30, 20182019, the west side deep zone remedy projects have treated approximately ~~30,008.49~~XXX acre-feet of contaminated groundwater and have removed ~~724.7~~XXX lbs. of VOCs.

**East Side Remedy** - The ESPSD is responsible for containment of the eastern shallow zone contaminant plume (Figure 4) and the containment of the southeastern deep zone contaminant plume (Figure 5). Containment of the eastern shallow plume will be accomplished via five extraction wells, a centralized treatment facility and three re-injection wells. The treatment facility will be designed to treat not only VOCs but all ECs. The east side shallow zone remedy became operational in January 2015.

As of December 31, 2018, the east side shallow zone remedy project has treated approximately 120.87 acre-feet of contaminated groundwater and has removed 24.0 lbs. of VOCs.

In addition, the ESPSD in conjunction with CEM installed three extraction wells in the intermediate zone aquifer in the southeastern sector and constructing a centralized treatment facility to control migration of low levels of VOCs. The treated water will be conveyed into CEM’s existing distribution system in the area. WQA has provided the ESPSD federal reimbursements for its projects.



The east side deep zone remedy project finished construction and began the required 97-005 amended water supply permit testing.

In 2019, CEM received its 97-005 amended water supply permit for the treatment facility and is using the treated water in its domestic supply.

As of ~~December 31~~June 30, 20182019, the east side deep zone remedy project has treated approximately ~~2,501.12~~XXX acre-feet of contaminated groundwater and has removed ~~119.2~~XXX lbs. of VOCs.

**Other Intermediate Zone Remedies** - Similar to the SEMOU, affected purveyors in the EMOU had to construct additional treatment facilities. Specifically, the CEM constructed three VOC treatment facilities at wells 2A, 10 and 12 to ensure safe and reliable supply to its customers. Although these projects are not identified as EMOU remedy projects by USEPA they do contribute to the remedy by removing mass contamination within the groundwater thus improving the regional groundwater basin as a whole.

As of ~~December 31~~June 30, 20182019, CEM wells 2, 10 and 12 have treated approximately ~~33,499.85~~XXX acre-feet of contaminated groundwater and have remove ~~1,349.8~~XXX lbs. of VOCs.

## **WHITTIER NARROWS OPERABLE UNIT**

In 1999, USEPA issued an amendment to the ROD for the WNOU which identifies the need for a groundwater extraction barrier approximately ¼ mile north of the Whittier Narrows Dam to halt the flow of contamination traveling towards Central Basin. To form an effective containment barrier, five or six extraction sites were required to remove and treat a total of about 12,000 gpm extracting from both the shallow and intermediate zone aquifers. Because USEPA was implementing this remedy under its “fund lead” authority, the responsibility for administering the design, construction and operation of the comprehensive cleanup facility was USEPA. In 2002, USEPA finished construction of the comprehensive cleanup facility.

In recognition of the immediate threat to downgradient water supplies in Central Basin and the potential for significant delays associated with a large-scale treatment facility, WQA had prescribed a phased approach (Figure 6) that addressed the most severe threats first with an immediate early action at well EW4-3. WQA prescribed that well EW4-3 be integrated into the comprehensive potable treatment facility proposed by USEPA. WQA implemented the first component of this early action with the construction of a temporary treatment facility located at well EW4-3. Water from well EW4-3 was treated and temporarily discharged into nearby surface drainages until the full-scale remedy could be implemented. USEPA has completed construction of its centralized treatment facility and integrated well EW4-3 into its extraction system.



In 2005, the City of Whittier reached an agreement with USEPA to take most of the water extracted from the intermediate zone aquifer and use it as a potable supply for its customers. Water from the shallow zone is extracted at a reduced rate and is being discharged into Legg Lake.

In 2006, USEPA conducted a five-year review of the WNOU remedy to ensure that it remains protective of human health and the environment. USEPA concluded that the remedy for the WNOU is protective of human health and the environment.

In 2011, USEPA conducted its second five-year review of the WNOU remedy. USEPA concluded that in the shallow zone the extent of contamination has shrunk dramatically since the remedy construction was completed in 2002 and that contamination concentrations have continued to decline consistently over the that five-year period (2006 to 2010). By 2013 there were no shallow zone MCL exceedances in the WNOU indicating that continued shallow zone extraction was not needed to meet the goals of the shallow zone remedy and it was ceased.

As of ~~December 31, 2018~~ June 30, 2019, the WNOU shallow zone remedy project has treated approximately 30,065.52 acre-feet of contaminated groundwater and has removed approximately 1,618.90 lbs. of VOCs.

USEPA's second five-year review also reports that in the intermediate zone the extent of intermediate zone contamination downgradient of the WNOU extraction wells has declined dramatically since remedy extraction began in 2002. These continued concentration declines have occurred despite intermediate zone extraction averaging less than 3,300 gpm over the last five years. This provides strong evidence that the remedial objectives (hydraulic control of migrating contamination) can be met at a lower extraction rate than the current intermediate zone target extraction rate of 6,000 gpm.

In May of 2013, DTSC assumed operation of the WNOU remedy from USEPA. DTSC subsequently entered into a long term operational agreement with SGVWC in which SGVWC will use the treated intermediate zone in its water supply. Currently SGVWC is operating the treatment facility and discharging the water into Legg Lake while additional infrastructure is being constructed to allow SGVWC to take the treated water into its existing distribution system.

In 2018, DTSC received Proposition 1 funding that will be used to add additional infrastructure to return the WNOU intermediate zone remedy back to a potable water supply project.



As of ~~December 31~~June 30, 20182019, the WNOU intermediate zone remedy project has treated approximately ~~53,721.04~~XXX acre-feet of contaminated groundwater and has removed approximately ~~1,811.2~~XXX lbs. of VOCs.

## **PUEENTE VALLEY OPERABLE UNIT**

In 1998, the USEPA released the Interim ROD for the PVOU that described, in part, USEPA's selected remedy for both shallow and intermediate zone contamination. It stated that the remedial action for the shallow zone shall prevent contaminated groundwater from migrating beyond its current lateral and vertical extent as described in the Remedial Investigation/Feasibility Study ("RI/FS"). The remedial action selected by USEPA for the intermediate zone shall prevent contaminated groundwater from migrating beyond the SGVWC B7 Well Field Area (an area defined by 14 wells in the immediate area of SGVWC's B7 Well Field). Furthermore, perchlorate was recently discovered in the B7 Well Field Area causing USEPA to further evaluate remedy options.

In 2005 USEPA issued an ESD for the PVOU mandating treatment for all ECs in both the shallow and intermediate zones.

In 2009, the PVOU remedial activity was stalled due to conflicting interpretations by two separate divisions of the USEPA, namely the Superfund Division and the Water Division which enforces the Clean Water Act.

As a result, USEPA required additional feasibility studies to be conducted to re-evaluate alternatives for the disposition of the treated water in both the shallow and intermediate zone remedies. USEPA is currently evaluating the feasibility studies.

WQA will continue to help facilitate solutions that will resolve the cleanup stalemate as soon as possible.

**Shallow Zone Remedy** - In 2005 USEPA entered into a CD with United Technologies Corporation ("UTC") to perform the shallow zone remedy in the PVOU. The shallow zone remedy will consist of the installation of nine extraction wells, associated pipelines and a centralized treatment facility at the mouth of the valley (Figure 7). In 2008, UTC completed the installation of all extraction wells and is currently securing pipeline access agreement. Since water from the shallow zone is not suitable for potable use due to high Nitrates and TDS, UTC originally planned to discharge the treated water into a neighboring creek under a discharge waiver from the LARWQCB. However, recent changes to regulations have eliminated that discharge option.

In 2011, due to the continued migration of the contaminant plume USEPA requested that the shallow zone remedy be completed in phases. Phase I consists of migration control of the eastern plume via extraction from well S05,



treatment for VOCs and ECs and re-injection of the treated water into the shallow zone aquifer.

In 2019, UTC amended its Consent Decree with the USEPA to allow re-injection as a potential end use. With this modification UTC has ramped up its remedial design of the shallow zone north remedy.

The Northrop Grumman Systems Corporation (“Northrop”) is responsible for cleanup of the shallow contamination south of Puente Creek emanating from the former Benchmark Technology Facility. The Benchmark facility is understood to be the largest single source of VOC and 1,4-Dioxane contamination in the eastern portion of the shallow aquifer at the mouth of the Puente Valley. This portion of the shallow zone remedial action was part of the remedy in the 1998 ROD. In 2003, the groundwater contamination downgradient of the former Benchmark facility was to be addressed by a facility-specific cleanup through a Cleanup and Abatement Order (“CAO”) administered by the LARWCQB. However, the cleanup was never implemented and in May 2010, lead agency status was transferred to USEPA. Therefore, the groundwater contamination downgradient of the Benchmark facility is again being addressed as part of the shallow zone remedy.

**Intermediate Zone Remedy** - In 2008, Northrop finished construction of the six extraction wells and a portion of the pipeline that were approved by USEPA as part of the intermediate zone remedy at the mouth of the valley (Figure 8). At that time the remedy called for contaminated water to be treated at SGVWC’s existing Plant B7 VOC treatment facility. Treatment would consist of an existing air-stripper, liquid phase granular activated carbon, ion-exchange and advanced oxidation/ultraviolet technologies for the treatment of VOCs and all ECs. In addition, Northrop has reached an agreement in principle with SGVWC to accept the treated water and to provide a blending component with other SGVWC sources. SGVWC has constructed a transmission main from its Plant B6 service area to its Plant B24 to facilitate blending of the PVOU treated water.

In 2013, water quality samples indicated elevated levels of TDS and nitrates that would require a much greater volume of blend water to be compatible with SGVWC’s distribution system. As a result it was determined that additional treatment consisting of reverse osmosis would be required. As a result SGVWC’s Plant B7 site is not likely to accommodate the additional treatment because of its size. Northrop immediately began working with the City of Industry to purchase an alternative site that would be large enough for all treatment facilities.

In 2014, Northrop acquired a property from the City of Industry large enough to site both Intermediate Zone and Shallow Zone South treatment facilities. The current conceptual plan is to have LPVCWD operate the Intermediate Zone Remedy and utilize the treated water in its distribution system.



Pursuant to USEPA's request and agreement with Northrop, SGVWC, in October 2016, properly destroyed Well B7C and decommissioned the accompanying treatment system. SGVWC's Well B11B and accompanying treatment system continues to operate in the PVOU.

In 2018, Northrop will complete the construction of an additional extraction well for a total of 7 to capture contamination at the toe of the plume. In 2019, ~~addition it is anticipated that~~ Northrop will ~~begin~~ began construction of the treatment facility.

As of ~~December 31~~ June 30, 2018 2019, Plants B7 and B11 have treated approximately ~~95,943.17~~ XXX acre-feet and have removed approximately ~~5,097.5~~ XXX lbs. of VOCs.

### AREA 3

In 1999, USEPA began RI/FS investigations in the Area 3 ("ATOU"). The purpose of the RI/FS is to determine the nature and extent of soil and groundwater contamination and to identify likely sources. USEPA has completed the installation of additional monitoring wells in order to collect additional data to assess the extent of the contamination and its relationship to suspected source areas. USEPA released the RI in 2010 and is currently evaluating the results to identify cleanup options. Conclusions of the RI will form the basis of an FS to evaluate cleanup alternatives to prevent and eliminate the release of contaminants at the site. USEPA anticipates the release of the FS sometime in mid-2014. The focus of the FS is to develop, screen and evaluate cleanup alternatives. During development of the FS, USEPA continues investigations to address remaining uncertainties identified in the RI.

ATOU VOC contamination has impacted a number of the City of Alhambra's ("Alhambra") wells. In 2001, Alhambra started operation of Phase I of its pump and treat program. Phase I consists of a VOC treatment facility at Well No. 7. In 2008, Alhambra finished most of the construction of Phase II of its pump and treat program. Phase II consists of VOC and Nitrate treatment technologies at Well No. 8 and has the ability to treat contaminated groundwater from Wells Nos. 8, 11, 12. Alhambra finished construction of Phase II in 2008 and it is operational. All water treated from both Phase I and Phase II projects is used by Alhambra in its distribution system (Figure 9). Both phases of the Alhambra's pump and treat program received reimbursement from WQA's federal funding programs. In addition, California American Water Company has informed USEPA of its rising contamination found at its Rosemead and Grand wells located in the southeastern portion of the ATOU.



In 2019, the City of South Pasadena responded to a regulation that more strictly limits the maximum contaminant level of 1,2,3-TCP. The city completed construction of its treatment facility at the Wilson wellsite.

As of ~~December 31~~June 30, 2018~~2019~~, Alhambra's treatment facilities have treated approximately ~~34,072.15~~XXX acre-feet of contaminated groundwater and have removed approximately ~~1,019.6~~XXX lbs. of VOCs and nitrates.



**SAN GABRIEL BASIN WATER QUALITY AUTHORITY**

**CHAPTER 404 STATUS REPORT**

**TABLE 1 - SCHEDULE OF FUNDING FROM POTENTIALLY RESPONSIBLE PARTIES AND OTHER SOURCES**

**AS OF JUNE 30, 2019**

**DRAFT**

**FUNDING FOR CAPITAL AND**

**TREATMENT & REMEDIATION COSTS<sup>1, 2</sup>**

	<b>SEMOU</b>	<b>BPOU<sup>4</sup></b>	<b>EMOU<sup>9</sup></b>	<b>PVOU<sup>9</sup></b>	<b>ATOU<sup>5</sup></b>	<b>Other<sup>6</sup></b>	<b>Total</b>
Responsible Parties	\$ 15,681,766	\$ 552,679,601	\$ 51,053,979	\$ 106,207,492	\$ -	\$ -	\$ 725,622,838
EPA Federal Grants & Settlements with Responsible Parties <sup>3</sup>	23,673,725	-	-	-	-	-	23,673,725
Federal Grants - Bureau of Reclamation	13,923,033	48,357,671	10,188,794	5,320,769	3,163,612	1,692,803	82,646,682
State Grants - SWRCB <sup>10</sup>	5,000,000	4,629,416	-	-	-	-	9,629,416
State Grants - SWRCB Clean Up & Abatement	2,375,646	-	-	-	-	-	2,375,646
State Grants - DTSC	-	2,853,658	-	-	-	684,499	3,538,157
State Loan - DTSC (Responsible Parties) <sup>7</sup>	-	6,440,000	-	-	-	-	6,440,000
State Funding - Proposition 84 <sup>8</sup>	5,250,000	7,897,473	1,500,000	-	-	-	14,647,473
Water Producers	30,481,081	19,028,018	1,283,000	2,500,000	11,244,903	3,909,546	68,446,548
Watermaster	-	358,319	-	-	-	-	358,319
WQA Sources (Assessments, interest, etc.)	5,315,543	4,328,578	1,608,653	-	-	836,548	12,089,322
<b>Total Funding for Capital and Treatment &amp; Remediation</b>	<b>\$ 101,700,794</b>	<b>\$ 646,572,734</b>	<b>\$ 65,634,426</b>	<b>\$ 114,028,261</b>	<b>\$ 14,408,515</b>	<b>\$ 7,123,396</b>	<b>\$ 949,468,126</b>

**ESTIMATED COSTS FOR CAPITAL**

**AND TREATMENT & REMEDIATION<sup>2, 4, 9</sup>**

	<b>\$ 193,027,324</b>	<b>\$ 873,123,052</b>	<b>\$ 120,163,252</b>	<b>\$ 196,916,435</b>	<b>\$ 34,623,815</b>	<b>\$ 31,851,363</b>	<b>\$ 1,449,705,241</b>
<b>FUNDING GAP</b>	<b>\$ (91,326,530)</b>	<b>\$ (226,550,318)</b>	<b>\$ (54,528,826)</b>	<b>\$ (82,888,174)</b>	<b>\$ (20,215,300)</b>	<b>\$ (24,727,967)</b>	<b>\$ (500,237,115)</b>

**ANNOTATIONS**

- 1 Funding for Capital Projects and Treatment & Remediation ("T & R") Costs reflects funding obligations per current agreements including funds received to date and future anticipated funds.
- 2 The dollar amounts for future anticipated funds and estimated costs do not include an inflation factor. Although there are currently agreements in place for the funding of future Capital Projects and T & R Costs, the agreements do not specify the timing of the funding contributions, nor is the funding itself guaranteed.
- 3 The U.S. Environmental Protection Agency ("EPA") and the U.S. Department of Justice have lodged Consent Decrees which require Responsible Parties to pay a certain amount. WQA has entered into Cooperative Agreements with EPA for \$15.27M of these funds. EPA also granted \$2.65M of additional Superfund funding to the Cooperative Agreement. EPA is holding an additional \$5.75M from the Consent Decrees which will be added to the cooperative agreement at a future date.
- 4 The BPOU agreement covers Capital Projects as well as T & R Costs for operations through 2027. Treatment costs shown above are projected to be ongoing for an additional 5 to 10 years.
- 5 Area Three Operable Unit (ATOU) does not currently have a source of funding for T & R Costs. Treatment is projected for 15 years.
- 6 Funding for Capital Projects and T & R has been provided for treatment facilities that are located within the San Gabriel Basin boundaries but are operating outside the bounds of known operable units.
- 7 State Loan - DTSC, shown above as a source of funding, is being repaid to the State of California by the BPOU Responsible Parties.
- 8 Funding for Capital Projects includes \$9.40M from the second round of Proposition 84, Section 75025, as well as \$5.25M in a Proposition 84 IRWMP grant.
- 9 Responsible Parties are projected to fund T & R Costs for the EMOU and the PVOU for 8 years as required by the Consent Decrees. Treatment Costs shown above are projected to be ongoing for 30 years, therefore the remaining years are considered unfunded.
- 10 State funding for SEMOU includes \$5.0M of Proposition 1 funding which requires a match ranging from 10% to 50%.



**Table 2 – Project Scoring**

QUESTION	PTS.	RESPONSE
Is applicant(s) ready to proceed with the groundwater remediation project?	0	Not fully ready to proceed
	10	Yes, ready to proceed
Does the project complement U.S. USEPA's plans? Is it consistent with USEPA's plans and the NCP?	0	Does not complement plan and is not consistent
	5	Complements and is consistent with USEPA plans
	10	Complements and is consistent with USEPA plans and NCP
How effective is project relative to amount of water treated and made available for use? Does the project use technology consistent with BAT?	0	Not effective relative to amount treated & available for use
	5	Somewhat effective and consistent with BAT
	10	Effective relative to amount treated & available for use, consistent with BAT
What are the impacts or potential impacts to the plume within the Main San Gabriel Basin?	0	No
	5	Some impact
	15	Very significant impact
Is project a joint cleanup and water supply project?	0	Not a joint cleanup and supply project
	5	Only a cleanup project
	15	Yes, project is a joint cleanup/supply project
Is project partially or solely funded by affected purveyor(s)?	0	N/A
	5	Yes, partially funded by purveyor(s)
	10	Yes, solely funded by purveyor(s)
Does the project address immediate water supply needs in the MSG Basin?	0	No
	15	Yes
Does the project address a need for migration control?	0	No
	15	Yes
Is project partially or solely funded by PRPs through an executed agreement?	0	No PRP agreement
	5	Yes, partially funded by PRPs with an agreement
	10	Yes, solely funded by PRPs with an agreement

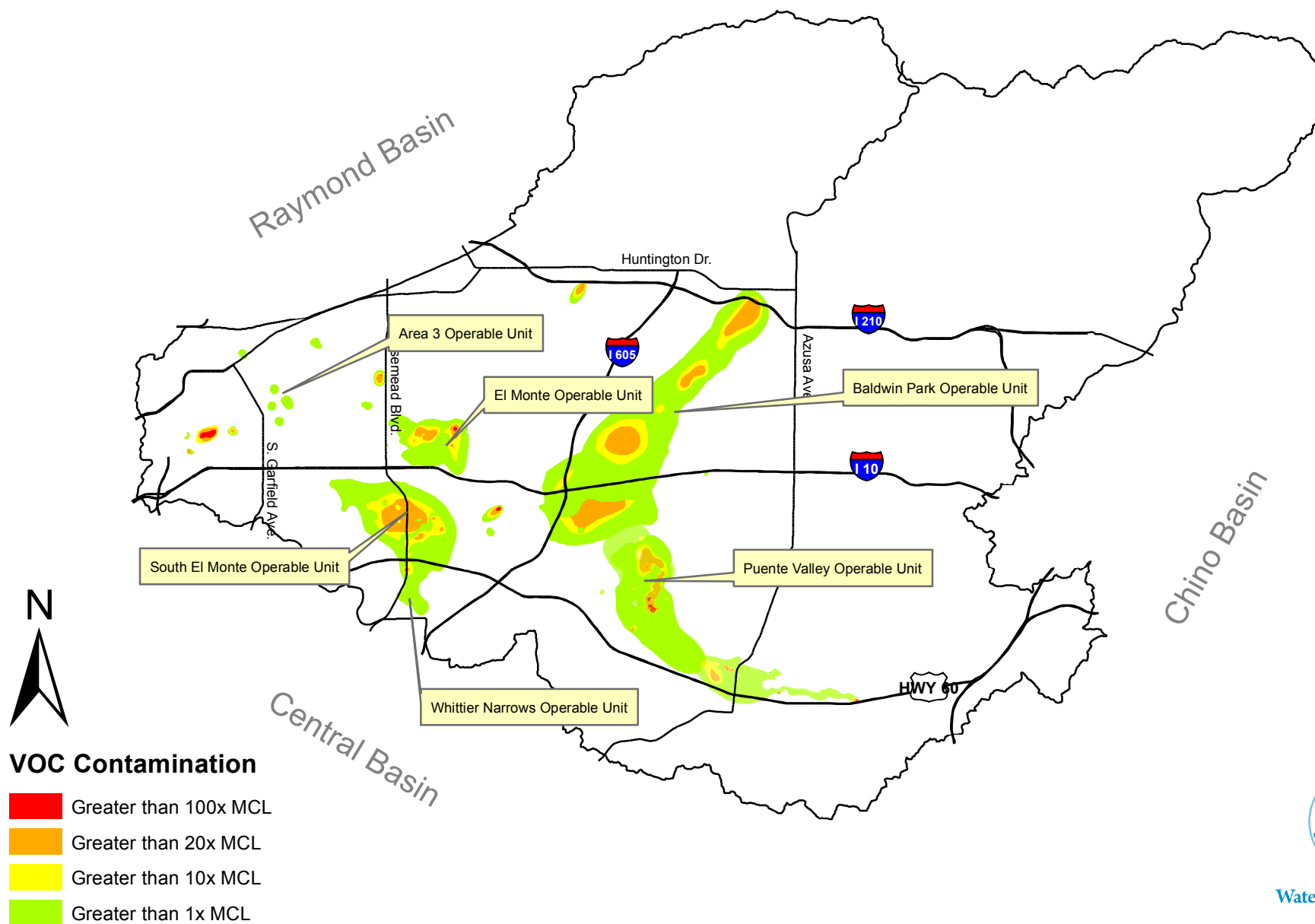


**Table 3 – Priority Ranking**

<b>CATEGORY</b>	<b>SCORING RANGE</b>	<b>TITLE XVI</b>	<b>RESTORATION FUNDS</b>
Category 1	90-100	0 to 25%	up to 65% capital and/or T&R
Category 2	80-89	0 to 25%	up to 50% capital and/or T&R
Category 3	70-79	based upon availability	up to 40% capital and/or T&R
Category 4	0-69	based upon availability	up to 30% capital and/or T&R



# San Gabriel Basin Contamination

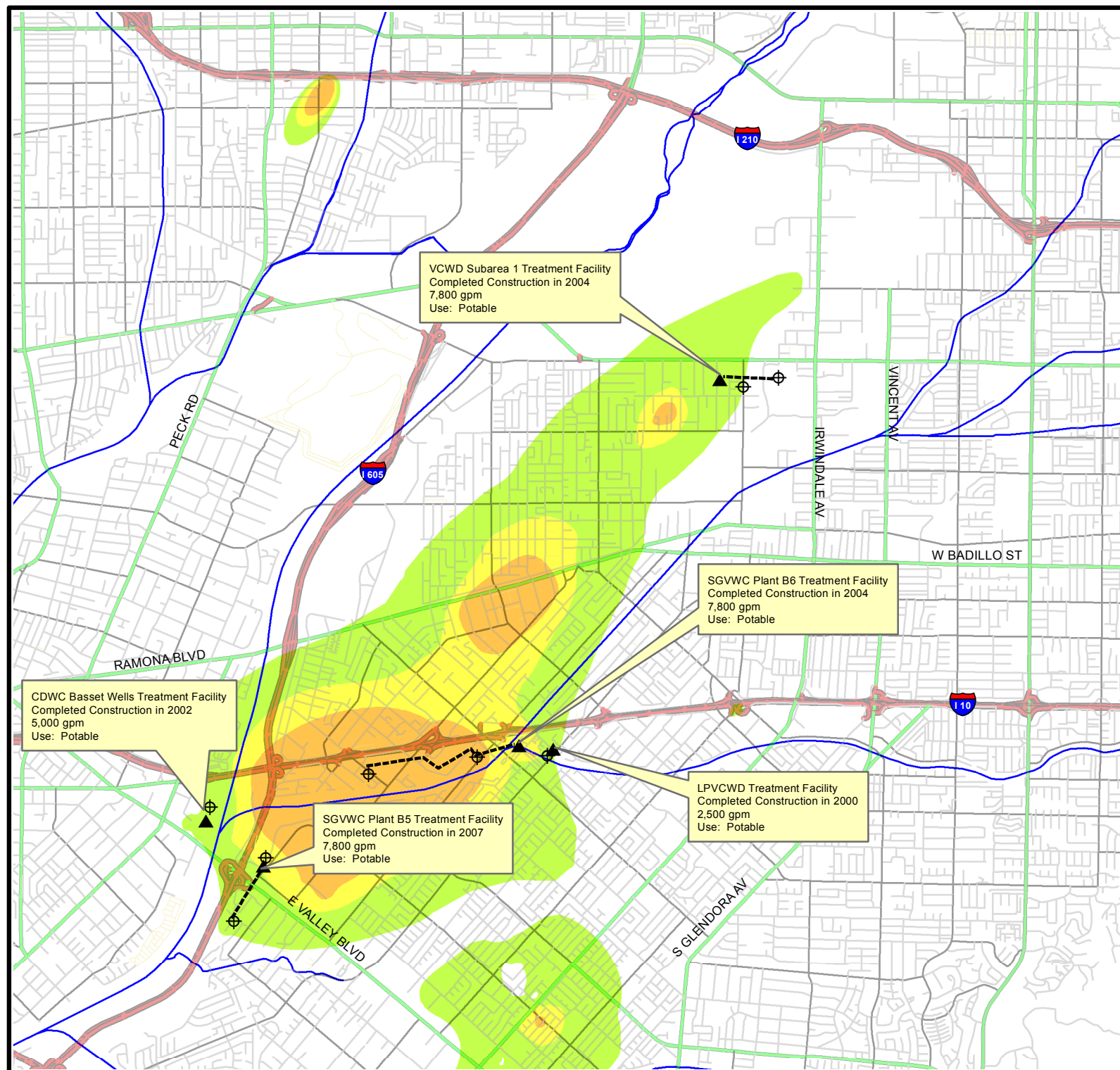


Water Quality Authority

Updated 12/05/2018



**-Figure 2-  
Prescribed Remedy  
Baldwin Park  
Operable Unit**

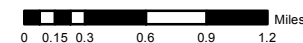


- Pipeline
- ⊕ Remedial Extraction Well
- ▲ Treatment Plant
- Washes

**VOC Contamination**

- Greater than 100x MCL
- Greater than 20x MCL
- Greater than 10x MCL
- Greater than 1x MCL

Source:  
Ecology and Environment, Inc.  
San Gabriel Basin Database GIS  
Prepared for EPA 2011

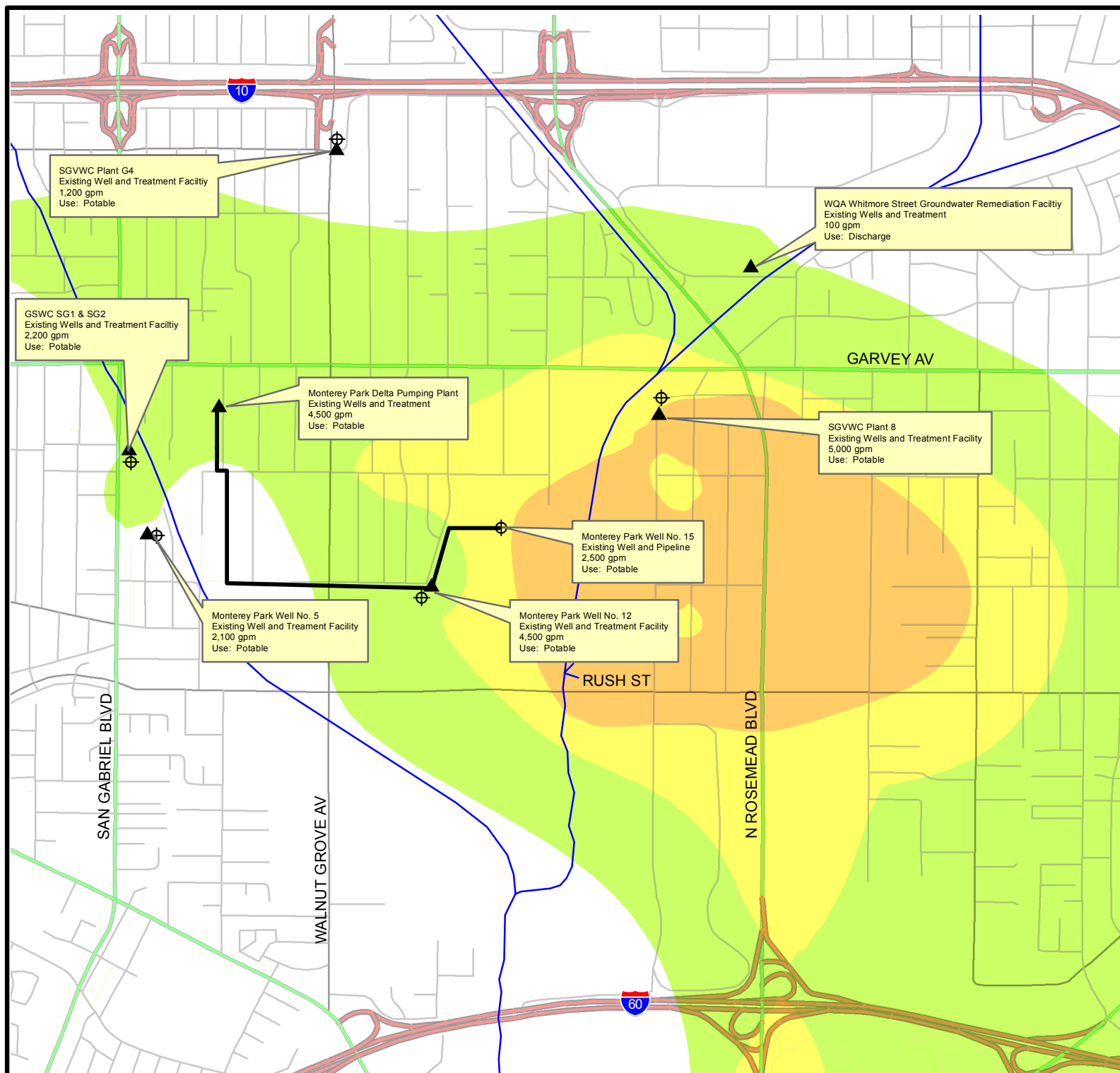


Water Quality Authority

Updated 12/05/2018



**-Figure 3-  
Prescribed Remedy  
South El Monte  
Operable Unit**



- Pipeline
- ⊕ Remedial Extraction Well
- ▲ Treatment Plant

— Washes

**VOC Contamination**

- Greater than 100x MCL
- Greater than 20x MCL
- Greater than 10x MCL
- Greater than 1x MCL

Source:  
Ecology and Environment, Inc.  
San Gabriel Basin Database GIS  
Prepared for EPA 2011

1,300 650 0 1,300 Feet



Water Quality Authority

Updated 12/05/2018



**-Figure 4-  
Prescribed Remedy  
Shallow Zone  
El Monte  
Operable Unit**



- Pipeline
- ⊕ Remedial Extraction Well
- ▲ Treatment Plant
- ⊠ Injection Well
- Proposed Extraction Well

— Washes

**VOC Contamination**

- Greater than 100x MCL
- Greater than 20x MCL
- Greater than 10x MCL
- Greater than 1x MCL

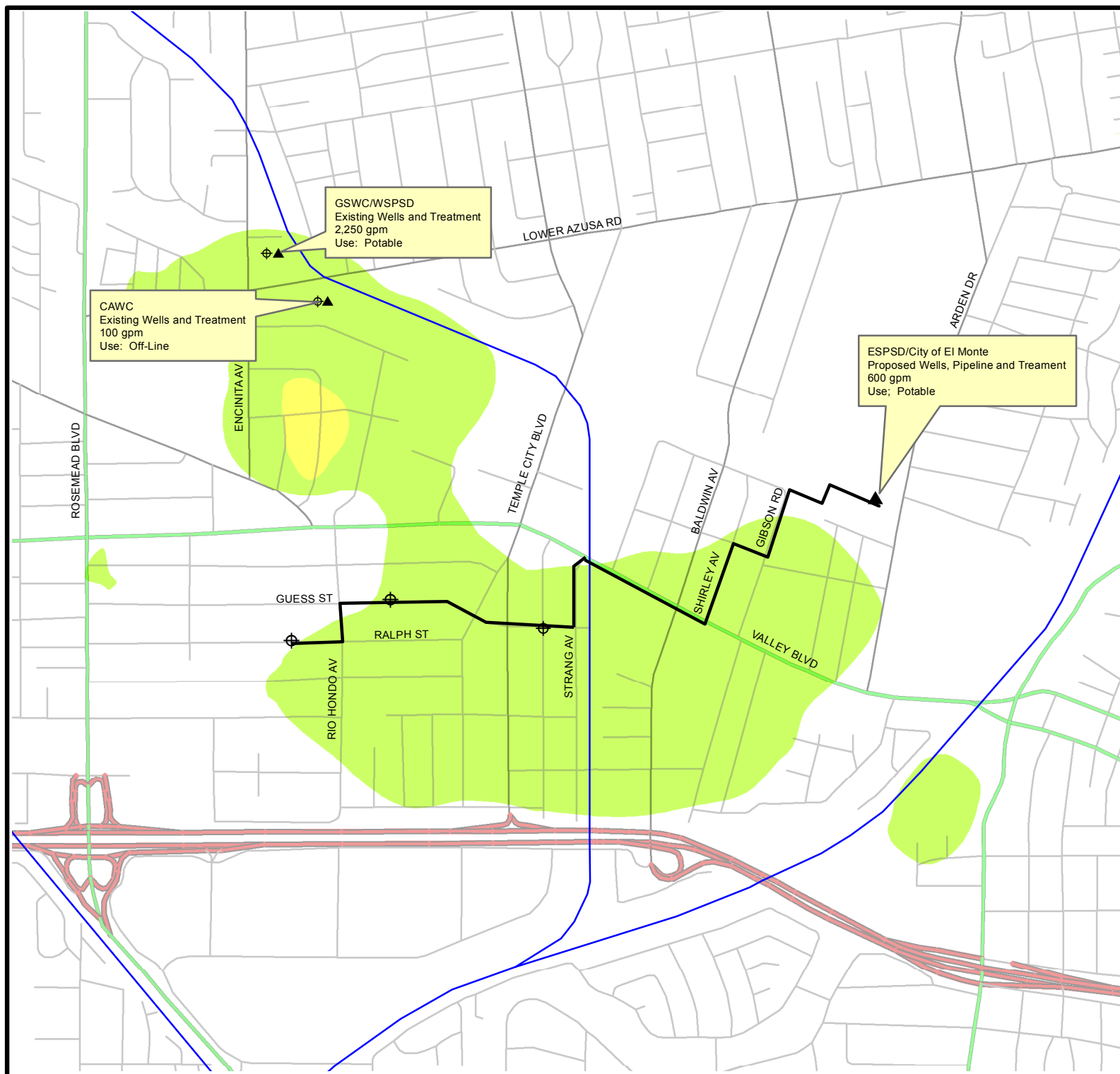
Source:  
Ecology and Environment, Inc.  
San Gabriel Basin Database GIS  
Prepared for EPA 2011



Water Quality Authority  
Updated 12/05/2018



**-Figure 5-  
Prescribed Remedy  
Intermediate Zone  
El Monte  
Operable Unit**



- Pipeline
- ⊕ Extraction Well
- ▲ Treatment Plant

— Washes

**VOC Contamination**

- Greater than 100x MCL
- Greater than 20x MCL
- Greater than 10x MCL
- Greater than 1x MCL

Source:  
Ecology and Environment, Inc.  
San Gabriel Basin Database GIS  
Prepared for EPA 2011

1,100 550 0 1,100 Feet

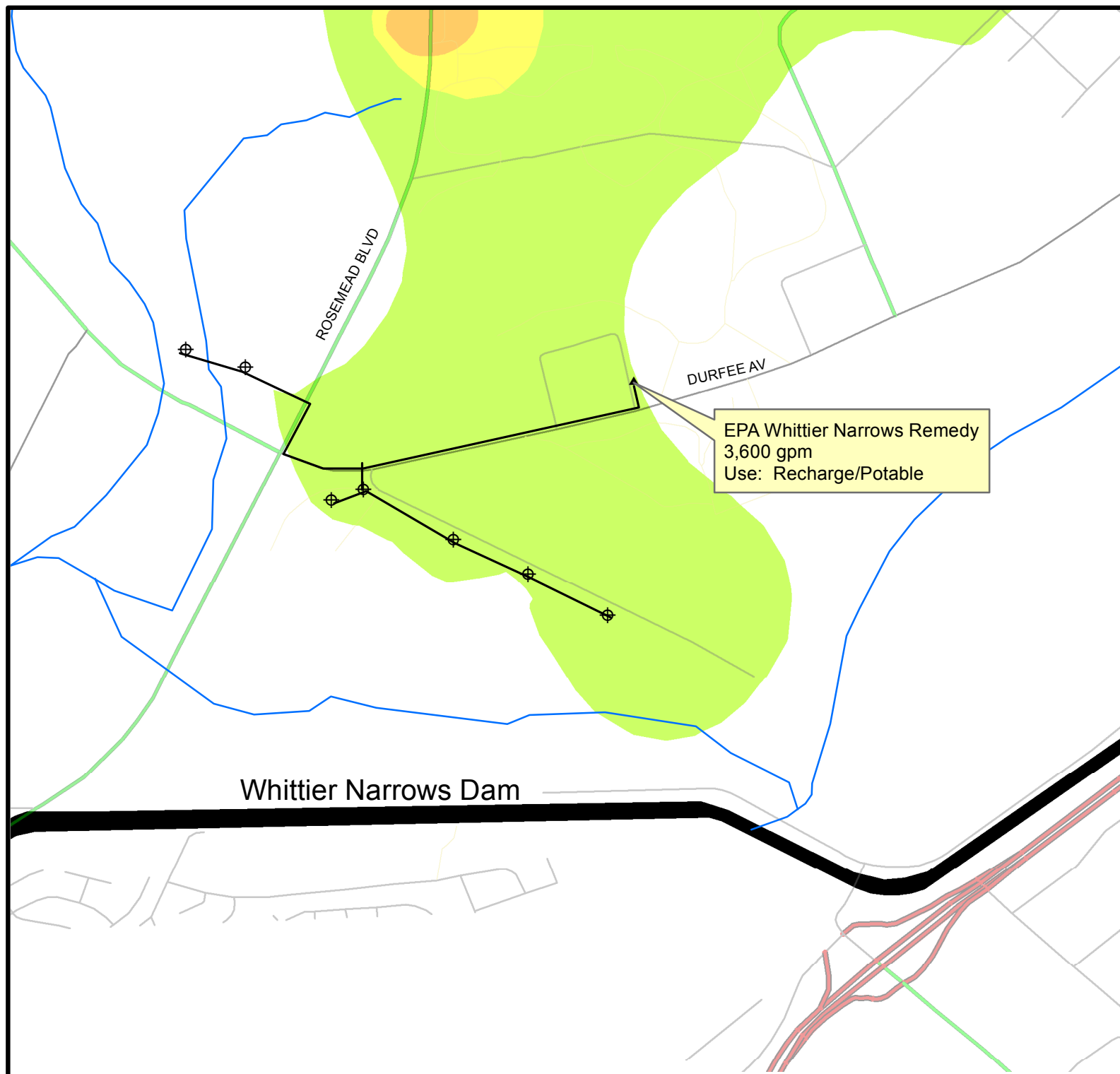


Water Quality Authority

Updated 12/05/2018



**-Figure 6-  
Prescribed Remedy  
Whittier Narrows  
Operable Unit**



- Pipeline
- ⊕ Remedial Extraction Well
- ▲ Treatment Plant

— Washes

**VOC Contamination**

- Greater than 100x MCL
- Greater than 20x MCL
- Greater than 10x MCL
- Greater than 1x MCL
- Dams

Source:  
Ecology and Environment, Inc.  
San Gabriel Basin Database GIS  
Prepared for EPA 2011

800 400 0 800 Feet



Water Quality Authority  
Updated 12/05/2018



**-Figure 7-  
Prescribed Remedy  
Shallow Zone  
Puente Valley  
Operable Unit**



- ..... Shallow Zone Remedy Pipeline
- ⊙ SZ Remedial Extraction Well
- ▲ Treatment Plant

— Washes

**VOC Contamination**

- Greater than 100x MCL
- Greater than 20x MCL
- Greater than 10x MCL
- Greater than 1x MCL

Source:  
Ecology and Environment, Inc.  
San Gabriel Basin Database GIS  
Prepared for EPA 2011

1,100 550 0 1,100 Feet



Water Quality Authority




Updated 12/05/2018









**-Figure 8-  
Prescribed Remedy  
Intermediate Zone  
Puente Valley  
Operable Unit**



-  Intermediate Zone Remedy Pipeline
-  IZ Remedial Extraction Well
-  Treatment Plant

 Washes

**VOC Contamination  
Exceedance**

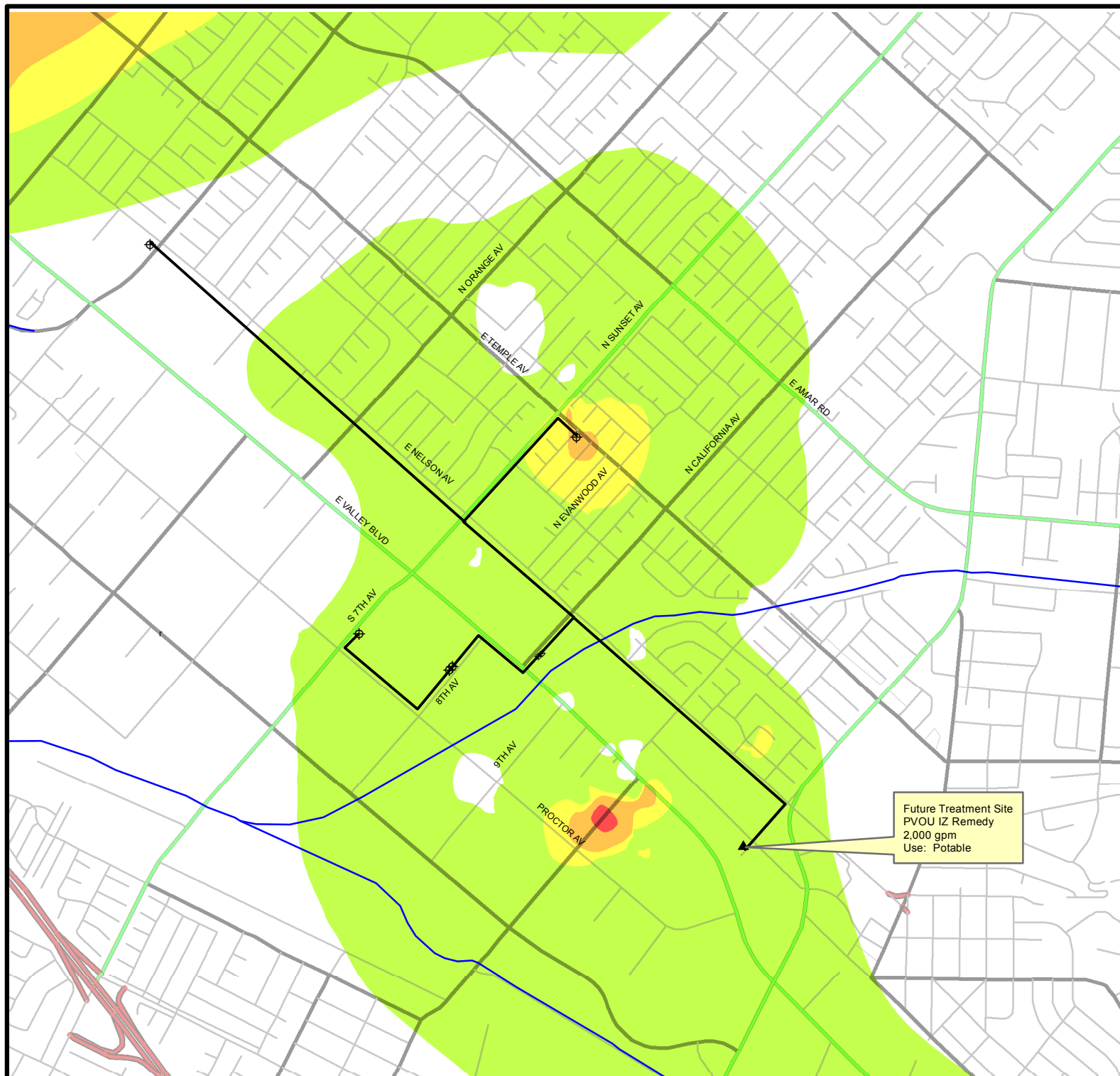
-  Greater than 100x MCL
-  Greater than 20x MCL
-  Greater than 10x MCL
-  Greater than 1x MCL

Source:  
Ecology and Environment, Inc.  
San Gabriel Basin Database GIS  
Prepared for EPA 2011

1,200 600 0 1,200 Feet  

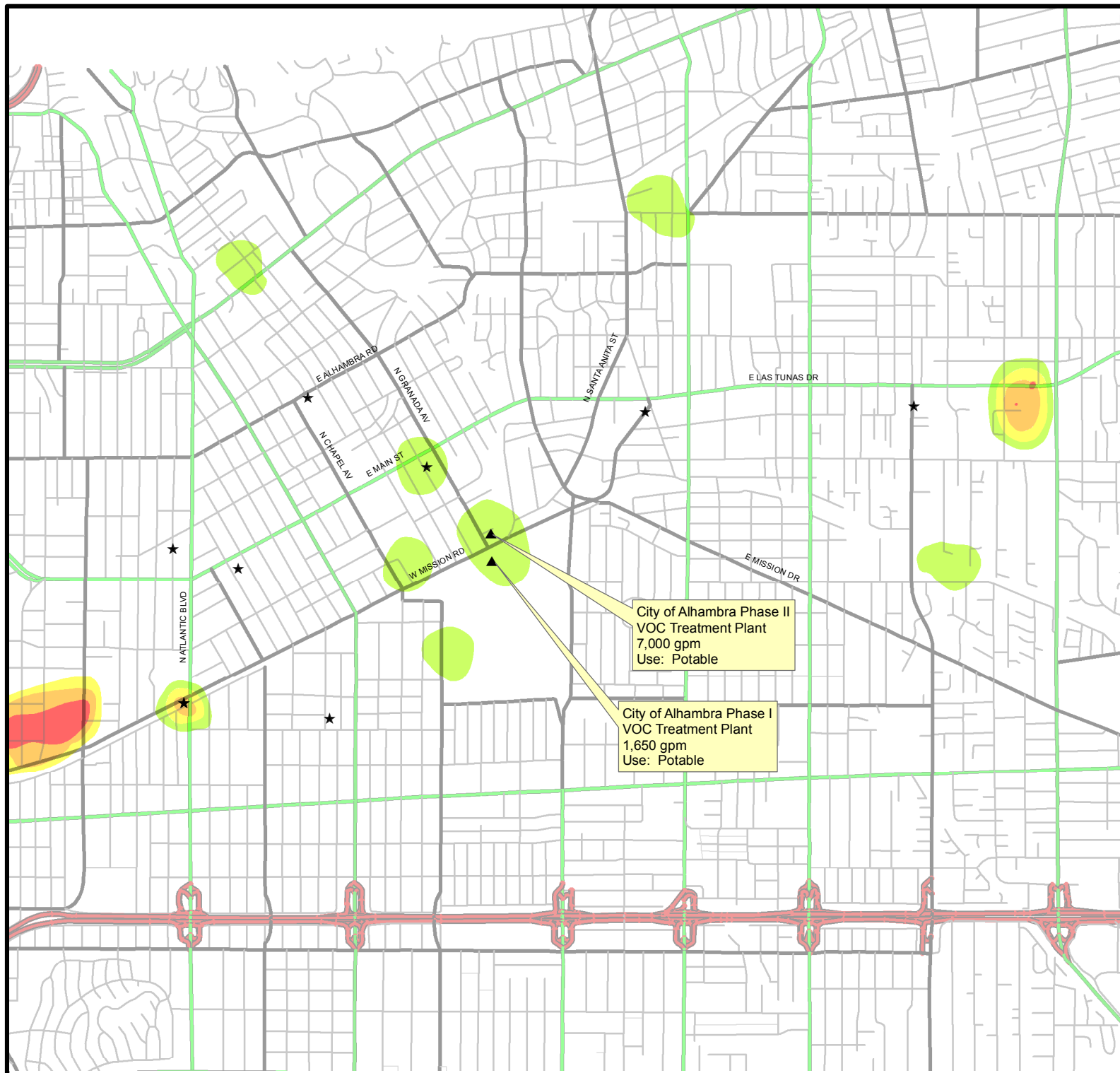



Water Quality Authority  
Updated 12/05/2018





**-Figure 9-  
Prescribed Remedy  
Area 3  
Operable Unit**



- ★ EPA Installed Monitoring Well
- ▲ Treatment Plant

- Greater than 100x MCL
- Greater than 20x MCL
- Greater than 10x MCL
- Greater than 1x MCL

Source:  
Ecology and Environment, Inc.  
San Gabriel Basin Database GIS  
Prepared for EPA 2011

2,100 1,050 0 2,100 Feet

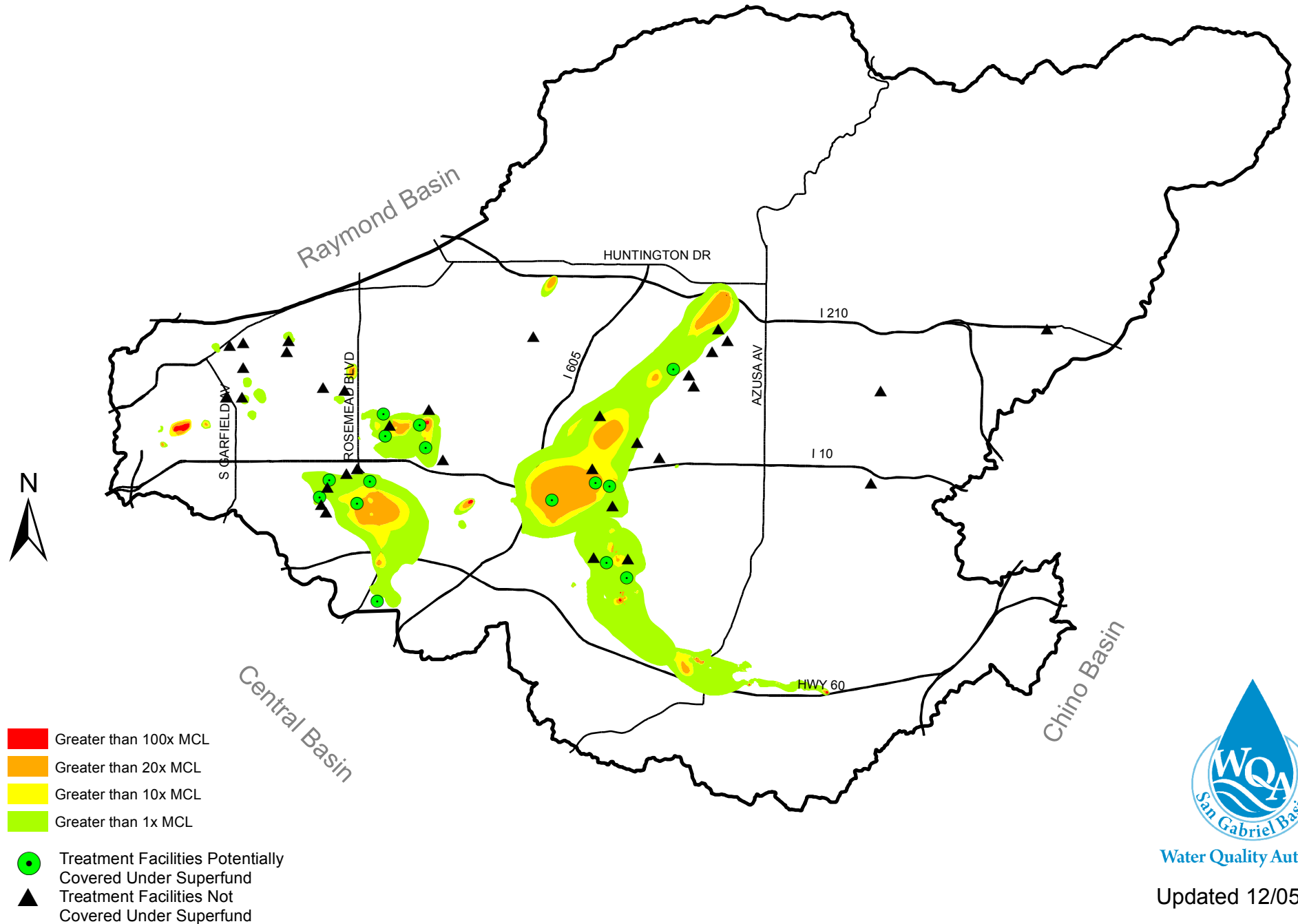


Water Quality Authority

Updated 121/05/2018



# -FIGURE 10- Superfund vs. Nonsuperfund Projects

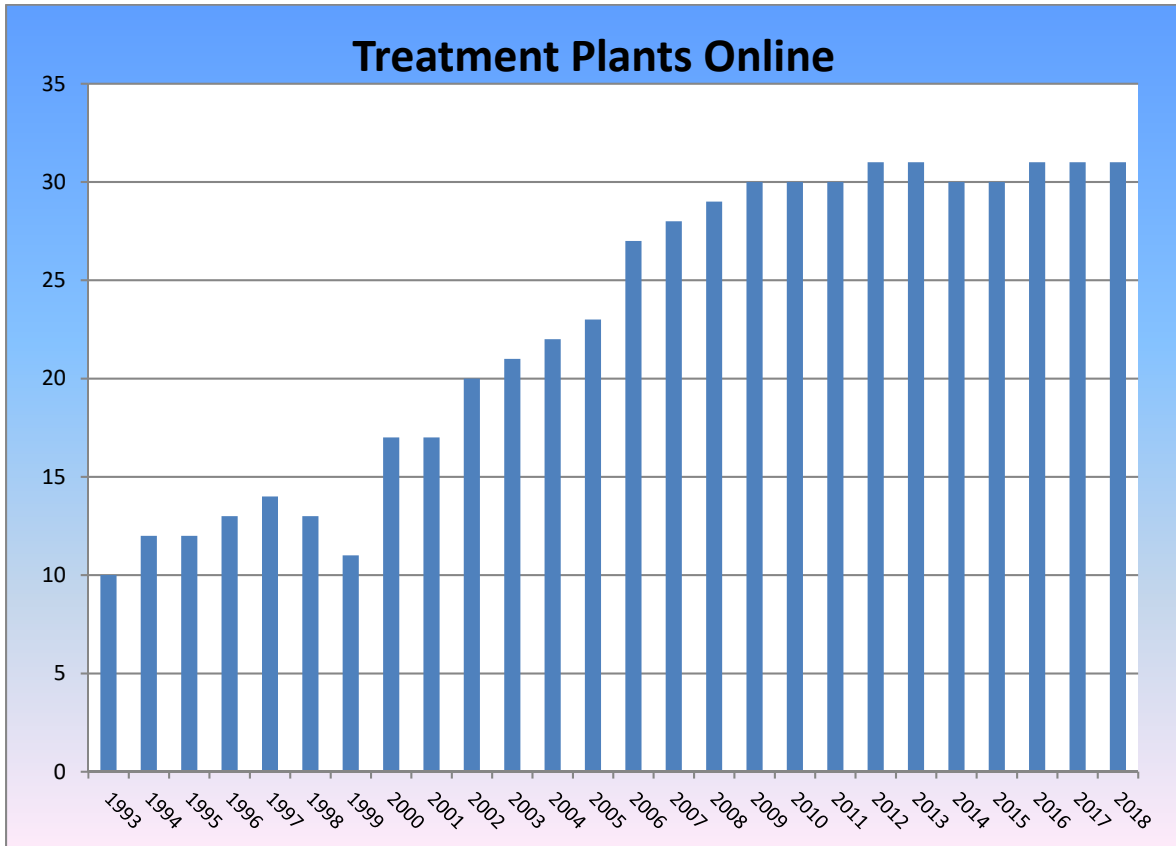


Water Quality Authority

Updated 12/05/2018

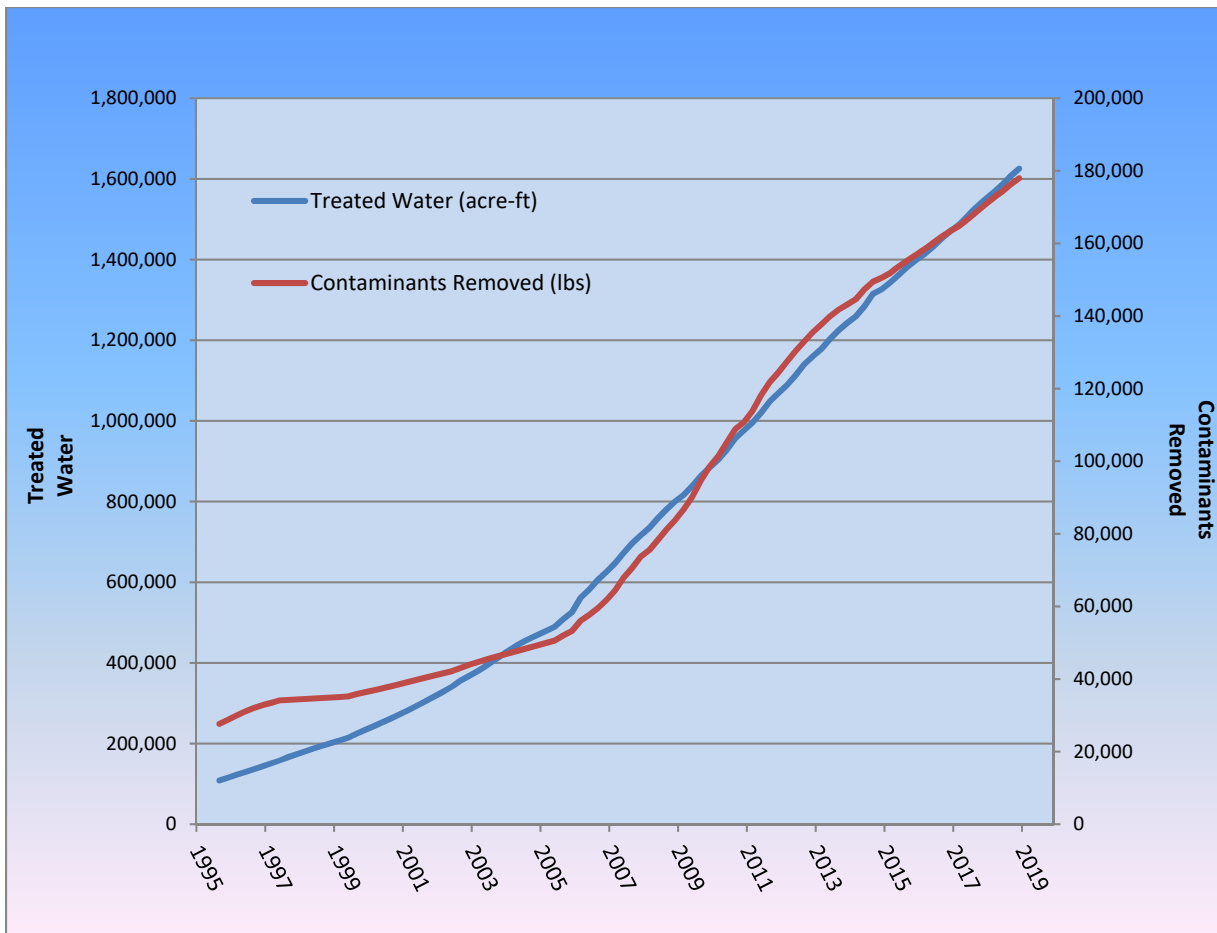


**FIGURE 11 – The number of treatment plants operating in the Basin through December 31, 2018.**





**FIGURE 12 – The total amount of water treated and contaminants removed in the Basin.** WQA considers the overall impact of the combined cleanup projects. This chart demonstrates how much contaminant mass has been removed from the Basin and how much treated water the projects have made available for beneficial use through December 31, 2018.







# 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 Members  
**From:** Kenneth R. Manning, Executive Director  
**Date:** September 18, 2019  
**Subject:** **Monitoring Well MW5-19 Access Agreement with County of Los Angeles  
Department of Parks & Recreation**

---

### Summary

WQA coordinated the construction of several monitoring wells in the Baldwin Park Operable Unit (BPOU) in the 1990's and early 2000's. WQA also executed long term site access agreements with the different entities that owned the property the wells were constructed on. Staff has been in the process of reviewing each of these agreements for necessary modifications and renewals.

BPOU monitoring well MW5-19 was constructed on the County of Los Angeles Department of Parks and Recreation's East County Community Services Agency and Regional Facility Agency Yard located at 265 Cloverleaf Drive, Baldwin Park, CA 91706. The attached agreement allows access to the site for the purposes of sampling and maintaining the well. The term is effectively one year and will have to be renewed. The annual fee is \$1,500 and the application fee is \$500. These costs are reimbursable under the BPOU Project Agreement. Additionally, the BPOU CRs and WQA legal counsel have reviewed the agreement.

### Recommendation / Proposed Action

Approve the San Gabriel Basin Water Quality Authority Access Permit and License Agreement with the County of Los Angeles Department of Parks and Recreation for monitoring well MW5-19.

### Attachment:

- San Gabriel Basin Water Quality Authority Access Permit and License Agreement



**EAST COUNTY COMMUNITY SERVICES AGENCY AND  
REGIONAL FACILITY AGENCY YARD**

265 CLOVERLEAF DRIVE, BALDWIN PARK, CA 91706

**SAN GABRIEL BASIN WATER QUALITY AUTHORITY  
ACCESS PERMIT AND LICENSE AGREEMENT ("LICENSE")**

Licensee:

San Gabriel Basin Water Quality  
Authority  
1720 W. Cameron Avenue, Suite 100  
West Covina, California 91790

Licensors:

County of Los Angeles Department of  
Parks and Recreation  
1000 South Fremont Avenue, Unit #40  
Alhambra, CA 91803  
Building A-9 West  
Authority: L.A.C.C. 2.26.140B (2), (3)  
Expiration Date: See Section 3  
Consideration: See Section 4

- 
- 1. PREMISES:** Licensee, its employees, contractors and agents, after execution of this License by the Director of the Los Angeles County Department of Parks and Recreation ("Director"), is hereby granted permission to enter East County Community Services Agency and Regional Facility Agency Yard ("the Park" or "Premises"), located at 265 Cloverleaf Drive, Baldwin Park, CA 91706 for entry onto Premises from Cloverleaf Drive to conduct sample collection for Baldwin Park Operable Unit (BPOU) Performance Standards Evaluation Plan (PSEP) groundwater monitoring at the existing multiport monitoring well, MW5-19 (Site) located in Licensors' parking area as shown on the site map and photos attached, Exhibits A1-A9 and hereto incorporated into this License.

    - A. Licensee hereby acknowledges the title of Licensors and/or any other public agencies having jurisdiction there over, in and to the Premises, and covenants and agrees never to assail, contest or resist said title.
    - B. Equipment, tools, materials and vehicles are not allowed to remain on the Premises overnight.
  - 2. LICENSED USE:** Licensee is granted access to Premises to conduct its annual monitoring activities at Licensee's Monitoring Well (MW5-19) Site, including pump, draw, extract, remove, test, sample and evaluate groundwater and to operate equipment, make parking closures and conduct such other activities for purposes of inspecting, repairing and maintaining the subject monitoring well. Testing of water samples will be collected and tested away from Site in a laboratory.



Licensee shall exercise the permission herein given in such a manner as to minimize interference with the full use and enjoyment of said Premises by Licensors.

3. **TERM:** The term of this License commences when the License is signed by the Director and runs thereafter for a period not to exceed one (1) year or ending when Licensee's Project is completed, whichever occurs first and subject to Sections 18 and 19.
4. **CONSIDERATION:** Consideration for this License is the following: a) Licensee's compliance with all of the terms and conditions of this License, b) Licensee shall provide Licensors with a written report as to findings of groundwater samplings, c) payment of \$500 application fee; and d) Licensee shall pay an annual fee of \$1,500 to Licensors. This payment shall be made prior to entering the Premises pursuant to this License. Payment to Licensors must be in the form of a check payable to Los Angeles County Department of Parks and Recreation. No cash payments will be accepted by Licensors. Payment Shall be mailed to:

County of Los Angeles  
Department of Parks and Recreation  
Attention: Alina Bokde, Deputy Director  
1000 S. Fremont Avenue, Unit #40, Building A9-West  
Alhambra, California 91803

5. **CEQA COMPLIANCE:** The proposed activities are categorically exempt from the California Environmental Quality Act (CEQA) according to Sections 15301 and 15306 of the State CEQA Guidelines and Classes 1 and 6 of the County's Environmental Document Reporting Procedures and Guidelines, Appendix G, because the actions consist of repair and maintenance of an existing private structures, facilities, or mechanical equipment and information collection.
6. **NOTICES:**

- A. Whenever a provision is made for giving written notice, such notice shall be deemed to have been received if it was sent by mail and e-mailed to: Ms. Alina Bokde at [abokde@parks.lacounty.gov](mailto:abokde@parks.lacounty.gov) and Mr. Randy Schoellerman at [randy@wqa.com](mailto:randy@wqa.com) and addressed as follows:

To Licensors:  
County of Los Angeles Department of Parks and Recreation  
Attention: Alina Bokde, Deputy Director  
1000 South Fremont Avenue, Unit #40, Building A-9 West  
Alhambra, California 91803



To Licensee:

San Gabriel Basin Water Quality Authority  
 Attention: Randy Schoellerman, Assist. Executive Director/Sr. Engineer  
 1720 W. Cameron Avenue, Suite 100  
 West Covina, California 91790

or such other place in California as may hereinafter be designated in writing respectively by Licensor or Licensee.

7. **INDEMNIFICATION:** Licensee shall indemnify, defend and hold harmless County, its Special Districts, elected and appointed officers, employees, and agents from and against any and all liability, including but not limited to demands, claims, actions, fees, costs and expenses (including attorney and expert witness fees), arising from or connected with Licensee's acts and/or omissions arising from and/or relating to this License. The terms of this paragraph survive the termination of this License.
8. **GENERAL INSURANCE PROVISIONS:** Without limiting Licensee's indemnification of Licensor, and in the performance of this License and until all of its obligations pursuant to this License have been met, Licensee shall provide and maintain at its own expense insurance coverage satisfying the requirements specified in this Section, "General Insurance Provisions" and the "Insurance Coverage Requirements – Types and Limits" Section of this License. These minimum insurance coverage terms, types and limits (the "Required Insurance") also are in addition to and separate from any other contractual obligation imposed upon Licensee pursuant to this License. The Licensor in no way warrants that the Required Insurance is sufficient to protect the Licensee for liabilities which may arise from or relate to this License.
  - a. **Evidence of Coverage and Notice to Licensor:** Certificate(s) of insurance coverage (Certificate) satisfactory to Licensor, and a copy of an Additional Insured endorsement confirming County and its Agents (defined below) has been given Insured status under the Licensee's General Liability policy, shall be delivered to Licensor at the address shown below and provided prior to commencing services under this License.
    - i. Renewal Certificates shall be provided to Licensor not less than 10 days prior to Licensee's policy expiration dates. Licensor reserves the right to obtain complete, certified copies of any required Licensee and/or Sub-Contractor insurance policies at any time.
    - ii. Certificates shall identify all Required Insurance coverage types and limits specified herein, reference this License by name and number **001084**, and be signed by an authorized representative



of the insurer(s). The Insured party named on the Certificate shall match Licensee's name. Certificates shall provide the full name of each insurer providing coverage, its NAIC (National Association of Insurance Commissioners) identification number, its financial rating, the amounts of any policy deductibles or self-insured retentions exceeding fifty thousand (\$50,000.00) dollars, and list any Licensor required endorsement forms.

- iii. Neither the Licensor's failure to obtain, nor the Licensor's receipt of, or failure to object to a non-complying insurance certificate or endorsement, or any other insurance documentation or information provided by the Licensee, its insurance broker(s) and/or insurer(s), shall be construed as a waiver of any of the Required Insurance provisions.

Certificates and copies of any required endorsements shall be sent to:

County of Los Angeles Department of Parks and Recreation  
Attention: Diane Thorne  
1000 South Fremont Avenue, Unit #40, Building A-9 West  
Alhambra, California 91803

- iv. Licensee also shall promptly report to Licensor any injury or property damage accident or incident, including any injury to a Licensee employee occurring on County property, and any loss, disappearance, destruction, misuse, or theft of County property, monies or securities entrusted to Licensee. Licensee also shall promptly notify Licensor of any third-party claim or suit filed against Licensee or any of its Sub-Contractors which arises from or relates to this License and could result in the filing of a claim or lawsuit against Licensee and/or Licensor.

- b. **Additional Insured Status and Scope of Coverage.** The County of Los Angeles, its Special Districts, Elected Officials, Officers, Agents, Employees and Volunteers (collectively County and its Agents) shall be provided additional insured status under Licensee's General Liability policy with respect to liability arising out of Licensee's ongoing and completed operations performed on behalf of the Licensor. County and its Agents additional insured status shall apply with respect to liability and defense of suits arising out of the Licensee's acts or omissions, whether such liability is attributable to the Licensee or to the Licensor. The full policy limits and scope of protection also shall apply to the Licensor and its Agents as an additional insured, even if they exceed the Licensor's minimum Required Insurance specifications herein. Use of an automatic additional insured endorsement form is acceptable providing it satisfies the Required Insurance provisions herein.



- c. **Cancellation of or Changes in Insurance.** Licensee shall provide County with, or Licensee's insurance policies shall contain a provision that County shall receive, written notice of cancellation or any change in Required Insurance, including insurer, limits of coverage, term of coverage or policy period. The written notice shall be provided to County at least ten (10) days in advance of cancellation for non-payment of premium and thirty (30) days in advance for any other cancellation or policy change. Failure to provide written notice of cancellation or any change in Required Insurance may constitute a material breach of the Contract, in the sole discretion of the County, upon which the County may suspend or terminate this Contract.
- d. **Failure to Maintain Insurance.** Licensee's failure to maintain or to provide acceptable evidence that it maintains the Required Insurance shall constitute a material breach of the Contract, upon which County immediately may withhold payments due to Licensee, and/or suspend or terminate this Contract. County, at its sole discretion, may obtain damages from Licensee resulting from said breach. Alternatively, the County may purchase the Required Insurance, and without further notice to Contractor, deduct the premium cost from sums due to Licensee or pursue Contractor reimbursement.
- e. **Insurer Financial Ratings.** Coverage shall be placed with insurers acceptable to the County with A.M. Best ratings of not less than A:VII unless otherwise approved by Licensors.
- f. **Licensee's Insurance Shall Be Primary.** Licensee's insurance policies, with respect to any claims related to this License, shall be primary with respect to all other sources of coverage available to Licensee. Any Licensors maintained insurance or self-insurance coverage shall be in excess of and not contribute to any Licensee coverage.
- g. **Waivers of Subrogation.** To the fullest extent permitted by law, Licensee hereby waives its and its insurer(s)' rights of recovery against Licensors under all the Required Insurance for any loss arising from or related to this License. Licensee shall require its insurers to execute any waiver of subrogation endorsements which may be necessary to affect such waiver.
- h. **Sub-Contractor Insurance Coverage Requirements.** Licensee shall include all Sub-contractors as insureds under Licensee's own policies or shall provide Licensors with each Sub-Contractor's separate evidence of insurance coverage. Licensee shall be responsible for verifying each Sub-Contractor complies with the Required Insurance provisions herein and shall require that each



Sub-Contractor name the Licensors and Licensee as additional insureds on the Sub-Contractor's General Liability policy. Licensee shall obtain Licensors' prior review and approval of any Sub-Contractor request for modification of the Required Insurance.

- i. **Deductibles and Self-Insured Retentions (SIRs).** Licensee's policies shall not obligate the County to pay any portion of any Licensee deductible or SIR. The County retains the right to require Licensee to reduce or eliminate policy deductibles and SIRs as respects the County, or to provide a bond guaranteeing Licensee's payment of all deductibles and SIRs, including all related claims investigation, administration and defense expenses. Such bond shall be executed by a corporate surety licensed to transact business in the State of California.
- j. **Claims Made Coverage.** If any part of the Required Insurance is written on claims made basis, any policy retroactive date shall precede the effective date of this License. Licensee understands and agrees it shall maintain such coverage for a period of not less than three (3) years following License expiration, termination or cancellation.
- k. **Application of Excess Liability Coverage.** Licensee may use a combination of primary and excess insurance policies which provide coverage as broad as ("follow form" over) the underlying primary policies to satisfy the Required Insurance provisions.
- l. **Separation of Insureds.** All liability policies shall provide cross-liability coverage as would be afforded by the standard ISO (Insurance Services Office, Inc.) separation of insureds provision with no insured versus insured exclusions or limitations.
- m. **Alternative Risk Financing Programs.** The Licensors reserves the right to review, and then approve, Licensee use of self-insurance, risk retention groups, risk purchasing groups, pooling arrangements and captive insurance to satisfy the Required Insurance provisions. The County and its Agents shall be designated as an Additional Covered Party under any approved program.
- n. **Licensors Review and Approval of Insurance Requirements.** The Licensors reserves the right to review and adjust the Required Insurance provisions conditioned upon Licensors' determination of changes in risk exposures.

## **9. INSURANCE COVERAGE REQUIREMENTS – TYPES AND LIMITS**

- a. **Commercial General Liability** insurance (providing scope of coverage equivalent to ISO policy form CG 00 01), naming County



and its Agents as an additional insured, with limits of not less than the following:

General Aggregate:	\$ 2 million
Products/Completed Operations Aggregate:	\$ 1 million
Personal and Advertising Injury	\$ 1 million
Each Occurrence:	\$ 1 million

- b. **Automobile Liability** insurance (providing scope of coverage equivalent to ISO policy form CA 00 01) with a limits of not less than \$1 million for bodily injury and property damage, in combined or equivalent split limits, for each single accident. Insurance shall cover liability arising out of Licensee's use of autos pursuant to this License, including owned, leased, hired, and/or non-owned autos, as each may be applicable.
- c. **Workers Compensation and Employers' Liability** insurance or qualified self-insurance satisfying statutory requirements, which includes Employers' Liability coverage with limits of not less than \$1 million per accident. If Licensee will provide leased employees, or, is an employee leasing or temporary staffing firm or a professional employer organization (PEO), coverage also shall include an Alternate Employer Endorsement (providing scope of coverage equivalent to ISO policy form WC 00 03 01 A) naming the County as the Alternate Employer, and the endorsement form shall be modified to provide that Licensor will receive not less than thirty (30) days advance written notice of cancellation of this coverage provision. If applicable to Licensee's operations, coverage also shall be arranged to satisfy the requirements of any federal workers or workmen's compensation law or any federal occupational disease law.

**10. OPERATIONAL RESPONSIBILITIES: Licensee shall:**

- a. Comply with and abide by all applicable rules, regulations and reasonable directions of Licensor; designate and provide Licensor with the name(s) and phone contact number(s) of Licensee's responsible representative(s) who shall be on the Premises during the hours Licensee is conducting supervised apprentice training activities in accordance with written specifications submitted by Licensor pursuant to this License.
- b. Licensee is permitted access to the Premises from 7:00 a.m. to 6:00 p.m. weekdays, except when Licensee's permitted use conflicts with scheduled Park events or activities.
- c. Contact Michael Ralston, East Agency Regional Operations Manager, forty-eight (48) hours prior to Licensee's initial access to



Premises and immediately in emergencies: phone (626) 369-3671, cell (626) 926-6494, and email address [mralston@parks.lacounty.gov](mailto:mralston@parks.lacounty.gov). Randy Schoellerman, Assistant Executive Director/Senior Engineer is Licensee's emergency contact who can be reached at (626) 338-5555 by phone, and email address [randy@wqa.com](mailto:randy@wqa.com).

- d. At or before the time proof of insurance is submitted, provide Licenser with the names, license numbers, business addresses, and phone numbers of any and all of Licensee's contractors who will be entering the Premises.
- e. Take the following precautions prior to commencing permitted activities: contact Underground Service Alert (USA) to locate utilities in or near the Premises; review park irrigation/utility plans; walk the Premises and Licensee's access route with Park personnel to flag irrigation/utility lines, sprinkler heads, valve boxes, etc. Notwithstanding said precautions, Licensee agrees to repair or replace any pipelines, sprinkler heads, valve boxes, etc. damaged during the course of exercising the permission herein given.
- f. Maintain the Premises and surrounding area in a safe and sound condition.
- g. Provide all safety and security signs, barricades, pedestrian and traffic cones, lights and other related safety features to prevent vehicular accidents, personal injury, and property damage due to Licensee's activities.
- h. Assume the risks and bear all costs of damage or destruction, and loss due to theft, burglary or vandalism to any and all of Licensee's equipment, materials, tools, and vehicles owned hired, leased, or used by Licensee for this License, except to the extent that such damage or destruction and loss result from the negligence or willful misconduct of Licenser.
- i. Repair or replace, to the satisfaction of Licenser, any and all of Licenser property lost, damaged, or destroyed as a result of Licensee's use of the Premises and activities. Should Licensee fail to promptly make repairs or replacements to Licenser's satisfaction, Licenser may have these repairs made at Licensee's sole cost and expense.

**11. INDEPENDENT STATUS:** This License is by and between Licenser and Licensee. It is not intended and shall not be construed to create the relationship of agent, servant, employee, partnership, joint venture or association as between Licenser and Licensee. Licensee understands and agrees to bear the sole responsibility and liability for furnishing Workers'



Compensation benefits to any person for injuries arising from or connected with services performed on behalf of Licensee pursuant to this License.

12. **EMPLOYEES:** All references to the "Licensee" herein are deemed to include the employees, agents, contractors, apprentices and anyone else required under written contract with Licensee to access the Premises.
13. **LIMITATIONS:** It is expressly understood that in licensing the right to use said Premises, no estate or interest in real property is being conveyed to Licensee, and that the right to use is only a nonexclusive, revocable and unassignable permission to use the Premises in accordance with the terms and conditions of this License.
14. **AMENDMENTS:** The terms of this License may be amended by the Director upon mutual agreement of Licensor and Licensee with either party giving the other prior written notice explaining why the amendment is being requested.
15. **COUNTERPARTS:** This License may be exerted in any number of counterparts, each of which shall be an original, but all of which taken together shall constitute but one and the same instrument.
16. **ASSIGNMENT:** This License is personal to Licensee, and any attempt to assign or transfer same in whole or part without Licensor's prior written consent shall immediately terminate all of Licensee's rights hereunder.
17. **AUTHORITY TO STOP:** In the event that an authorized representative of Licensor finds that Licensee's activities on the Premises unnecessarily endanger the health or safety of persons on or near said Premises, the representative may require that this License immediately be suspended until said endangering activities cease, or until such action is taken to eliminate or prevent the endangerment.
18. **DEFAULT:** This License may be immediately revoked by Licensor in the event of any failure or refusal on the part of Licensee to keep or perform any of the terms or conditions herein. Notice of revocation shall be given as provided by Section 6 of this License. Failure by Licensor to revoke this License for noncompliance of the terms or conditions by Licensee shall not constitute a waiver of the terms or conditions.
19. **TERMINATION:** This License may be terminated at any time without cause for any reason or no reason at all at the option of Licensor by giving five (5) days' notice of termination.
20. **RESTORATION OF PREMISES:** Upon any termination or expiration of this License, pursuant to Sections 3 or 19, Licensee shall surrender the Premises in a neat and clean condition to the satisfaction of Licensor. Licensee shall complete restoration of the licensed area to its original condition or better prior to the termination or expiration of this License.



Restoration of the Premises shall include, but not be limited to, removal of all of Licensee's equipment, vehicles, trailers, containers, signs, litter, and debris. Licensee shall remove all improvements unless otherwise instructed in writing by Licenser. Licenser shall conduct an inspection of the Premises to determine if restoration has been completed by Licensee to Licenser's satisfaction. If Licenser determines that restoration has not been completed to Licenser's satisfaction upon expiration or termination of this License, Licenser may restore said Premises entirely at the expense of Licensee.

Upon any revocation of this License, pursuant to Section 18, Licensee shall surrender the Premises in a neat and clean condition to the satisfaction of Licenser, remove its property therefrom, and restore the Premises as provided above within such time as Licenser may designate.

If Licenser determines that restoration has not been completed to Licenser's satisfaction under any scenario, Licenser may restore said Premises entirely at the expense of Licensee.

21. **ALTERATIONS AND IMPROVEMENTS:** Licensee has examined the Premises and knows the condition thereof. Licensee accepts the Premises in the present state and condition and waives any and all demand upon the County for alteration, repair, or improvement thereof. All betterments to the Premises shall become the property of County upon the termination of this License.
22. **COUNTY LOBBYIST ORDINANCE:** Licensee is aware of the requirements of Chapter 2.160 of the Los Angeles County Code with respect to County Lobbyists as such are defined in Section 2.160.010 of said code and certifies full compliance therewith. Failure to fully comply shall constitute a material breach upon which Licenser may terminate or suspend this License.
23. **TRANSFER OF TITLE/PARK CLOSURE:** In the event Licenser transfers title of the Park and the licensed Premises to a newly-formed or existing governmental agency, this License shall be terminated on the date of said transfer to such agency, unless that agency agrees to assume this License. Licenser agrees to use its best efforts to obtain said assignment in the event Licenser transfers title of the Park to a newly-formed or existing governmental agency. In the event Licenser closes the Park this License shall terminate upon the effective date of such closure. Licenser shall provide written notice to Licensee immediately upon any consideration by the Licenser of the possibility of transferring or closing the Park. Licenser shall provide Licensee with as much prior written notice of any such transfer or closure of the Park as reasonably possible before the effective date of any such transfer or closure.



/

(Signature Page Follows)



**LICENSEE:**

SAN GABRIEL BASIN WATER QUALITY AUTHORITY

By: \_\_\_\_\_  
Kenneth R. Manning, Executive Director

Who hereby personally covenants, guarantees and warrants that he/she has the power and authority to obligate the Licensee to the terms and conditions in this License.

Pursuant to Sections 2.26.140B (2) and (3) of the Los Angeles County Code, this License has been executed on behalf of the County of Los Angeles by the Director of Parks and Recreation on the \_\_\_\_\_ day of \_\_\_\_\_, 2019. Upon approval, a copy of the fully executed License will be provided to Licensee.

**LICENSOR:**

COUNTY OF LOS ANGELES  
DEPARTMENT OF PARKS AND RECREATION

By: \_\_\_\_\_  
John Wicker, Director  
Department of Parks and Recreation

**APPROVED AS TO FORM:**

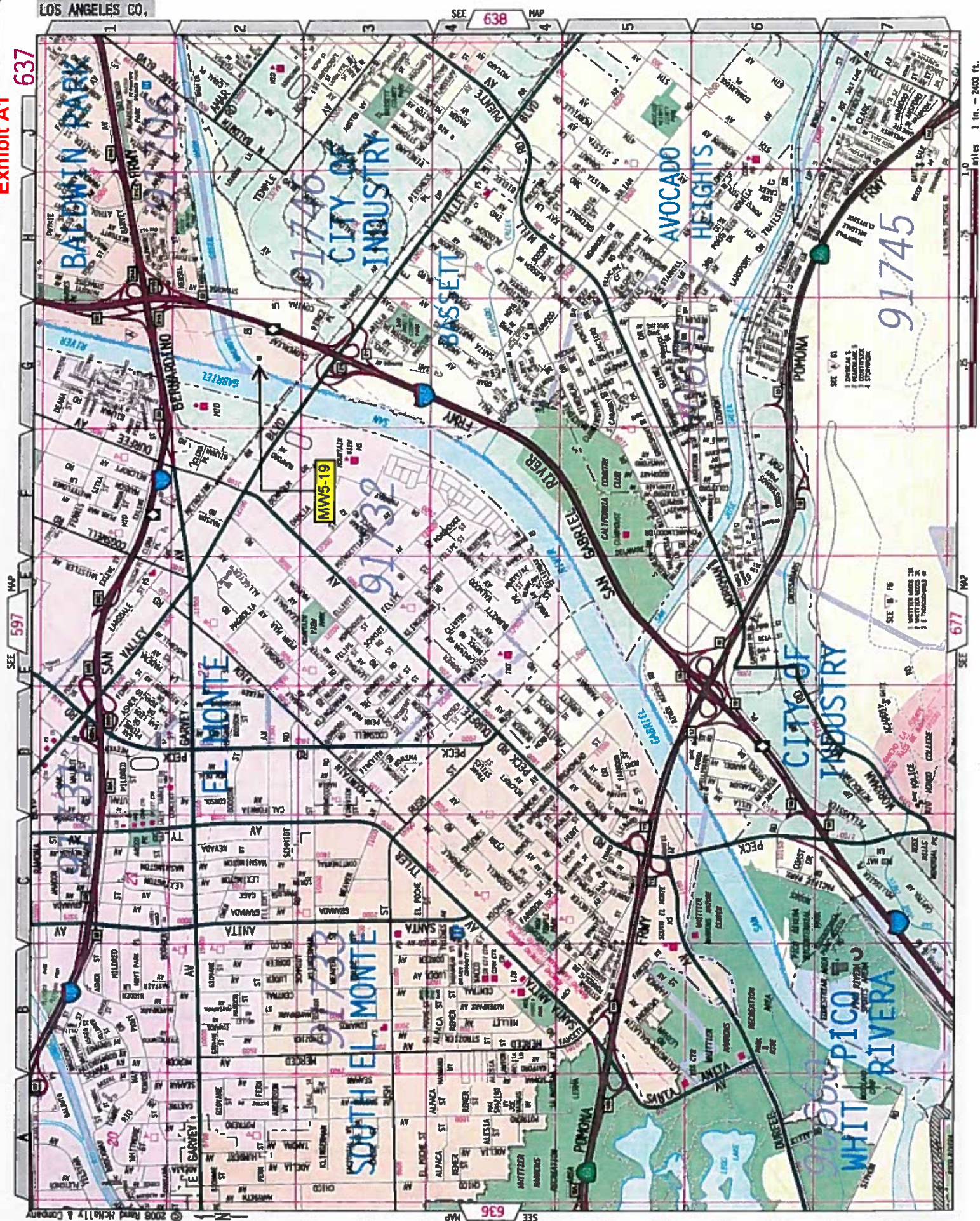
MARY C. WICKHAM  
County Counsel

By: \_\_\_\_\_  
Casey Yourn, Deputy  
Senior Deputy County Counsel



**Los Angeles County Thomas Guide Map, Page 637**







## **Aerial Site Photo**







**Aerial Ingress/Egress Route Map**





Imagery ©2018 Google, Map data ©2018 Google 50 ft

**LEGEND**

..... Ingress Route

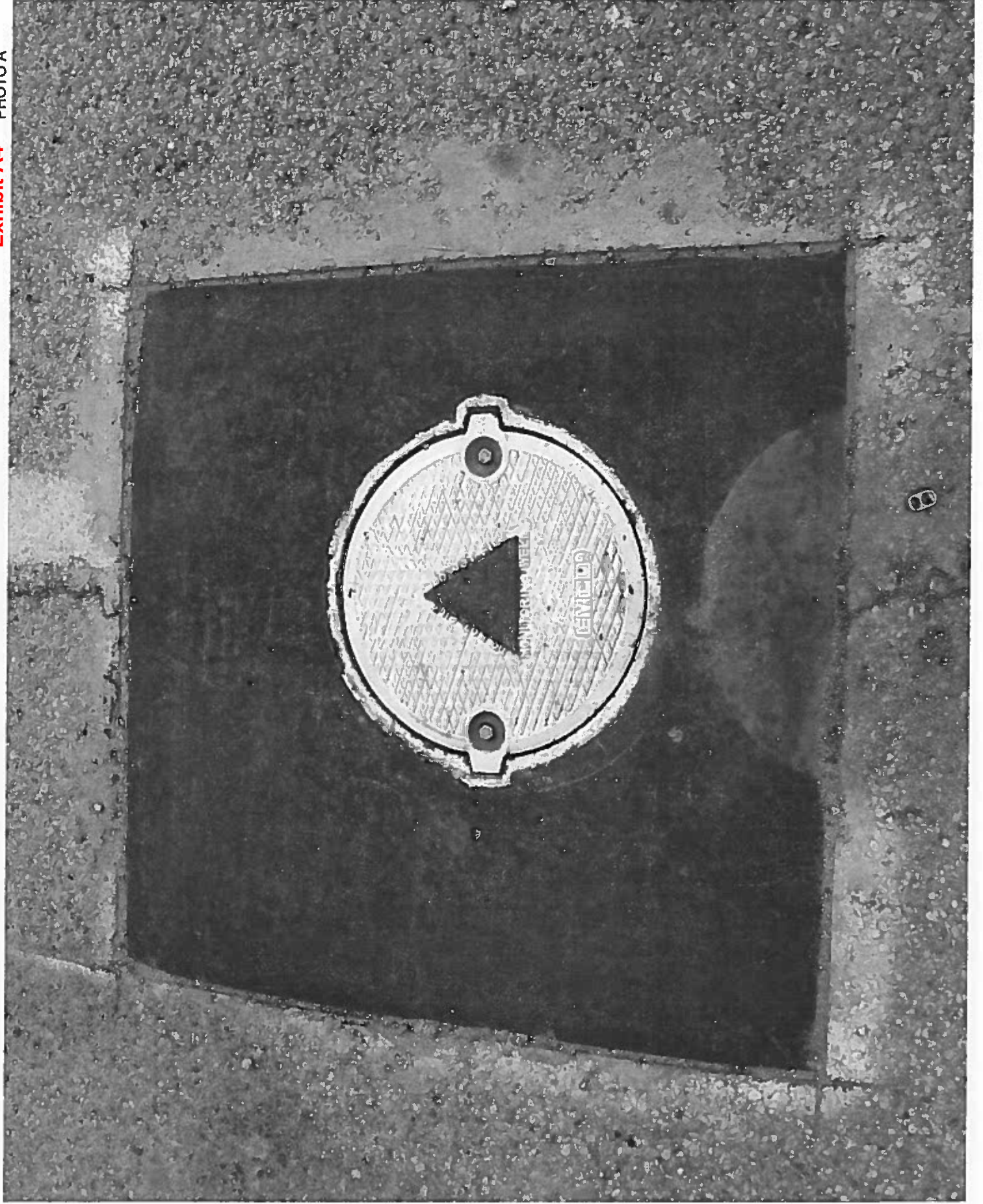
- - - - - Egress Route

**MONITORING WELL MW5-19  
INGRESS/EGRESS ROUTE**



## Photo of MW5-19







**Photos Showing Method of Securing Monitoring Area**  
**(Using signage and cones)**





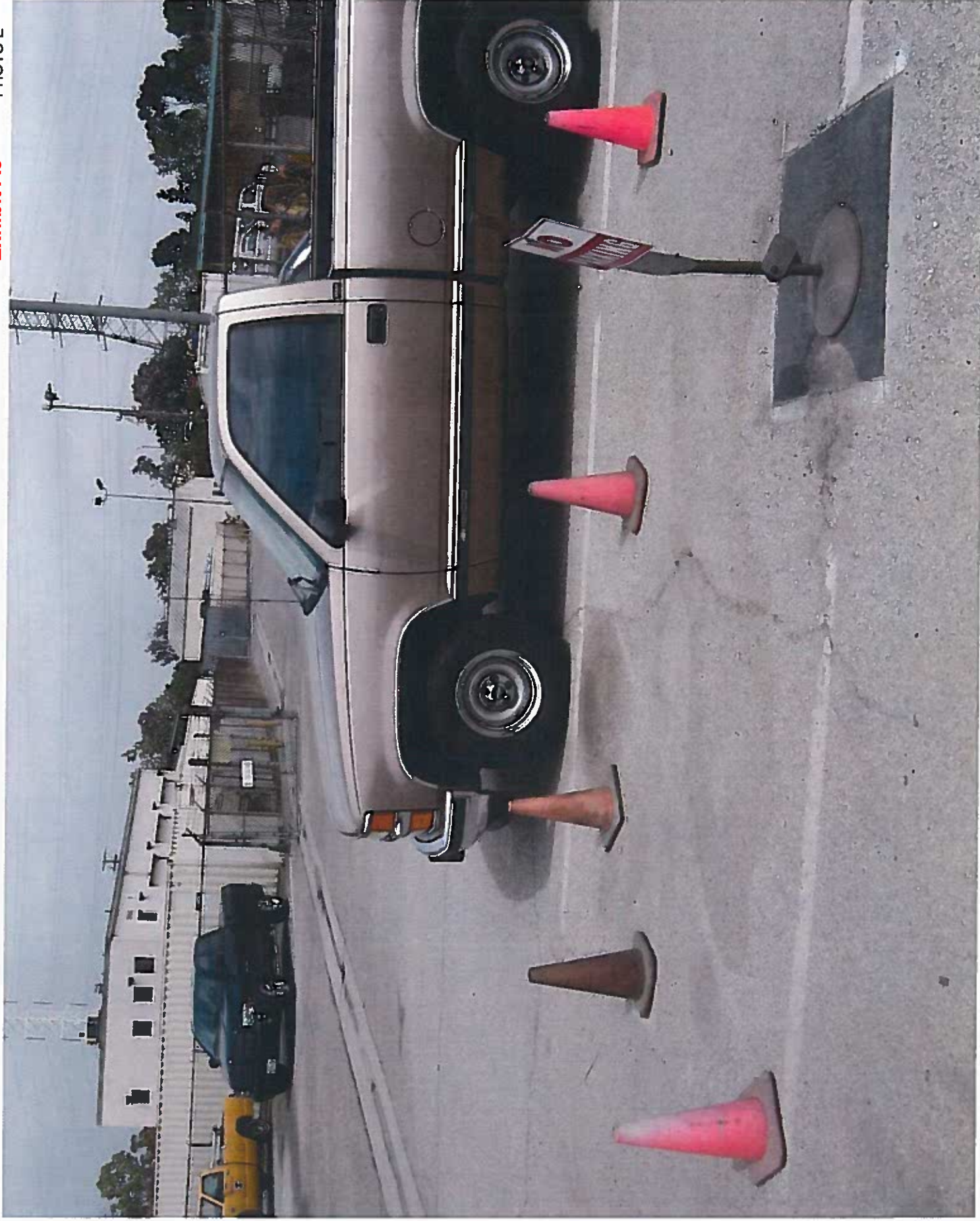














**Photo Showing the Typical Sample Truck**



**Exhibit A9**



**MW5-19**  
Typical (Blain Tech Services) crew truck required for sampling work



## Calendars

- SGVMWD
- TVMWD
- USGVMWD
- WM
- WQA

Sep 11 - Dec 10, 2019

### Wednesday Sep 11, 2019

11:00am - 12:00pm [WQA Leg/Pub Committee](#)

### Thursday Sep 12, 2019

All day [SCWUA Vendors Fair](#)

### Wednesday Sep 18, 2019

8:00am - 10:30am [TVMWD Board Mtg.](#)

10:00am - 11:00am [Upper District Board Meeting](#)

12:00pm - 1:00pm [WQA Board Meeting](#)

### Tuesday Sep 24, 2019

5:30pm - 6:30pm [USGVMWD Gov Affairs Committee Meeting](#)

### Wednesday Sep 25, 2019

4:30pm - 5:30pm [USGVMWD Water Policy Committee Meeting](#)

### Thursday Sep 26, 2019

4:30pm - 5:30pm [Admin and Finance Committee meeting](#)

### Wednesday Oct 2, 2019

8:00am - 10:30am [TVMWD Board Mtg.](#)

10:00am - 11:00am [Upper District Board Meeting](#)

2:30pm - 3:30pm [Watermaster Board Meeting](#)

### Tuesday Oct 8, 2019

10:00am - 11:00am [WQA Admin/Finance Committee](#)

11:00am - 12:00pm [WQA Engineering Committee](#)

### Wednesday Oct 9, 2019

11:00am - 12:00pm [WQA Leg/Pub Committee](#)

### Wednesday Oct 16, 2019



8:00am - 10:30am [TVMWD Board Mtg.](#) ↻

10:00am - 11:00am [Upper District Board Meeting](#) ↻  
12:00pm - 1:00pm [WQA Board Meeting](#) ↻

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## Thursday Oct 17, 2019

11:30am - 1:00pm [SCWUA Meeting](#)

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## Monday Oct 21, 2019

All day » [CA-NV AWWA](#)

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## Tuesday Oct 22, 2019

» All day » [CA-NV AWWA](#)

5:30pm - 6:30pm [USGVMWD Gov Affairs Committee Meeting](#) ↻

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## Wednesday Oct 23, 2019

» All day » [CA-NV AWWA](#)

4:30pm - 5:30pm [USGVMWD Water Policy Committee Meeting](#) ↻

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## Thursday Oct 24, 2019

» All day [CA-NV AWWA](#)

4:30pm - 5:30pm [Admin and Finance Committee meeting](#) ↻

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## Wednesday Nov 6, 2019

8:00am - 10:30am [TVMWD Board Mtg.](#) ↻

10:00am - 11:00am [Upper District Board Meeting](#) ↻

2:30pm - 3:30pm [Watermaster Board Meeting](#) ↻

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## Tuesday Nov 12, 2019

10:00am - 11:00am [WQA Admin/Finance Committee](#) ↻

11:00am - 12:00pm [WQA Engineering Committee](#) ↻

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## Wednesday Nov 13, 2019

11:00am - 12:00pm [WQA Leg/Pub Committee](#) ↻

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## Thursday Nov 14, 2019

11:30am - 1:00pm [SCWUA Meeting](#)



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## Tuesday Nov 19, 2019

5:30pm - 6:30pm [USGVMWD Gov Affairs Committee Meeting](#) ↻

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## Wednesday Nov 20, 2019

8:00am - 10:30am [TVMWD Board Mtg.](#) ↻

10:00am - 11:00am [Upper District Board Meeting](#) ↻

12:00pm - 1:00pm [WQA Board Meeting](#) ↻

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## Wednesday Nov 27, 2019

4:30pm - 5:30pm [USGVMWD Water Policy Committee Meeting](#) ↻

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## Thursday Nov 28, 2019

4:30pm - 5:30pm [Admin and Finance Committee meeting](#) ↻

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## Monday Dec 2, 2019

All day » [ACWA Fall Conference](#)

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## Tuesday Dec 3, 2019

» All day » [ACWA Fall Conference](#)

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## Wednesday Dec 4, 2019

» All day » [ACWA Fall Conference](#)

8:00am - 10:30am [TVMWD Board Mtg.](#) ↻

10:00am - 11:00am [Upper District Board Meeting](#) ↻

2:30pm - 3:30pm [Watermaster Board Meeting](#) ↻

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## Thursday Dec 5, 2019

» All day » [ACWA Fall Conference](#)

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## Friday Dec 6, 2019

» All day [ACWA Fall Conference](#)

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## Tuesday Dec 10, 2019

10:00am - 11:00am [WQA Admin/Finance Committee](#) ↻

11:00am - 12:00pm [WQA Engineering Committee](#) ↻

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