



# MARINA COAST WATER DISTRICT

11 RESERVATION ROAD, MARINA, CA 93933-2099

Home Page: [www.mcwd.org](http://www.mcwd.org)

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## DIRECTORS

THOMAS P. MOORE  
*President*

JAN SHRINER  
*Vice President*

HERBERT CORTEZ  
PETER LE  
MATT ZEFFERMAN

## Agenda

**Regular Board Meeting, Board of Directors  
Marina Coast Water District  
and**

**Regular Board Meeting, Board of Directors  
Marina Coast Water District Groundwater Sustainability Agency**

Marina Council Chambers

211 Hillcrest Avenue, Marina, California

Wednesday, January 29, 2020, 6:30 p.m. PST

*This meeting has been noticed according to the Brown Act rules. The Board of Directors meet regularly on the third Monday of each month with workshops scheduled for the first Monday of some months. The meetings normally begin at 6:30 p.m. and are held at the City of Marina Council Chambers at 211 Hillcrest Avenue, Marina, California.*

***Our Mission:*** *We provide our customers with high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.*

### 1. Call to Order

### 2. Roll Call

**3. Public Comment on Closed Session Items** *Anyone wishing to address the Board on matters appearing on Closed Session may do so at this time. Please limit your comment to four minutes. The public may comment on any other items listed on the agenda at the time they are considered by the Board.*

### 4. Closed Session

A. Pursuant to Government Code 54956.9  
Conference with Legal Counsel – Existing Litigation

- 1) Marina Coast Water District vs California-American Water Company, Monterey County Water Resources Agency; and, California-American Water Company, Monterey County Water Resources Agency vs Marina Coast Water District, San Francisco Superior Court Case Nos. CGC-15-547125, CGC-15-546632 (Complaint for Damages, Breach of Warranties, etc.)

This agenda is subject to revision and may be amended prior to the scheduled meeting. Pursuant to Government Code section 54954.2(a)(1), the agenda for each meeting of the Board shall be posted at the City of Marina Council Chambers. The agenda shall also be posted at the following locations but those locations are not official agenda posting locations for purposes of section 54954.2(a)(1): District offices at 11 Reservation Road, Seaside City Hall, the City of Marina Library, and the City of Seaside Library. A complete Board packet containing all enclosures and staff materials will be available for public review on Wednesday, January 22, 2019. Copies will also be available at the Board meeting. Information about items on this agenda or persons requesting disability related modifications and/or accommodations should contact the Board Clerk 48 hours prior to the meeting at: 831-883-5910.

- 2) Marina Coast Water District v, California Coastal Commission (California-American Water Company, Real Party in Interest), Santa Cruz County Superior Court Case No. 15CV00267, Sixth Appellate District Court of Appeals Case No. H045468
- 3) Bay View Community DE, LLC; Bryan Taylor; Greg Carter; and Brooke Bilyeu vs Marina Coast Water District; Board of Directors of Marina Coast Water District; County of Monterey and Does 1-25, inclusive, Monterey County Superior Court Case No. 18CV000765 (Petition for Writ of Mandate or Administrative Mandate, and Complaint for Declaratory and Injunctive Relief and Breach of Contract)
- 4) Marina Coast Water District, and Does 1-100 v, County of Monterey, County of Monterey Health Department Environmental Health Bureau, and Does 101-110, Monterey County Superior Court Case No. 18CV000816 (Petition for Writ of Mandate and Complaint for Injunctive Relief)
- 5) Marina Coast Water District, and Does 1-100 v, County of Monterey, Monterey County Board of Supervisors, and Does 101-110 (California-American Water Company, Real Party in Interest), Monterey County Superior Court Case No. 19CV003305 (Petition for Writ of Mandate and Complaint for Injunctive Relief)

- B. Pursuant to Government Code 54956.9(d)(4)  
Conference with Legal Counsel – Anticipated Litigation  
Initiation of Litigation – Two Potential Cases

## 7:00 p.m. Reconvene Open Session

**5. Reportable Actions Taken During Closed Session** *The Board will announce any reportable action taken during closed session and the vote or abstention on that action of every director present, and may take additional action in open session as appropriate. Any closed session items not completed may be continued to after the end of all open session items.*

## 6. Pledge of Allegiance

**7. Oral Communications** *Anyone wishing to address the Board on matters not appearing on the Agenda may do so at this time. Please limit your comment to four minutes. The public may comment on any other items listed on the agenda at the time they are considered by the Board.*

## 8. Presentations

- A. [Consider Adoption of Resolution No. 2020-01 in Recognition of Paul Lord, Water Conservation Specialist III, for 15 Years of Service to the Marina Coast Water District](#)
- B. [Receive a Presentation on the District's \\$17,725,000 Enterprise Revenue Certificates of Participation, Series 2019](#)

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## 9. Marina Coast Water District Groundwater Sustainability Agency Matters

## A. Groundwater Sustainability Plan Workshop – Public Hearing

1. [Close the Public Hearing and Consider Adoption of Resolution No. 2020-GSA01 to Approve the 180/400 Foot Aquifer Groundwater Sustainability Plan for the Marina Coast Water District Groundwater Sustainability Agency](#)

*Action: The Board of Directors will close the public hearing and consider approving the 180/400 Foot Aquifer Groundwater Sustainability Plan for the Marina Coast Water District Groundwater Sustainability Agency.*

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## 10. Return to Marina Coast Water District Matters

### 11. [Consent Calendar](#)

- A. [Receive and File the Check Register for the Month of December 2019](#)
- B. [Approve the Draft Minutes of the Regular Joint Board/GSA Meeting of December 16, 2019](#)

## 12. **Action Items** *The Board will review and discuss agenda items and take action or direct staff to return to the Board for action at a following meeting. The public may address the Board on these items as each item is reviewed by the Board. Please limit your comment to four minutes.*

- A. [Consider Appointments of Two Public Members to Fill the Vacant Positions on the Water Conservation Commission](#)

*Action: The Board of Directors will consider appointing two public members to fill the vacant positions on the Water Conservation Commission.*

- B. [Consider Adoption of Resolution No. 2020-02 to Approve Amendment No. 5 to the Professional Services Agreement with Akel Engineering Group, Inc. for Master Plans and Capacity Fees Study for Sewer, Water and Recycled Water](#)  
*Action: The Board of Directors will consider approving Amendment No. 5 to the Professional Services Agreement with Akel Engineering Group, Inc. for Master Plans and Capacity Fees Study for Sewer, Water and Recycled Water to include new development.*

- C. [Consider Adoption of Resolution No. 2020-03 to Reject All Bids on the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase and Direct Staff to Rebid the Project](#)

*Action: The Board of Directors will consider rejecting all bids on the Regional Urban Water Augmentation Project and direct staff to rebid the project.*

- D. [Consider Adoption of Resolution No. 2020-04 to Approve Amendment No. 7 to the Professional Services Agreement with Carollo Engineers for Design of the Regional Urban Water Augmentation Project Distribution Mains Project](#)  
*Action: The Board of Directors will consider approving Amendment No. 7 to the Professional Services Agreement with Carollo Engineers for Design of the Regional Urban Water Augmentation Project Distribution Mains Project.*
- E. [Consider Approving the 2019 Year in Review Report](#)  
*Action: The Board of Directors will consider approving the 2019 Year in Review.*
- F. [Consider Adoption of Resolution No. 2020-05 to Approve Updates to the 5-Year Strategic Plan](#)  
*Action: The Board of Directors will consider approving updates to the 5-Year Strategic Plan.*
- G. [Discuss Increasing Compensation to Directors for Attending Board Meetings](#)  
*Action: The Board of Directors will discuss increasing compensation to Directors for attending Board meetings.*

### **13. Staff Reports**

- A. Receive an Update on the Ord Office Plan
- B. [Receive a Report on Current Capital Improvement Projects](#)
- C. [Receive the 4th Quarter 2019 MCWD Water Consumption Report](#)
- D. [Receive the 2019 Sewer Flow Report through December 31, 2019](#)

### **14. Informational Items** *Informational items are normally provided in the form of a written report or verbal update and may not require Board action. The public may address the Board on Informational Items as they are considered by the Board. Please limit your comments to four minutes.*

- A. General Manager's Report
- B. Counsel's Report
- C. Director's Report
  - 1. [Receive a Report from Director Le Regarding his Attendance at the California Water Association Conference in Monterey](#)
- D. Committee and Board Liaison Reports



1. Water Conservation Commission
2. Joint City-District Committee
3. Executive Committee
4. Community Outreach Committee
5. Budget and Personnel Committee
6. M1W Board Member Liaison
7. LAFCO Liaison
8. FORA
9. WWOC Report
10. JPIA Liaison
11. Special Districts Association
12. SVBGSA Liaison (Steering Committee)

**15. Board Member Requests for Future Agenda Items**

**16. Director's Comments** *Director reports on meetings with other agencies, organizations and individuals on behalf of the District and on official District matters.*

**17. Adjournment** *Set or Announce Next Meeting(s), date(s), time(s), and location(s):*

*Regular Meeting: Tuesday, February 18, 2020, 6:30 p.m.,  
Marina Council Chambers, 211 Hillcrest Avenue, Marina*

Marina Coast Water District  
Agenda Transmittal

Agenda Item: 8-A

Meeting Date: January 29, 2020

Prepared By: Patrick Breen

Approved By: Keith Van Der Maaten

Agenda Title: Consider Adoption of Resolution No. 2020-01 in Recognition of Paul Lord, Water Conservation Specialist III, for 15 Years of Service to the Marina Coast Water District

Staff Recommendation: The Board of Directors consider adoption of Resolution No. 2020-01 recognizing Paul Lord, Water Conservation Specialist III and awarding a gift certificate for 15 years of service to the Marina Coast Water District.

Background: *5-Year Strategic Plan, Strategic Element No. 5.0 – Our objective is to recruit and retain highly qualified, diverse and inspired workforce that delivers the essential services of our mission statement to the public while providing outstanding customer service.*

Discussion/Analysis: Paul Lord joined the District on January 3, 2005 as a Water Conservation Specialist. His positive impact on the District was felt immediately with assistance provided during revisions of the District's conservation ordinance for new construction and the development of new landscape design standards.

In his early years with the District Paul worked diligently in writing the implementation procedures for the California Model Water Efficiency Landscape Ordinance. He made the elements of the water efficiency statute as clear and concise as possible and prepared forms for customers that assist them through the documentation process. In addition, Paul established water budgets for large landscapes, and expanded the District's rebate programs to include Water-Wise landscape incentives and hot water recirculation pump rebates.

Paul's enthusiasm and professionalism has improved District customer service significantly. In 2007, when the District started using the Cityworks Asset Management System, Paul developed a business process for high water bill response. Once the District started installing modern water meters with data logging abilities, he began to utilize this tool to determine potential causes of high water bills. Once Paul has the customer water use data, he investigates, identifies potential issues, and provides recommendations to the customer.

In 2011, Paul designed, developed and helped install a low cost demonstration garden at the District's Ord Office. The irrigation system provides a display of a properly installed system that efficiently supplies water to an attractive low water use landscape. The demonstration garden was recognized by Ecology Action of Santa Cruz with a Monterey Bay Friendly Landscaping Award.

Following the 2012 retirement of the District's Conservation Coordinator, Rich Youngblood, Paul transitioned well into many new roles and responsibilities with great success. Paul is a key staff member managing the District Water Conservation Commission, has participated as an officer and past president on the Water Awareness Committee of Monterey County, and has handled the 2014-16 California Statewide drought response.

Since 2016, Paul has led efforts to collect and report detailed water production and use data needed for the State required Water Loss Audit. His work has validated the District's continued year after year improvement in water use efficiency and water loss prevention. Paul recently initiated and completed accuracy testing of a number of large water meters. Test results assist in the prioritization of the replacement of inaccurate meters, reduce apparent water losses, and assure proper revenue generation for the District.

Paul conducts over 200 conservation inspections and customer assistance calls each year throughout the District service area. During these visits, and at public outreach events, Paul shares his water conservation expertise on how to improve water use efficiency through suggested retrofits, improvements and rebate programs. Paul uses every opportunity to spread the message throughout the District service area on the importance of practicing water conservation every day.

It is with great pleasure that the District recognizes Paul Lord's fifteen years of service to the Marina Coast Water District and wishes him well in his continued service to the District.

Environmental Review Compliance: None required.

Financial Impact:  Yes  No Funding Source/Recap: Expenditures for the gift certificate is allocated across four cost centers from the Hospitality & Awards account.

Material Included for Information/Consideration: Resolution No. 2020-01.

Action Required:  Resolution  Motion  Review  
(Roll call vote is required.)

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Board Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_ Abstained \_\_\_\_\_

Noes \_\_\_\_\_ Absent \_\_\_\_\_

January 29, 2020

Resolution No. 2020-01  
Resolution of the Board of Directors  
Marina Coast Water District  
In Recognition of Mr. Paul Lord for  
15 Years of Service to the Marina Coast Water District

RESOLVED by the Board of Directors (“Directors”) of the Marina Coast Water District (“District”), at a regular meeting duly called and held on January 29, 2020 at 211 Hillcrest Avenue, Marina, California as follows:

WHEREAS, Paul Lord joined the District on January 3, 2005 as Water Conservation Specialist; and,

WHEREAS, Paul has compiled a significant list of accomplishments that have led to direct improvements to the District’s water conservation programs, customer service, support to the Water Conservation Commission, Board of Directors, and District staff; and,

WHEREAS, Paul’s efforts on the Statewide drought response assisted the District to meet the State of California mandated drought response requirements; and,

WHEREAS, Paul has led District efforts to meet the evolving requirements in water conservation with special emphasis in landscape irrigation efficiency, customer retrofitting, water use tracking, water loss auditing, and leak detection; and,

WHEREAS, Paul’s primary focus remains on improving outreach services to our customers through email, bill messages, direct mail, and promotion of District rebate programs; and,

WHEREAS, during his fifteen years with District, Paul has played an integral role in the District Conservation program and has rendered a consistent and outstanding performance of his duties.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Marina Coast Water District does hereby express its gratitude and recognizes Paul Lord for fifteen years of service to the Marina Coast Water District and awards him a gift certificate and wishes him continued success with the District.

PASSED AND ADOPTED on January 29, 2020, by the Board of Directors of the Marina Coast Water District by the following roll call vote:

Ayes: Directors \_\_\_\_\_

Noes: Directors \_\_\_\_\_

Absent: Directors \_\_\_\_\_

Abstained: Directors \_\_\_\_\_

\_\_\_\_\_  
Thomas P. Moore, President

ATTEST:

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

CERTIFICATE OF SECRETARY

The undersigned Secretary of the Board of the Marina Coast Water District hereby certifies that the foregoing is a full, true and correct copy of Resolution No. 2020-01 adopted January 29, 2020.

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

Marina Coast Water District  
Agenda Transmittal

Agenda Item: 8-B

Meeting Date: January 29, 2020

Prepared By: Kelly Cadiente

Approved By: Keith Van Der Maaten

Agenda Title: Receive a Presentation on the District's \$17,725,000 Enterprise Revenue Certificates of Participation, Series 2019

Staff Recommendation: The Board receives a presentation from Fieldman Rolapp & Associates and Morgan Stanley on the District's \$17,725,000 Enterprise Revenue Certificates of Participation, Series 2019

Background: On July 30, 2019, the Board adopted Resolution No. 2019-53 authorizing the issuance of bonds up to \$23,000,000 to finance capital projects with Fieldman Rolapp & Associates as Financial Advisor and Jones Hall as bond counsel and issue an RFP for underwriting services. On September 16, 2019, the Board adopted Resolution No. 2019-71 approving a contract with Morgan Stanley to serve as Underwriter on the District's upcoming issuance of bonds. On November 4, 2019 the Board adopted Resolution No. 2019-79 authorizing the issuance and sale of the Enterprise Revenue Certificates of Participation (COPs), Series 2019 to finance water and wastewater system improvements and approve related Documents and Actions.

Discussion/Analysis: Upon receiving approval to proceed with the issuance of 2019 Enterprise Revenue Certificates of Participation, the financing team proceeded with presenting the financing to Standard and Poor's Rating Agency to review the District's bonds rating. The District received an "AA-" Rating with a Stable Outlook for S&P. Some of the supporting criteria for this rating included, "strong financial management practices and policies, affordable service rates with rate increase approved through fiscal year 2023 and very strong liquidity position and all-in coverage metrics."

The Underwriter, Morgan Stanley, with the District's AA- rating in hand, along with the District's Preliminary Official Statement (disclosure document) spent a week marketing the 2019 Enterprise Revenue Certificates of Participation to potential investors. On December 3, 2020, the District's COPs were placed with several different investors and at the time of commitment, Morgan Stanley, with up to 7.18x subscriptions during the order period was able to reduce the interest rates on several maturities thus reducing the District's overall cost of funds. Final investor orders totaled \$48.4 million, a subscription multiple of 2.73x. The financing closed on December 19, 2019. The final all-in borrowing cost for the transaction was 2.99% over a thirty-year period. Below are the sources and uses of the bond proceeds.

<u>Sources:</u>	<u>Total</u>	<u>Uses:</u>	<u>Total</u>
Par Amount	\$17,725,000.00	Project Fund	\$19,500,000.00
Net Premium from Investors	2,024,662.15	Cost of Issuance	191,169.65
<u>TOTAL</u>	<u>\$19,749,662.15</u>	Underwriter's Discount	58,492.50
		<u>TOTAL</u>	<u>\$19,749,662.15</u>

At closing, the District received funding in the amount of \$19,500,000 for required capital improvement projects including, but limited to the construction of pipeline improvements, replacement of booster pumps, lift station enhancements, construction of reservoir tanks, acquisition of emergency generators at key well sites, booster stations, and sewer pumping facilities to maintain operation during power outages.

Financial Impact:  Yes  No Funding Source/Recap: The debt service associated with the COPs will be allocated based on each cost center's proportion of projects designated for funding. as follows: Marina Water (MW) – 26%; Marina Sewer (MS) – 10%; Ord Water (OW) – 28%; Ord Sewer (OS) – 36%.

Material Included for Information/Consideration: None.

Action Required:  Resolution  Motion  Review

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Board Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_

Abstained \_\_\_\_\_

Noes \_\_\_\_\_

Absent \_\_\_\_\_



Marina Coast Water District Groundwater Sustainability Agency  
Agenda Transmittal

Agenda Item: 9-A1

Meeting Date: January 29, 2020

Prepared By: Patrick Breen

Approved By: Keith Van Der Maaten

Agenda Title: Close the Public Hearing and Consider Adoption of Resolution No. 2020-GSA01 to Approve the 180/400 Foot Aquifer Groundwater Sustainability Plan for the Marina Coast Water District Groundwater Sustainability Agency

Staff Recommendation: The Board of Directors close the public hearing and adopt the 180/400 Foot Aquifer Groundwater Sustainability Plan for the Marina Coast Water District Groundwater Sustainability Agency.

Background: The Sustainable Groundwater Management Act (SGMA) of 2014 requires groundwater basins or subbasins that are designated as medium or high priority to be managed sustainably. The District formed the Marina Coast Water District Groundwater Sustainability Agency (MCWD GSA) in 2014 that primarily overlies the medium-priority Monterey Subbasin and a portion of the high-priority 180/400 Foot Aquifer Subbasin (Figure 1). The Seaside Subbasin is an adjudicated basin and therefore is not subject to SGMA.

The Board is requested to close the Public Hearing that was opened at the December MCWDGSA meeting and consider adoption of the 180/400 Foot Aquifer Groundwater Sustainability Plan the Salinas Valley Groundwater Sustainability Agency (SVBGSA) prepared in coordination with the MCWD GSA.

The 180/400 Foot Aquifer Subbasin is designated as a high priority basin subject to critical conditions of overdraft and therefore must be by managed under a Groundwater Sustainability Plan (GSP) or GSPs by January 31, 2020.

On March 21, 2018, the 180/400 GSP's initial notification was uploaded to California Department of Water Resources (DWR's) SGMA portal pursuant to GSP Regulations §353.6. A MCWD staff member was elected to serve on SVBGSA's Advisory Committee and MCWD GSA has provided comments on each draft GSP chapter as it has been released. Additionally, MCWD GSA and SVBGSA representatives have met regularly during GSP development to discuss issues and comments.

The final draft 180/400 GSP was released on 10 November 2019 and is available for viewing at <https://svbgsa.org/groundwater-sustainability-plan/180-400-ft-aquifer/>. The GSP Executive Summary is attached hereto. SVBGSA accepted written comments on the final draft 180/400 GSP for a 45-day public comment period following the release of the final draft of the 180/400 GSP. MCWD GSA provided final comments on the document, which were verbally discussed and agreed to by SVBGSA representatives on December 4, 2019. The SVBGSA Board of Directors held a public hearing to consider adoption of the GSP on December 12, 2019; which was continued to the January 9, 2020 meeting where it was closed and the SVBGSA adopted the 180/400 GSP.

The SVBGSA adopted the 180/400 plan excluding the area known as the “CEMEX” site consisting of 398 acres that the City of Marina Groundwater Sustainability Agency also has jurisdiction (discussed below) and by adoption of this resolution the MCWD GSA will be excluding the area as well.

Discussion: The 180/400 GSP covers both SVBGSA and MCWD GSA areas and therefore must be adopted by both GSAs no later than January 31, 2020. The adoption must follow public hearings to be held by both GSAs pursuant to Water Code §10728.4. The adopted GSP will be submitted to DWR for an additional public comment period and DWR’s review.

## **JURISDICTIONAL INFORMATION**

Coordination efforts have resulted in the resolution of GSA overlap issues between SVBGSA and MCWD GSA. However, GSA overlap issues remain between SVBGSA and the Marina GSA, for a 398-acre area located at the western end of the 180/400 Foot Subbasin within the jurisdictional limits of the City of Marina and outside of MCWD’s jurisdictional boundary. This overlap will need to be resolved prior to DWR’s acceptance of the GSP. If unresolved, the basin will be designated as probationary after January 31, 2020, and subject to state intervention. However, the Monterey County has declared this area as unmanaged and has sought to become the sole GSA for this area pursuant to Water Code §10724, which would eliminate the outstanding overlap issue.

## **TECHNICAL OVERVIEW OF 180/400 GSP**

Pursuant to SGMA, the 180/400 GSP provides an overview of basin conditions including:

- the estimated basin water budget and sustainable yield;
- identification of undesirable results caused by groundwater conditions (e.g., chronic decline in water levels, seawater intrusion, degraded water quality);
- identification of measurable objectives, minimum thresholds, monitoring requirements, and data gaps;
- projects and management actions; and
- GSP Implementation.

Further discussion regarding each of these topics is provided below.

### ***Estimated Water budget***

The GSP concludes that 180/400 Foot Aquifer Subbasin is in overdraft. The GSP estimates the basin sustainable yield is between 95,000 acre-feet per year (AFY) and 112,000 AFY. Current and predicted future rates of groundwater extraction range between 108,300 AFY and 120,600 AFY. Therefore, a 7% to 12% reduction in pumping is required to stabilize declining groundwater elevations in the subbasin. The GSP notes that the estimated values are very preliminary as the regional numerical model – the Salinas Valley Integrated Hydrologic Model (SVIHM) – has not been made available to the GSAs. The United States Geological Survey (USGS) predicts that the model will be made available in the spring of 2020, after which time additional analyses regarding water budget can be completed.

### ***Undesirable Results***

SGMA requires that the GSP analyze six potential (6) undesirable results within the basin, based on groundwater conditions including:

- 1) lowering of groundwater levels

- 2) reduction in groundwater storage
- 3) seawater intrusion
- 4) groundwater quality degradation
- 5) land subsidence, and
- 6) depletion of Interconnected surface waters.

The GSP analyzes each of these potential undesirable results and identifies measurable objectives and minimum thresholds that will allow the basin to achieve sustainability. Lowering of groundwater levels and seawater intrusion are the most critical undesirable results identified in the 180/400 Foot Aquifer Subbasin.

***Measurable Objectives and Minimum Thresholds***

Measurable objectives and minimum thresholds are established independently within the GSP for each sustainability indicator and are summarized in Chapter 8 of the GSP. With regard to groundwater levels, identified measurable objectives and minimum thresholds include:

- bringing groundwater levels back to 2003 levels, and
- maintaining groundwater levels at one foot above 2015 elevations.

With regard to seawater intrusion, identified measurable objectives and minimum thresholds include:

- bringing the 500 mg/L chloride isocontour line in the 180-Foot and 400-Foot Aquifers back to Highway 1.
- maintaining the current (2017) chloride isocontour line location, and
- not allowing the chloride isocontour line in Deep Aquifer to move beyond Highway 1.

Preliminary monitoring networks are established to verify that these measurable objectives are being met. However, data gaps in these monitoring networks, particularly in the Deep Aquifer are identified and will need to be addressed over the next 3 to 5 years to verify that these sustainability indicators are being met.

***Management Actions and Potential Projects***

Chapter 9 of the GSP identifies a series of potential projects and management actions to address the identified undesirable results. A list of these projects and actions as well as estimated implementation costs for each of these actions is provided below.

<b>Management Actions &amp; Projects</b>		<b>Estimated Total Project Cost</b>		<b>Estimated Unit Cost per Acre Feet of Water</b>
		<b>Capital</b>	<b>O&amp;M</b>	
<u>Management Actions</u>				
1	Agricultural Land and Pumping Allowance Retirement	NA		\$680 to 1,820
2	Outreach and Education for Agricultural BMPs	\$100,000		NA
3	Reservoir Reoperation	\$150,000		NA

4	Restrict Pumping in CSIP Area	\$100,000		NA
5	Support and Strengthen MCWRA Restrictions on Additional Wells in the Deep Aquifers	\$160,000		NA
6	Seawater Intrusion Working Group	\$250,000		NA
<u>Priority Projects</u>				
1	Invasive Species Eradication	\$35,230,000	\$325,000	\$160
2	Optimize CSIP Operations	\$16,400,000	\$200,000	\$270
3	Modify MIW Recycled Water Plant	\$1,493,000	NA	\$90
4	Expand Area Served by CSIP	\$73,366,000	\$480,000	\$630
5	Maximize Existing SRDF Diversion	\$0	\$2,500,000	\$220
6	Seawater Intrusion Pumping Barrier	\$102,389,000	\$9,800,000	NA
7	11043 Diversion Facilities Phase I: Chualar	\$47,654,000	\$2,296,000	\$750
8	11043 Diversion Facilities Phase II: Soledad	\$60,578,000	\$5,050,000	\$880
9	SRDF Winter Flow Injection	\$51,191,000	\$7,629,000	\$590
<u>Alternative Projects</u>				
1	Desalinate Water from the Seawater Barrier Extraction Wells	\$182,000,000	\$9,890,000	\$2,440
2	Recharge Local Runoff from Eastside Range	\$60,340,800	\$1,261,000	\$1,709
3	Winter Potable Reuse Water Injection	\$35,300,000	\$500,000	\$2,250
4	Use the Upper Portion of the 180/400-Foot Aquifer Subbasin for Seasonal Storage	\$7,845,000	\$723,000	\$370

These projects and programs are part of a cohesive set of regional projects and programs designed to achieve sustainability throughout the entire Salinas Valley Groundwater Basin. One of these potential projects includes the construction of a pumping barrier along Highway 1 to control seawater intrusion. However, the 180/400 GSP also discusses other options such as additional temporary pumping reductions or projects to raise groundwater levels in order to control seawater intrusion. The formation of a Seawater Intrusion Working Group is recommended to further assess such actions.

### **180/400 GSP IMPLEMENTATION**

Many key implementation details remain unresolved in the 180/400 GSP. In particular, the 180/400 GSP does not identify the specific management actions or projects that will be implemented to achieve sustainability. However, the GSP does provide an overview of basin conditions, data gaps, known undesirable results, and minimum thresholds and sustainability goals that must be reached by 2040. It also provides a framework for identifying which management actions and projects will be implemented and provides a timeline (i.e., 3 to 5 years) for resolving many key issues. Actions to be performed during this timeframe include:

- (1) completion of GSPs for all other Salinas Valley Subbasins;
- (2) filling of identified data gaps;
- (3) negotiation of a water charges framework and pumping allowances; and

- (4) selection of projects and management actions based on stakeholder input, as well as need and fees.

## **MCWD GSA COMMENTS**

MCWD GSA has provided extensive comments on the GSP. Copies of these comments are included in Attachment B and are tracked in SVBGSA's list of public comments at [https://svbgsa.org/wp-content/uploads/2019/11/Combined\\_Comments-Excel\\_20191119.pdf](https://svbgsa.org/wp-content/uploads/2019/11/Combined_Comments-Excel_20191119.pdf) as well as list of public letters at <https://svbgsa.org/wp-content/uploads/2019/12/Web-posting-12-2-19.pdf>. These comments have been reviewed with SVBGSA. Although some comments have been specifically addressed and/or are acknowledged as data gaps, the majority have been identified for future resolution during the GSP implementation process. For example, one of the key issues identified in MCWD GSA's comments is the absence of information included in the GSP regarding the Deep Aquifer. MCWD representatives have pointed out that available data from the Monterey County Water Resources Agency shows strong inland gradients and continuing water level declines in the Deep Aquifer. The GSP identifies information related to the Deep Aquifer as a significant data gap and calls for strengthening of the County's restrictions on Deep Aquifer well installation until more information is known about the Deep Aquifer. No potential projects or limitations on rates of groundwater extraction from the Deep Aquifer are currently proposed in the GSP. However, additional investigations are proposed for completion over the next 3 years to further evaluate conditions within the Deep Aquifer. The SVBGSA plans to adopt the findings of the Monterey County Water Resource Agency's deep aquifer investigation<sup>1</sup> and expand its monitoring network in the Deep Aquifer. It is anticipated that these investigations will facilitate the development of sustainable management criteria and sustainable yield for the Deep Aquifer. Once these sustainability management criteria are developed the need for further management actions and or projects will need to be assessed.

SGMA requires annual reports and 5-year assessments be submitted to DWR for medium and high priority basins. Each 5-year assessment must describe<sup>2</sup>:

- current groundwater conditions for each relevant sustainability indicator
- implementation of any projects or management actions
- re-evaluation of basin setting
- monitoring network and any data gaps
- any proposed GSP amendments, and
- any actions taken by the GSA to achieve sustainability for the basin

Any proposed amendments to the GSP will need to be adopted by the basin GSAs.

Therefore, MCWD GSA will need to closely review and coordinate with SVBGSA during the implementation phase of the GSP to verify that issues MCWD has identified are addressed as part of the 5-year assessments prepared for the 180/400 Foot Aquifer Subbasin. The 1<sup>st</sup> Five Year Assessment is due for submittal in 2025.

## **CONTINUED COORDINATION**

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<sup>1</sup> The Monterey County Board of Supervisors directed Monterey County Water Resources Agency to conduct a comprehensive investigation of the Deep Aquifers on April 24, 2018.

<sup>2</sup> GSP Regulations §356.4

MCWD is well positioned to continue inter-basin coordination with SVBGSA during the GSP implementation phase. Additional funding has been requested under the Sustainable Groundwater Planning Grant Program – Round 3 (Proposition 68) Solicitation for MCWD to participate in the 180/400 Foot Aquifer Subbasin GSP implementation and complete the Monterey Subbasin GSP in coordination with SVBGSA by 2022. MCWD GSA in coordination with SVBGSA has also requested Proposition 68 funds to allow the development of a more refined groundwater model of the Monterey Subbasin, and a dual density model that can be used to better evaluate the effects of the pumping barrier, and other projects and management actions on controlling seawater intrusion. The scope of work included in this proposal includes the establishment of a Modeling Agreement, that will facilitate aforementioned modeling efforts within the Monterey Subbasin and with other Salinas Valley subbasins.

Environmental Review Compliance: None required.

Prior Committee or Board Action: None.

Financial Impact:     \_\_\_\_\_ Yes     \_\_\_X\_\_\_ No

Funding Source/Recap: None

Material Included for Information/Consideration: Resolution No. 2020-GSA01; and Figure 1 (MCWD GSA), Attachment A (Executive Summary of the 180/400 Foot Subbasin GSP) and Attachment B (MCWD Comment Letters to 180/400 Foot Aquifer Subbasin GSP Draft Chapters).

Action Required:     \_\_\_X\_\_\_ Resolution     \_\_\_\_\_ Motion     \_\_\_\_\_ Review  
(Roll call vote is required.)

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Board Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_ Abstained \_\_\_\_\_

Noes \_\_\_\_\_ Absent \_\_\_\_\_

January 29, 2020

Resolution No. 2020-GSA01  
Resolution of the Board of Directors  
Marina Coast Water District Groundwater Sustainability Agency  
Adoption of the 180/400 Foot Aquifer Groundwater Sustainability Plan

RESOLVED by the Board of Directors (“Directors”) of the Marina Coast Water District Groundwater Sustainability Agency (“District”), at a regular meeting duly called and held on January 29, 2020 at 211 Hillcrest Avenue, Marina, California as follows:

WHEREAS, in the fall of 2014 the California legislature adopted, and the Governor signed into law, three bills (SB 1168, AB 1739, and SB 1319) collectively referred to as the “Sustainable Groundwater Management Act” (“SGMA”), that initially became effective on January 1, 2015, and that has been amended from time-to-time thereafter; and,

WHEREAS, the stated purpose of SGMA, as set forth in California Water Code section 10720.1, is to provide for the sustainable management of groundwater basins at a local level by providing local groundwater agencies with the authority, and technical and financial assistance necessary, to sustainably manage groundwater; and,

WHEREAS, SGMA requires the designation of Groundwater Sustainability Agencies (“GSAs”) for the purpose of achieving groundwater sustainability through the adoption and implementation of regulatory programs known as Groundwater Sustainability Plans (“GSPs”) or an alternative plan for all medium and high priority basins as designated by the California Department of Water Resources (“DWR”); and,

WHEREAS, SGMA requires GSAs to adopt GSPs for each basin/subbasin within the GSA’s jurisdiction; and,

WHEREAS, GSPs for basins designated high priority in DWR’s Bulletin 118, and for those basins designated a in a critical condition of overdraft, are due to be filed with DWR no later than January 31, 2020; and,

WHEREAS, the 180/400-foot aquifer subbasin of the Salinas Valley Groundwater Basin (“SubBasin”) is designated high priority and in a critical condition of overdraft; and,

WHEREAS, the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) in coordination with the Marina Coast Water District Groundwater Sustainability Agency (MCWD GSA) has undertaken the process to prepare a GSP for the Subbasin as required by SGMA; and,

WHEREAS, the SVBGSA has provided the notices required by Water Code section 10727.8, and previously formed an Advisory Committee, consisting of a diverse group of interested parties and stakeholders including the MCWD GSA, which has reviewed and provided input into the GSP for the Subbasin; and,

WHEREAS, the SVBGSA Board of Directors and the Advisory Committee have held numerous public meetings where elements of the GSP for the Subbasin have been presented and



discussed, and where the general public has been provided the opportunity to comment on the various elements of the GSP; and,

WHEREAS, the SVBGSA has received a significant amount of written public comments on the various elements of the GSP, which have been reviewed and commented on, where and as appropriate, as part of the GSP; and,

WHEREAS, the MCWD GSA Board of Directors has noticed a public hearing for December 16, 2019, as required by Water Code section 10728.4 for the purpose of consider adopting a GSP for the Subbasin; and,

WHEREAS, at the public hearing, the Board of Directors considered the GSP for the Subbasin and the comments from the public thereon; and,

WHEREAS, the GSP for the Subbasin contains all the elements required by Water Code sections 10727.2 and 10727.4; and,

WHEREAS, after its filing with DWR, the GSP for the Subbasin will be subject to a further public review period, and will undergo review by DWR for a period not exceeding two years; and,

WHEREAS, the GSP for the Subbasin will be subject to further updating during the DWR review period, and periodically thereafter; and,

WHEREAS, the City of Marina previously voted to become a GSA over a small portion of the Subbasin, creating an overlap with the SVBGSA for that area known as the “CEMEX” site; and,

WHEREAS, attempts to resolve the overlap between the two GSAs have failed, thus creating the possibility of an “unmanaged” area in the Subbasin that would be subject to State intervention; and,

WHEREAS, to avoid State intervention, the Monterey County Board of Supervisors voted to become the GSA for the overlap area known as the “CEMEX” site and filed the appropriate notice with DWR for the overlap area pursuant to SGMA; and,

WHEREAS, the SVBGSA Board of Directors held a public hearing to consider adoption of the GSP on December 12, 2019; which was continued to the January 9, 2020 meeting; and,

WHEREAS on January 9, 2020, the SVBGSA Board of Directors closed the public hearing and adopted the 180/400 GSP excluding the area known as the “CEMEX” site consisting of 398 acres that the City of Marina Groundwater Sustainability Agency also has jurisdiction; and,

WHEREAS, it is now necessary and appropriate for the MCWD GSA Board of Directors to consider the adoption of the GSP for the Subbasin which also excludes the area known as the “CEMEX” size, and authorize and concur with its filing with DWR no later than the date required by SGMA;

NOW, THEREFORE, BE IT RESOLVED, by the Board of Directors of the Marina Coast Water District Groundwater Sustainability Agency, as follows:

1. The above Recitals are true and correct.
2. The Groundwater Sustainability Plan for the 180/400-foot aquifer subbasin of the Salinas Valley Groundwater Basin is adopted which excludes the area known as the “CEMEX” size.
3. The General Manager and Agency Counsel are hereby authorized and directed to take such other and further actions as may be necessary or appropriate to implement the intent and purposes of this resolution.

PASSED AND ADOPTED on January 29, 2020, by the Board of Directors of the Marina Coast Water District Groundwater Sustainability Agency by the following roll call vote:

Ayes: Directors \_\_\_\_\_

Noes: Directors \_\_\_\_\_

Absent: Directors \_\_\_\_\_

Abstained: Directors \_\_\_\_\_

\_\_\_\_\_  
Thomas P. Moore, President

ATTEST:

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

CERTIFICATE OF SECRETARY

The undersigned Secretary of the Board of the Marina Coast Water District Groundwater Sustainability Agency hereby certifies that the foregoing is a full, true and correct copy of Resolution No. 2020-GSA01 adopted January 29, 2020.

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

December 6, 2019

# Salinas Valley: 180/400-Foot Aquifer Subbasin Groundwater Sustainability Plan

## Executive Summary

*Prepared for:*

*Salinas Valley Basin Groundwater Sustainability Agency*

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## ES-1 INTRODUCTION AND AGENCY INFORMATION (GSP CHAPTERS 1 AND 2)

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The 2014 California Sustainable Groundwater Management Act (SGMA) requires that medium- and high-priority groundwater basins and subbasins develop Groundwater Sustainability Plans (GSPs) that outline how they will achieve groundwater sustainably in 20 years, and maintain sustainability for an additional 30 years. This GSP fulfills that requirement for the Salinas Valley - 180/400-Foot Aquifer Subbasin.

In 2017, local GSA-eligible entities formed the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to develop and implement the GSPs for the Salinas Valley. The SVBGSA is a Joint Powers Authority (JPA) with membership comprising the County of Monterey, Water Resources Agency of the County of Monterey (Monterey County Water Resources Agency, or MCWRA), City of Salinas, City of Soledad, City of Gonzales, City of King, Castroville Community Services District, and Monterey One Water. The SVBGSA is governed by an eleven-member Board of Directors, representing public and private groundwater interests throughout the Salinas Valley Groundwater Basin. In addition, an Advisory Committee ensures participation by, and input to, the Board of Directors by constituencies whose interests are not directly represented on the Board. The SVBGSA's activities are coordinated by a General Manager.

The Salinas Valley Groundwater Basin consists of nine subbasins, of which six fall entirely or partially under the SVBGSA's jurisdiction. One of the nine subbasins, the Seaside Subbasin, is adjudicated and not managed by the SVBGSA. Another two subbasins, the Paso Robles and Atascadero Subbasins, lie completely in San Luis Obispo County and are managed by other GSAs.

The SVBGSA developed this GSP for the 180/400-Foot Aquifer Subbasin (Subbasin) in concert with the GSPs for its five other Salinas Valley Subbasins: the Eastside Aquifer Subbasin (DWR subbasin number 3-004.02), the Forebay Aquifer Subbasin (DWR subbasin number 3-004.04), the Upper Valley Aquifer Subbasin (DWR subbasin number 3-004.05), the Langley Area Subbasin (DWR subbasin number 3-004.09) and the Monterey Subbasin (DWR subbasin number 3-004.10). Together, the six subbasin plans under the SVBGSA will be integrated into the Salinas Valley Integrated Groundwater Sustainability Plan.

This GSP covers all of the 84,400 acres of the 180/400-Foot Aquifer Subbasin, as shown in Figure 1. The Marina Groundwater Sustainability Agency (MGSA) has developed a GSP over a 372 acre parcel in the Subbasin. At the time of writing, there is overlap between the MGSA GSP and this GSP; however, SVBGSA is working to correct that overlap prior to finalizing this GSP. The GSP describes current groundwater conditions, develops a hydrogeologic conceptual model,

establishes a water budget, outlines local sustainable management criteria, and provides projects and programs for reaching sustainability in the Subbasin by 2040.

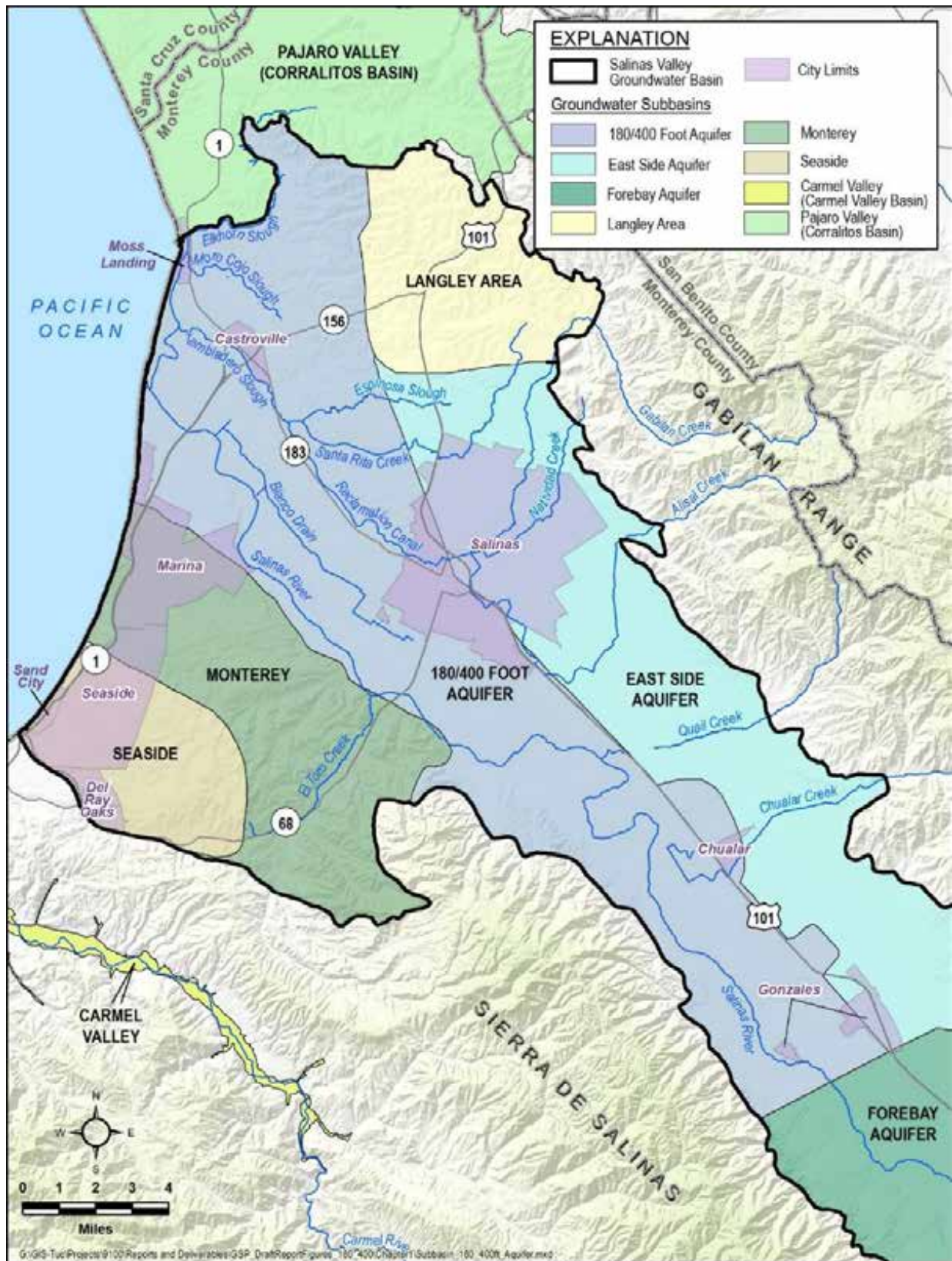


Figure 1. 180/400-Footer Aquifer Subbasin



## ES-2 DESCRIPTION OF PLAN AREA (GSP CHAPTER 3)

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The 180/400-Foot Aquifer Subbasin is a high-priority groundwater subbasin in northwestern Monterey County that includes the northern end of the Salinas River Valley. The Salinas River flows into the Subbasin from the south and discharges into Monterey Bay in the north. The majority of land in the Subbasin is used for agriculture, with lettuce, strawberries, and broccoli as the top three crops (Monterey County Agriculture Commissioner, 2018). The Subbasin contains the municipalities of Marina, Salinas, and Gonzales and the census-designated places of Castroville, Moss Landing, Elkhorn, Boronda, Spreckels, and Chualar.

Groundwater is the main water source in the Subbasin. The Salinas River and its tributaries provide limited surface water; and the Castroville Seawater Intrusion Project (CSIP) delivers a combination of groundwater, surface water, and recycled water from Monterey One Water to the coastal farmland surrounding Castroville. The primary water use sector is agriculture, which uses 85% of the water in the Subbasin. Most of the remaining water use is urban, with only minimal use by wetlands and native vegetation.

A significant number of existing groundwater and surface water monitoring programs active in the Subbasin will be directly incorporated into the GSP implementation. Ongoing monitoring programs include:

- CASGEM groundwater elevation monitoring
- Non-CASGEM groundwater elevation monitoring
- MCWRA's groundwater pumping annual reporting
- MCWRA's seawater intrusion monitoring
- Municipal, small water system, and agricultural groundwater quality monitoring
- Stream gauge measurements

## ES-3 HYDROGEOLOGIC CONCEPTUAL MODEL (GSP CHAPTER 4)

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Due to decades of extensive study and groundwater development, the structure and boundaries of the 180/400-Foot Aquifer Subbasin are relatively well-developed. The 180/400-Foot Subbasin is an alluvial basin with elevations that range from sea level at the coast to approximately 500 feet (NAVD88) along the Sierra de Salinas. Lateral boundaries between subbasins are determined in part by geologic structures and depositional changes that influence flow and interaction between basins and subbasins. The northern boundary of the 180/400-Foot Aquifer Subbasin follows the current course of Elkhorn Slough and corresponds to a paleo-drainage of the Salinas River (DWR, 2003) that limits groundwater flow between basins (Durbin, *et al.*, 1978). The boundary with the Langley Subbasin to the northeast is based on a topographic change from the valley floor to an elevated foothill area, but there is no hydraulic barrier to groundwater flow. To the east, hydraulic connectivity is restricted by depositional changes along the border with the Eastside Aquifer. To the southeast, there is hydraulic connectivity with the Forebay Subbasin. To the southwest, the boundary with the Monterey Subbasin is based on topographic rise that coincides with a buried trace of the Reliz fault, which may act as a groundwater flow barrier (Durbin *et al.* 1978); however, more data is needed to determine the extent of hydraulic connectivity. Finally, there is no hydraulic barrier between the 180/400-Foot Aquifer Subbasin and the Monterey Bay.

Vertically, the shallowest water-bearing sediments are not considered a principal aquifer because they are thin, laterally discontinuous, and a minor source of water. Groundwater in these shallow sediments is hydraulically connected to the Salinas River but poorly connected to the underlying productive principal aquifers – the 180-Foot, 400-Foot, and Deep Aquifers. The base of the shallow sediments is the Salinas Valley Aquitard, which overlies and confines the 180-Foot Aquifer. The 180-Foot Aquifer consists of interconnected sand and gravel beds that are 50 to 150 feet thick. Below the 180-Foot Aquifer, the 180/400-Foot Aquitard confines the 400-Foot Aquifer. The 400-Foot Aquifer is a relatively permeable horizon that is approximately 200 feet thick near Salinas, but variable throughout the Subbasin. Below the 400-Foot Aquifer the 400-Foot/Deep Aquitard, confines the Deep Aquifers, also referred to as the 900-Foot and 1500-Foot Aquifers. There are limited data available from the Deep Aquifers. The Subbasin does not have a well-defined base, and this GSP adopts the base of the Subbasin defined by the USGS (Durbin *et al.*, 1978).

Detailed aquifer property values (storativity, conductivity, and transmissivity) for each aquifer were not available at the time of GSP development, although estimates from calibrated groundwater models were available. The SVBGSA will fill this data gap during implementation. This GSP uses specific capacity data as a proxy for transmissivity data. The specific capacity data indicate that the 180-Foot Aquifer and the 400-Foot Aquifer are relatively transmissive aquifers with high well yields.

Natural groundwater recharge occurs through infiltration of surface water, deep percolation of excess applied irrigation water, and deep percolation of infiltrating precipitation. Recharge to the 180-Foot Aquifer is likely limited due to the low permeability of the Salinas Valley Aquitard. No mapped springs, seeps, or discharge to streams have been identified in the Subbasin. Some phreatophytes discharge groundwater through evapotranspiration in areas where the water table is sufficiently high.

The primary surface water body in the Subbasin is the Salinas River. Two reservoirs outside of the Subbasin, Lake Nacimiento and Lake San Antonio, control river flows and are important controls for managed aquifer recharge. Agricultural diversions have altered the Salinas River's hydrology, and the River no longer exhibits natural seasonal variation in flows.

## ES-4 GROUNDWATER CONDITIONS (GSP CHAPTER 5)

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General groundwater conditions in the Subbasin are described for current (after January 1, 2015) and historical conditions (before January 1, 2015), organized by DWR's six sustainability indicators.

- **Groundwater Elevations** – Groundwater hydrographs show a general decline in groundwater elevations in the 180/400-Foot Aquifer Subbasin. Groundwater elevations have been chronically lowered due to pumping and are lowest during higher irrigation seasons. The lowered groundwater elevations are the cause of seawater intrusion in both the 180-Foot and the 400-Foot Aquifers.
- **Change in Groundwater Storage** – This GSP defines change in usable groundwater storage as the annual average increase or decrease in groundwater that can be safely used for domestic, industrial, or agricultural purposes. Change in usable groundwater storage is the sum of change in storage determined from groundwater elevation changes and the change in storage due to seawater intrusion. For the 180/400-Foot Aquifer Subbasin, the historical average annual loss of storage is approximately 11,700 AF/yr.
- **Seawater Intrusion** – The 180-Foot and 400-Foot Aquifers have been subject to seawater intrusion for more than 70 years. MCWRA and others have implemented projects to slow seawater intrusion; however, it remains an ongoing threat. Seawater intrusion is less extensive in the 400-Foot Aquifer than in the 180-Foot Aquifer; however, between 2013 and 2017, the area impacted by intrusion in the 400-Foot Aquifer increased from approximately 12,500 acres to 18,000 acres. To date, seawater intrusion has not been reported in the Deep Aquifers.
- **Groundwater Quality** – Elevated nitrate concentrations in groundwater were locally present in the 1960s and significantly increased in 1970s and 1980s. In 2005, nitrate levels exceeding the primary maximum contaminant level (MCL) were found in 32% of public water supply samples in the Salinas Valley Groundwater Basin (USGS, 2005). In 2018, nitrate levels exceeded the primary MCL in 26% of On-Farm Domestic Wells and 21% of Irrigation Supply Wells in the Subbasin (CCRWQCB, 2018), a majority of which originated from irrigated agricultural waste discharges. Other constituents found at levels of concern for either potable or irrigation uses include 1,2,3-trichloropropane, arsenic, cadmium, chloride, fluoride, hexavalent chromium, iron, manganese, methyl tert-butyl ether, perchlorate, total dissolved solids, and thallium.
- **Subsidence** – No measurable subsidence has been recorded anywhere in the Subbasin between June 2015 and June 2018.
- **Interconnected Surface Water** – Although the Salinas Valley Aquitard inhibits hydraulic connectivity between the 180/400-Foot Aquifer and Salinas River,

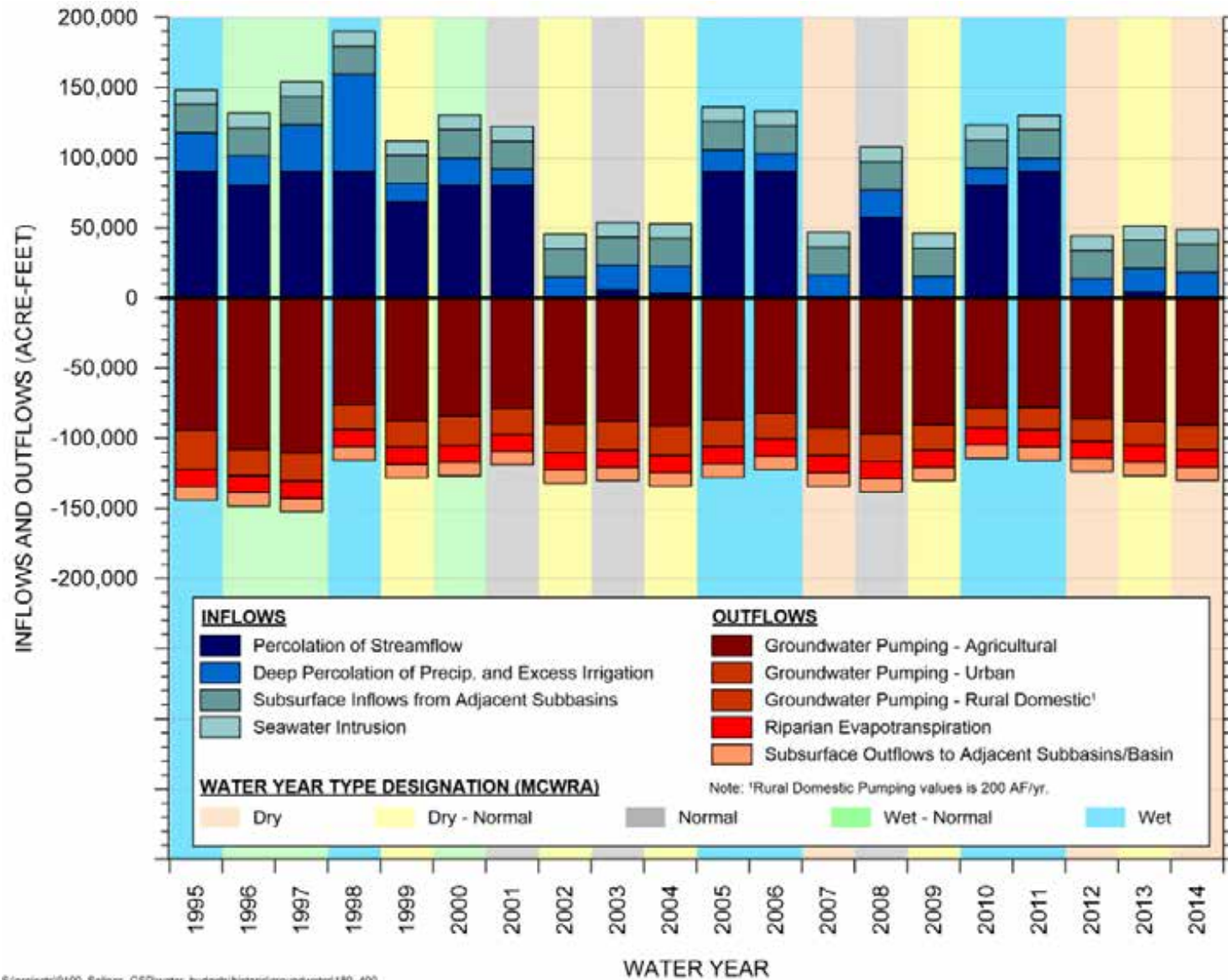
interconnection may exist in the two limited areas where groundwater is less than 20 feet below ground surface: near the southern boundary where the Salinas River enters the Subbasin and northern boundary where the River discharges into Monterey Bay. While this analysis is based on best available data, it contains significant uncertainty and data gaps that will be filled during GSP implementation.

## ES-5 WATER BUDGETS (GSP CHAPTER 6)

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Water budgets provide an accounting and assessment of the total annual volume of surface water and groundwater entering and leaving the Subbasin. This GSP presents three water budgets – historical (1995-2014), current (2015-2017), and projected. A surface water budget and a groundwater budget are presented for each time period. The groundwater budget is the budget for the entire groundwater system, including the shallow sediments and principal aquifers. It contains aggregate numbers for the Subbasin and is not differentiated spatially or by aquifer.

**Historical and Current Water Budgets** – Historical and current water budgets use best available data and tools to determine the water budget components; however, no groundwater model was available at the time of writing to produce an integrated historical and current water budget. Data include surface flow gauges, calculations from historical studies, precipitation records and estimated subsurface flows based on flow directions and hydraulic gradients. In 2020, the USGS will release its Salinas Valley Integrated Hydrologic Model (SVIHM). The historical and current water budgets will be updated to reflect the SVIHM output when it is released. Figure 2 summarizes annual average components of the historical groundwater water budget.



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Figure 2. Annual Average Historical Total Water Budget

The average loss in storage due to groundwater level fluctuations during the historical and current periods are approximately 400 AF/yr. and 600 AF/yr., respectively. Additionally, seawater intrusion decreases usable water by 10,500 AF/yr. To estimate the uncertainty of the budgets, the difference between the storage calculated based on groundwater budgets and storage estimated based on groundwater levels was calculated. Table 1 shows the main components of the historical and current groundwater budgets; and calculates the percent uncertainty for each budget. The relatively high percent uncertainty emphasizes the need to adopt the modeled historical groundwater budget when the historical SVIHM becomes available.

Table 1. Estimated Historical and Current Groundwater Budgets and Uncertainties

Groundwater Component	Historical Budget	Current Budget
Average Annual Inflow (AF/yr.)	89,900	60,400
Average Annual Outflow (AF/yr.)	129,800	130,800
Average Annual Change in Storage (AF/yr.)	-39,900	-70,400
Seawater Intrusion (AF/yr.)	-10,500	-10,500
Average Annual Change in Storage Based on Inflows and Outflows (AF/yr.)	-29,400	-59,900
Estimated Average Annual Change in Storage (AF/yr.) Based on MCWRA Water Level Measurements	-400	-600
Difference Between Budget and Estimated (AF/yr.)	-29,000	-59,300
Difference Between Budget and Estimated (% of Outflow)	22%	45%

Note: although seawater intrusion is identified as an inflow to quantify the overall basin water budget, it is not considered part of the sustainable yield.

The sustainable yield of the Subbasin is an estimate of the quantity of groundwater that can be pumped on a long-term average annual basis without causing a net decrease in storage. Sustainable yield is calculated as total pumping minus loss of storage. Based on the water budget, the historical sustainable yield of the Subbasin was 97,400 AF/yr., which is 10% less than the average annual pumping rate.

**Projected Water Budgets** – The projected water budgets are based on output from the operational version of the SVIHM that was provided by USGS. Because the projected water budgets are derived from a draft model, but the current and water budgets are not, the water budgets are not directly comparable due to differing analytical approaches. Two projected water budgets, one for 2030 and one for 2070, are developed from the draft operational SVIHM, which include climate change and sea level rise estimates. DWR’s climate change factors were adopted to account for 2030 and 2070 projected climate change. The projected water budgets are used to establish how sustainability will be achieved in the 20-year implementation period and



maintained over the 50-year planning and implementation horizon. The projected sustainable yield is the long-term management number once all undesirable results have been addressed. It is the sustainable yield that will continue to avoid all six undesirable results at that point, but is not the amount of pumping needed to stop undesirable results, which may be substantially less.

Table 2 lists the groundwater inflow and outflow components derived from the SVIHM and calculates the percent error. The percent error from the modeled, projected water budgets is substantially less than the percent error from the calculated historical or current water budgets. This demonstrates the utility of using a groundwater model for estimating water budgets.

Table 2. Average Annual Groundwater Budget and Groundwater Storage Change for Future Projections

GROUNDWATER BUDGET	Projected Climate Change Timeframe	
	2030 (AF/yr.)	2070 (AF/yr.)
Inflows		
Stream leakage	71,500	71,700
Deep Percolation	76,300	81,800
Interflow in Wells	20,400	20,900
Underflow from Monterey Subbasin	10,900	11,500
Underflow from East Side Subbasin	9,800	10,400
Underflow from Forebay Subbasin	5,300	5,300
Underflow from Langley Subbasin	1,800	1,800
Mountain front recharge	2,600	2,700
Underflow from Pajaro Valley Basin	100	100
Net mountain front recharge	1,700	1,800
Outflows		
Pumping	135,800	141,600
Drain Flows	7,100	8,000
Flow to Streams	1,800	1,900
Groundwater ET	35,100	36,700
Underflow to Ocean	800	700
Underflow to Monterey Subbasin	5,400	5,300
Underflow to East Side Subbasin	17,000	16,600
Underflow to Forebay Subbasin	300	300
Underflow to Langley Subbasin	100	100
Underflow to Upland Areas	900	900
Underflow to Pajaro	1,000	1,000
Groundwater Storage		
Groundwater Level Change	4,600	4,700
Seawater Intrusion	-3,500	-3,900
Total	1,100	800

	Projected Climate Change Timeframe	
Total Inflows	198,700	206,200
Total Outflows	-205,300	-213,100
Change in Storage	-6,600	-6,900
% Error	0.74%	0.81%

Based on these projections, pumping will need to be about 7% lower than projected pumping rates to meet the long-term sustainable yield. The projected water budgets can be interpreted as most likely future conditions; however, there is inherent uncertainty associated with using climate scenarios.

## ES-6 MONITORING NETWORKS (GSP CHAPTER 7)

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Monitoring networks are developed to promote the collection of data of sufficient quality, frequency, and distribution to characterize groundwater and related surface water conditions in the Subbasin and to evaluate changing conditions that occur as the Plan is implemented. The SVBGSA developed monitoring networks for each of the six sustainability indicators, based on existing monitoring sites. For some sustainability indicators, it is necessary to expand existing monitoring systems. Filling data gaps and developing more extensive and complete monitoring systems will improve the SVBGSA's ability to demonstrate sustainability and refine the hydrogeologic conceptual model.

- **Groundwater Elevations** are measured in designated monitoring wells that form a network sufficient to demonstrate groundwater occurrence, flow directions, and hydraulic gradients between principal aquifers and surface water features. The SVBGSA will build upon the existing California Statewide Groundwater Elevation Monitoring (CASGEM) network of wells, which have been regularly monitored by MCWRA.
- **Groundwater Storage** is measured by the annual amount of groundwater pumping. Monitoring includes municipal groundwater users and small water system pumping available from the State's Drinking Water Information Clearinghouse, agricultural pumping reported to the MCWRA and estimated using Monterey County crop data, and domestic pumping estimated based on number of domestic users.
- **Seawater Intrusion** is evaluated based on chloride concentration measured at a specific network of monitoring wells. Well data are collected and maintained by MCWRA, who produces chloride isocontour maps to provide an indication of the extent of seawater intrusion.
- **Groundwater Quality Distribution and Trends** are evaluated by monitoring groundwater quality at a network of existing water supply wells. Drinking water constituents of concern will be assessed at public water supply wells. Agricultural constituents of concern will be assessed at agricultural supply wells that are monitored through the Irrigated Lands Regulatory Program.
- **Land Subsidence** is assessed based on the land subsidence data DWR has collected with InSAR satellite data.
- **Interconnected Surface Water** depletion rates are estimated through modeling, and checked with shallow wells near areas of interconnection. Given the extremely limited monitoring data, the SVBGSA plans to install shallow wells to establish the level of

interconnection of the Salinas River with the underlying shallow sediments. The SVIHM will be used to assess the rate of streamflow exchange between the two systems.

The SVBGSA has developed a Data Management System (DMS) to store, review, and upload data collected as part of GSP development and implementation. The DMS includes a publicly accessible web-map hosted on the SVBGSA website; accessed at <https://svbgsa.org/gsp-web-map-and-data/>.

## ES-7 SUSTAINABLE MANAGEMENT CRITERIA (GSP CHAPTER 8)

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Sustainable Management Criteria (SMC) define the conditions that constitute sustainable groundwater management. A description of the SMC for each of the six sustainability indicators are include in Table 3. Each sustainability indicator includes:

- **Minimum thresholds** –specific, quantifiable values for each sustainability indicator used to define undesirable results (*i.e. indicators of unreasonable conditions that should not be exceeded*)
- **Measurable objectives** –specific, quantifiable goals that provide operational flexibility above the minimum thresholds (*i.e. goals the GSP is designed to achieve*)
- **Undesirable results** – Quantitative combinations of minimum thresholds

These SMC define the Subbasin’s future conditions and commit the GSA to actions that will meet these objectives.

Table 3. Sustainable Management Criteria Summary

<i>Sustainability Indicator</i>	<i>Measurable Objective</i>	<i>Minimum Threshold</i>	<i>Undesirable Result</i>
Chronic lowering of groundwater levels	Set to 2003 groundwater elevations	Set to 1 foot above 2015 groundwater elevations	Over the course of any one year, no more than 15% of groundwater elevation minimum thresholds shall be exceeded in any single aquifer and no one well shall exceed its minimum threshold for more than two consecutive years. Allows two exceedances in the 180-Foot aquifer and two exceedances in the 400-Foot aquifer.
Reduction in groundwater storage	Pumping set to the estimated long-term future sustainable yield of 112,000 AF/yr. for the entire 180/400-Foot Aquifer Subbasin (Minimum thresholds and measurable objectives are identical)		During average hydrogeologic conditions, and as a long-term average over all hydrogeologic conditions, the total groundwater pumping shall not exceed the minimum threshold.
Seawater intrusion	The line defined by Highway 1 for the 180-Foot, 400-Foot, and Deep Aquifers	The 2017 extent of 500 mg/L chloride isocontour for the 180- and 400-Foot Aquifers, and the line defined by Highway 1 for the Deep Aquifers	On average in any one year there shall be no mapped seawater intrusion beyond the 2017 extent of the 500 mg/L chloride isocontour.
Degraded groundwater quality	Minimum threshold is zero additional exceedances of groundwater quality constituents of concern known to exist in the subbasin above drinking water or agricultural limits. (Minimum thresholds and measurable objectives are identical)		On average during any one year, no groundwater quality minimum threshold shall be exceeded as a direct result of projects or management actions taken as part of GSP implementation.
Subsidence	Minimum threshold is zero net long-term subsidence. (Minimum thresholds and measurable objectives are identical)		In any one year, there will be zero exceedances of the groundwater elevation proxy minimum thresholds based on average groundwater levels.
Depletion of interconnected surface water	Set to the estimated average historical rate of stream depletion, adjusted for climate change. This is currently estimated to be 69,700 acre-feet per year for future conditions including climate change. (Minimum thresholds and measurable objectives are identical)		During average hydrogeologic conditions, and as a long-term average over all hydrogeologic conditions, the depletion of interconnected surface waters shall not exceed the minimum threshold.

## ES-8 PROJECTS AND MANAGEMENT ACTIONS (GSP CHAPTER 9)

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This GSP identifies projects and actions that provide stakeholders with options to reach sustainability. The set of projects and actions achieve the following objectives:

- Achieving groundwater sustainability by meeting Subbasin-specific SMC by 2040
- Creating equity between who benefits from projects and who pays for projects
- Establishing a source of funding for project implementation
- Providing incentives to constrain groundwater pumping within limits

The projects and actions included in the GSP are defined as a toolbox of options. The GSP demonstrates that sufficient options exist to reach sustainability. Specific details need to be developed for stakeholders to determine which projects and actions to implement. The projects and management actions described in this GSP constitute an integrated management program for the entire Salinas Valley Groundwater Basin.

**Water Charges Framework** – This GSP proposes a water charges framework that provides incentives to constrain groundwater pumping to the sustainable yield while generating funds for project implementation. The framework creates sustainable pumping allowances, charging a Tier 1 Sustainable Pumping Charge for pro-rata shares of sustainable yield, Tier 2 Transitional Pumping Charge to help users transition to pumping allowances, and higher Tier 3 Supplementary Pumping Charge for using more water. Pumping allowances are not water rights, but would be established to incentivize pumping reductions.

**Management Actions** – This GSP identifies six management actions that are the most reliable, implementable, cost-effective, and acceptable to stakeholders. The six management actions include:

- Agricultural land and pumping allowance retirement
- Outreach and education for agricultural best management practices
- Reservoir reoperation
- Restrict pumping in CSIP area
- Support and strengthen Monterey County restrictions on additional wells in the Deep Aquifers
- Establish a seawater intrusion technical working group

**Specific Projects Prioritized for Integrated Management of the Salinas Valley** – This GSP identifies nine priority projects, categorized below by type of project. A preliminary ranking

based on cost effectiveness is noted after each project. These rankings may change after project details are refined during GSP implementation.

***Project Type 1: In-lieu recharge through direct delivery of water to replace groundwater pumping*** – projects that use available water supplies for irrigation in lieu of groundwater

- Optimize CSIP Operations (ranked #2 in terms of cost effectiveness)
- Modify Monterey One Water Recycled Water Plant (ranked #3 in terms of cost effectiveness)
- Expand Area Served by CSIP (ranked #4 in terms of cost effectiveness)
- Maximize Existing SRDF Diversion (ranked #5 in terms of cost effectiveness)

***Project Type 2: Direct recharge through recharge basins or wells (also commonly referred to as Managed Aquifer Recharge)*** – projects that fill large artificial ponds with water to percolate from the basin into the groundwater system or construct injection wells

- 11043 Diversion Facilities Phase I: Chualar (ranked #7 in terms of cost effectiveness)
- 11043 Diversion Facilities Phase II: Soledad (ranked #8 in terms of cost effectiveness)
- SRDF Winter Flow Injection (ranked #9 in terms of cost effectiveness)

***Project Type 3: Indirect recharge through decreased evapotranspiration or increased infiltration*** – projects to remove invasive species from riparian corridors to decrease evapotranspiration or to capture stormwater to increase percolation

- Invasive Species Eradication (ranked #1 in terms of cost effectiveness)

***Project Type 4: Hydraulic barrier to control seawater intrusion*** – projects to construct a hydraulic barrier consisting of a series of wells drilled a short distance inland, aligned parallel to the coast. It could be operated as a recharge barrier that injects water into the wells, or an extraction barrier that pumps water from wells. Both approaches would create a hydraulic barrier to seawater intrusion

- Seawater Intrusion Pumping Barrier (ranked #6 in terms of cost effectiveness)

Additionally, the GSA identified a number of alternative projects that could help achieve sustainability if needed, including desalinizing water from the seawater barrier extraction wells, recharging local runoff from Eastside Range, injecting winter potable reuse water, and seasonally storing water in 180/400-Foot Aquifer.

**Other Groundwater Management Activities** – Although not specifically funded or managed by the SVBGSA, a number of associated groundwater management activities will be promoted and encouraged by the SVBGSA as part of general good groundwater management practices. These include: promoting agricultural best management practices, continuing urban and rural



residential conservation, promoting stormwater capture, supporting well destruction policies, and watershed protection and management.

**Mitigation of Overdraft** – The water charges framework is specifically designed to promote pumping reductions. Should adequate pumping reductions not be achieved to mitigate all overdraft, funds collected through the water charges framework will support recharge of imported water, either through direct recharge or in-lieu means. Potential projects to mitigate overdraft include: invasive species eradication, optimizing CSIP, modifying Monterey One Water Plant, expanding CSIP area, maximizing the existing SRDF, a seawater intrusion barrier, and SRDF winter flows.

## ES-9 IMPLEMENTATION (GSP CHAPTER 10)

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This GSP lays out a roadmap for addressing all of the activities needed for GSP implementation between 2020 and 2040, focusing mainly on the activities between 2020 and 2025. Implementing this GSP requires the following formative activities:

- **Monitoring and Reporting** – This activity will begin immediately following adoption of the GSP and will rely primarily on existing monitoring programs. Monitoring data will be stored in the DMS and will be routinely evaluated to ensure progress is being made toward sustainability and to identify whether undesirable results are occurring. The GSA will submit to DWR and make publicly available: annual reports, Five-Year GSP Assessment Reports, and GSP Periodic Evaluations and Assessment.
- **Refining and Implementing the Water Charges Framework** – Long-term GSP implementation will be funded through the water charges framework described in this GSP, or in combination with other financing methods where appropriate. Details of the framework for will be developed during the first three years of this GSP's implementation through a facilitated process.
- **Addressing Identified Data Gaps** – An aquifer properties assessment and deep aquifers investigation will be conducted to address key data gaps.
- **Expanding and Improving the Existing Monitoring Networks** – Monitoring networks will be expanded and enhanced to provide more robust data on the sustainability indicators.
- **Updating the Data Management System** – As new information is collected during monitoring and provided by local stakeholders, the GSA will update the DMS and make publicly available via the web application.
- **Implementing the New Upcoming USGS Groundwater Model for the Salinas Valley (SVIHM)** – The USGS is currently working on revising and calibrating the SVIHM. When available, it will be used to revisit water budgets, update estimated sustainable yield, develop numerical minimum thresholds for interconnected surface water depletion, and more rigorously evaluate benefits of projects and management actions.
- **Refining and Implementing Projects and Management Actions** – The SVBGSA will refine projects and actions during the first three years of implementation. These projects and actions depend in part on the five subbasins in the Valley that will not complete GSPs until January 2022.

The SVBGSA estimates that planned activities will cost \$11,406,100 over the first five years of implementation (an estimated \$2,281,220 per year). Of this, \$1,783,500 are costs directly attributable to the 180/400-Foot Aquifer Subbasin and \$9,622,600 are Valley-wide costs. These

costs include routine administrative operations, public outreach, supplemental hydrogeologic investigations to address data gaps, improvements to the monitoring networks (including installation of new monitoring wells), annual monitoring and reporting of sustainability conditions, and early planning efforts.

Implementing the 180/400-Foot Aquifer Subbasin GSP must be integrated with the implementation of the five other GSPs in the Salinas Valley. The general implementation schedule refines details of the water charges framework, the sustainability projects, and the management actions during the first three years of implementation as the five other subbasin GSPs are produced. This will ensure the 180/400-Foot Aquifer Subbasin GSP is implemented in coordination with the other Valley subbasins, while at the same time moving ahead with negotiating implementation details.

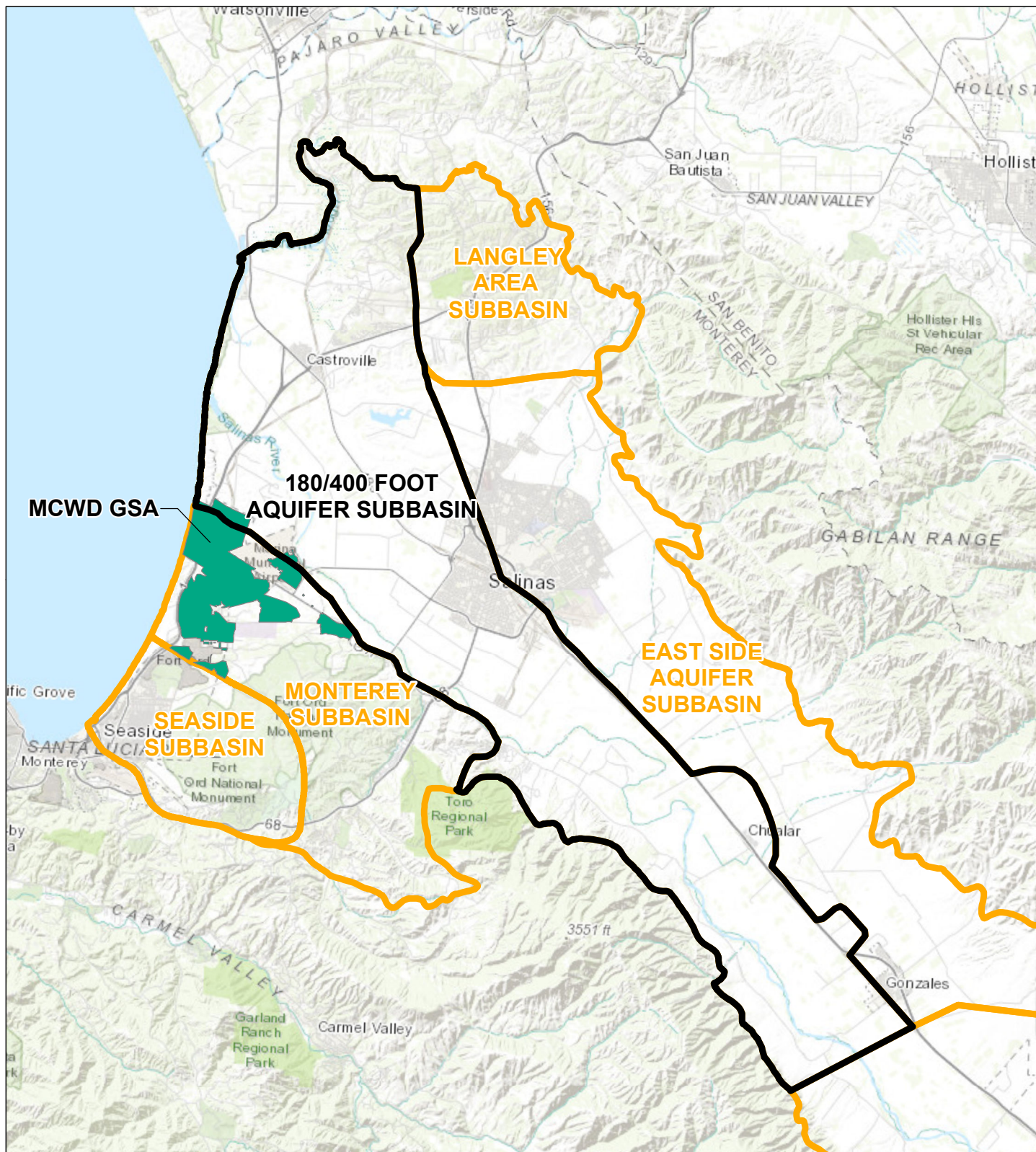
## ES-10 PUBLIC OUTREACH (GSP CHAPTER 11)

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The SVBGSA designed all phases of SGMA implementation to be open collaborative processes with active stakeholder engagement that allow stakeholders and public participants opportunities to provide input and to influence the planning and development process. The four main phases consist of:

- **GSA Formation and Coordination** – from 2015-2017, local agencies and stakeholders worked with the Consensus Building Institute to facilitate the formation of the SVBGSA.
- **GSP Preparation and Submission** – starting in 2017, the GSA developed this GSP and will continue to develop the five other subbasin GSPs through the January 2022 deadline.
- **GSP Review and Evaluation** – the GSA engaged in a public review process of the full draft prior to submission, giving stakeholders an opportunity to provide feedback and comments, and DWR will also give stakeholders a 60-day comment period after submission.
- **Implementation and Reporting** – following submission of the GSP to DWR, the SVBGSA will begin implementation efforts to reach sustainability within the basin.

Public participation is supported by the development of an interactive website that allows access to all planning and meeting materials, data sets, and meeting notifications. The website can be accessed at: <https://svbgsa.org>.



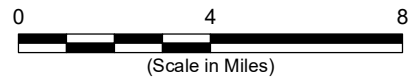
Path: X:\B60094\Maps\2019\11\Fig1\_MCWGSA.mxd

**Legend**

- MCWD GSA
- Groundwater Basin**
- 180/400 Foot Aquifer Subbasin
- Other Groundwater Subbasin within Salinas Valley Basin

**Abbreviations**

- DWR = Department of Water Resources
- MCWD = Marina Coast Water District
- GSA = Groundwater Sustainability Agency



**Notes**

1. All locations are approximate.

**Sources**

1. Basemap layers obtained from ESRI.

**DRAFT**

**MCWD GSA**

Marina Coast Water District  
 Marina, CA  
 December 2019  
 EKI B60094.03



**Figure 1**

November 21, 2018

**MEMORANDUM**

**To:** Gary Peterson, Salinas Valley Basin Groundwater Sustainability Agency  
Derrick Williams, P.G., C.Hg., Montgomery & Associates

**From:** Keith Van Der Maaten, P.E., Marina Coast Water District  
Patrick Breen, Marina Coast Water District  
Vera Nelson, P.E., EKI Environment and Water, Inc.  
Tina Wang, P.E., EKI Environment and Water, Inc.

**Subject: Preliminary Comments Regarding Salinas Valley Basin Groundwater Sustainability Agency Draft Groundwater Sustainability Plan Chapters 1 through 3 (EKI B60094.03)**

The Marina Coast Water District Groundwater Sustainability Agency (MCWD GSA) prepared the following preliminary comments on the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) draft 180/400 Foot Aquifer Subbasin and Salinas Valley Integrated Groundwater Sustainability Plans (GSPs) Chapters 1 through 3 (“Draft Chapters”), dated October 2018.

We understand that SVBGSA is preparing a revised version of the Draft Chapters for the 180/400 Foot Aquifer Subbasin for the Board Meeting on December 13th. Comments received by the week of November 19 will be considered for incorporation in the revised draft.

These preliminary comments are for SVBGSA’s consideration and incorporation into its revised version of Draft Chapters for the December 13th Board Meeting.



**PRELIMINARY COMMENTS FOR DRAFT 180/400 FOOT AQUIFER SUBBASIN GSP, CHAPTERS 1 – 3**

<b>Page/Section</b>	<b>Comment</b>
1, last ¶	GSP developed with cooperation with MCWD. The word “coordination” needs to be substituted for “cooperation”.
Top of p. 2	Need to add City of Marina to list.
4	Reword the 2 <sup>nd</sup> sentence to read, “None of these three GSAs are exclusive GSAs for the entire Subbasin; however, MCWD is an exclusive GSA for that portion of the Subbasin within its jurisdictional boundaries.”
6, § 2.1	Recommend including contact and website information for each agency, similar to how they are presented in the SVIGSP.
8, §2.3.1.2	Reword the last sentence to read, “MCWD is an exclusive GSA for a portion of the Subbasin. MCWD also has existing rights as a county water district to manage groundwater within its service areas.”
10, §3.1, 2 <sup>nd</sup> ¶	The City of Marina needs to be added to the sentence: “The Subbasin contains the municipalities of ....”
10, §3.2, 2 <sup>nd</sup> ¶	2 <sup>nd</sup> sentence: The reference should be to Figure 2-1, not Figure 3-1.
11, Fig. 3-1	The Marina city limits need to be shown on the map.
13, §3.3.1	Add the following to the end of the paragraph: “Within the former Fort Ord, Marina Coast Water District is the exclusive water purveyor to all non-Federal lands and to the Army for all Army and Federal facilities within the former Fort Ord. By a 2001 deed from the Army through the Fort Ord Reuse Authority, Marina Coast Water District owes all of the water infrastructure within the former Fort Ord.”
13, §3.3.4	Amend the entire paragraph as follows: “The cities of Salinas, Gonzales, and Marina have water management authority in their incorporated areas. The Castroville Community Service District provides water and sewer collection services in the town of Castroville. The Marina Coast Water District provides water and sewer collection services within its jurisdictional boundaries and within its Ord Community service area, which consists of the former Fort Ord. As a county water district, MCWD has water management authority over those areas. MCWD has filed an application with LAFCO to include all of the Ord Community service parcels that currently receive potable water or that have received final land use development approvals by the applicable land use jurisdiction. Marina Coast Water District is an exclusive GSA for a small portion of the 180/400-Foot Aquifer Subbasin. The jurisdictional boundaries of these areas are shown on Figure 3-4.”
14, Fig. 3-3	The area shown on the map as Federal Jurisdiction is now within the City of Marina.
19, Fig. 3-6	The map needs to show the 180/400 Subbasin areas within the Marina City Limits that are dependent on groundwater.

Page/Section	Comment
25-30, §3.6	Please provide references for existing monitoring programs, such as monitoring plans and monitoring program websites.
27, §3.6.3.1	It states that the MCWRA monitors 121 “monitoring” wells located in the 180/400 Subbasin. Are the location and depths of these wells known? If so, then their locations and depths (but not well owner’s names) should be included in the technical chapters .
28, §3.6.3.2	Add the following fourth bullet: “Required CalAm and MCWRA monitoring wells for CalAm’s proposed source wells for the Monterey Peninsula Water Supply Project (MPWSP).”
28, §3.6.3.2	Please state how many of the USGS GAMA wells are environmental monitoring wells, irrigation wells, and public water supply wells.
36, §3.7.3.2	<p>Substitute along the following lines for:</p> <p><b>3.7.3.2 Marina Coast Water District Urban Water Management Plan [180/400]</b></p> <p><b>3.7.3.3 Marina Coast Water District Urban Water Management Plan [Valley-wide]</b></p> <p>Marina Coast Water District (MCWD), a county water district, was formed in 1960. Today MCWD serves municipal and industrial water uses within the City of Marina and the former Fort Ord. Pursuant to the 1996 Marina Area Lands Annexation Agreement (Annexation Agreement and Groundwater Mitigation Framework for Marina Area Lands dated March 1996), MCWRA allocated to MCWD the right to 3,020 AFY of potable groundwater. Under the 1993 Fort Ord Annexation Agreement (Agreement concerning the Annexation of Fort Ord into Zones 2 and 2A of the MCWRA dated September 21, 1993), MCWRA allocated to the Army the right to 6,600 AFY of potable groundwater. In 2000, the Army entered into an exclusive contract with MCWD to meet all potable water demands by the Army and the BLM within the former Fort Ord and authorized MCWD to use the Army’s reserved groundwater rights to meet those demands. In October 2001, the U.S. Army transferred to the Fort Ord Reuse Authority (FORA) and FORA in turn transferred to MCWD title to all of the Army’s then existing water and sewer infrastructure and the 6,600 AFY of potable groundwater, except for 1,577 AFY reserved by the Army to meet Federal water demands within the former Fort Ord. In 2007, the California Department of Public Health granted MCWD’s request to combine the Central Marina and Ord Community services areas into one combined water system permit. Consequently, MCWD owns or manages 9,620 AFY of potable groundwater rights to serve its combined Central Marina and Ord Community service areas.</p>



Page/Section	Comment
	<p>As a retail water service provider, MCWD is required to periodically prepare an UWMP. The 2010 UWMP was updated in 2015 (Schaff &amp; Wheeler, 2016). [Continue with the rest of the existing paragraph,]</p> <p>[Move the existing 3<sup>rd</sup> ¶ to here.] The MCWD UWMP includes a number of demand management measures including:</p> <p>[Continue with the existing bullet list]</p> <p>MCWD’s implementation of demand management measures resulted in MCWD receiving state-wide recognition of its water conservation achievements during the last drought.</p> <p>MCWD currently relies solely on groundwater. However, in 2019, MCWD will receive the first 600 AFY of advanced treated water from the Pure Water Monterey (PWM) Project out of MCWD’s total 1,427 AFY PWM entitlement. In addition, MCWD is working with FORA and Monterey One Water (M1W) to identify new water sources (including recycled water, brackish water desalination, stormwater flows, water conservation) to develop an additional 927 AFY for the Fort Ord Base Reuse Plan.</p> <p>MCWD is also a key water transmission hub owner connecting the Central Marina and North Ord areas with the yet to be developed South Ord area, which includes portions of the Cities of Seaside, Del Rey Oaks, and Monterey. MCWD owns the potable water transmission pipeline, which MCWD will use to serve the South Ord area. The pipeline is currently being used by CalAm for its Carmel River ASR Project to convey injection water and to convey recovered water to its Monterey District, but MCWD has the first priority of use as the pipeline’s owner. The pipeline will also be used to convey recovered PWM water for direct use in CalAm’s Monterey District. MCWD also owns the new 10-mile transmission pipeline for the PWM Project, which will deliver advanced treated water to MCWD recycled water customers and to the PWM injection wells in the Seaside Groundwater Basin.</p>
37, §3.8.1	Insert the new §3.8.1, District Act/Agency Act – Pre-SGMA Foundation of Groundwater Management within Monterey County, following this table and renumber other subsections.

Page/Section	Comment
38, §3.8.3	Add to the end of the 2 <sup>nd</sup> ¶: “The SWRCB’s Sources of Drinking Water Policy adopted in Resolution No. 88-63 and incorporated in its entirety in the CCRWQCB’s Basin Plan provides that water with water quality equal to or less than 3,000 mg/L TDS is considered suitable or potentially suitable for drinking water beneficial uses.” Add to the end of the 3 <sup>rd</sup> ¶: “and the prevention or repelling of seawater intrusion.”
39, §3.9	Substitute the revised Section 3.9, Conjunctive Use Programs, following this table.
40-51, §3.10	Please provide references and document dates for land use plans discussed.
40-51, §3.10	Please provide a discussion of FORA’s Base Reuse Plan as a land use plan in the GSP plan area, per § 354.8 (f) of GSP Regulations.
49, §3.10.4	Please ask City of Marina to review this discussion of its General Plan. The City should also include a discussion about any Local Coastal Plan restrictions on new groundwater wells.
49, §3.10.5	<p>A description of the existing prohibitions and restrictions on well drilling within the 180/400 Foot Aquifer Subbasin needs to be added, including the County’s 2018 Interim Ordinance, the County’s Well Prohibition in Fort Ord (Ordinance No. 04011), MCWD’s Well Ordinance (Municipal Code Chapter 3.32), and ordinances by other municipalities in the 180/400 Foot Aquifer Subbasin, if any. Check the Monterey County General Plan on additional restrictions on drilling new wells within the Coastal Zone.</p> <p>Possible placeholder description of the County’s Moratorium:                      County Moratorium on Accepting and Processing New Well Permits. On May 22, 2018, the Monterey County Board of Supervisors adopted Ordinance No. 5302 pursuant to Government Code Section 65858. The ordinance imposed a moratorium on the County Health Department accepting and processing new well permits; it was not a moratorium on additional groundwater pumping from existing wells. The ordinance was an Interim Urgency Ordinance, which took effect immediately upon adoption. The ordinance prohibits the acceptance or processing of any applications for new wells in the defined “Area of Impact” with stated exceptions, including municipal wells and replacement wells. Pursuant to Section 65858, the ordinance was originally only effective for 45 days to July 5, 2018, but at the June 26 Board meeting, the Board of Supervisors on a 4-1 vote extended the ordinance to May 21, 2020, by adoption of Ordinance No. 5303. During the moratorium, the County has indicated that it will conduct studies. [Insert map of “Area of Impact.”]</p>

[Comment: Insert the following as a new Subsection 3.8.1 and renumber following subsections. Note that we are seeking a copy of the Final Allocation Formula Information Report from the Clerk to the Board of Supervisors and will provide to SVBGSA once received.]

### **3.8.1. District Act/Agency Act – Pre-SGMA Foundation of Groundwater Management within Monterey County**

The Monterey County Flood Control and Water Conservation District Act (District Act) was enacted by Chapter 699 of the Statutes of 1947. The original District Act provided for the establishment of zones to finance projects and to take actions to prevent or deter seawater intrusion. The Zone 2 benefit assessment zone was established to fund the construction of Nacimiento Reservoir, construction of which was completed in 1957. The Zone 2A benefit assessment zone was established to fund the construction of San Antonio Reservoir, construction of which was completed in 1967.

In 1990, the District Act was repealed and replaced by the existing Monterey County Water Resources Agency Act (Agency Act); however, much of the District Act was carried over into the Agency Act. For example, Agency Act §52.21 (or §21)<sup>1</sup> quoted below in Section 3.8.2 and Agency Act §22, Action to prevent or deter intrusion of underground seawater, are based upon similar provisions in the District Act.

Water Allocation Formula: Agency Act §45 was added and, in 1991, was amended to read as follows:

#### Section 45. Water allocation formula

The board shall appoint a task force to recommend a water allocation formula for urban and agricultural areas in the county that are not within the jurisdiction of the Monterey Peninsula Water Management District and the Pajaro Valley Water Management Agency. An urban allocation formula is necessary to preserve agricultural access to an adequate water supply and to preserve agriculture as a mainstay of the Salinas Valley economy. The task force shall make the recommendation to the agency on or before January 1, 1992.

Board of Supervisors Resolution 91-476 adopted September 24, 1991, directed MCWRA staff to prepare information for a water allocation formula for Zone 2 and 2A and bring it back to the Board on or before January 1, 1992, and further directed MCWRA staff to prepare an emergency

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<sup>1</sup> MCWRA cites to sections of the Agency Act as § 52.\_\_\_\_. This is apparently an editorial carryover from when the District Act was referred to as “Chapter 52.” Deering’s California Codes cites to the Agency Act as Water – Uncodified Act 600.

allocation ordinance for Zones 2 and 2A for consideration by the Board no later than April 1, 1992. [Comment: Please insert MCWRA colored map of Zones 2 and 2A.]

On page 9 of the January 1992 draft, entitled “Revised Draft Allocation Formula Information,” the report states:

The Pressure Area is recharged primarily from the unconfined aquifer beneath the Forebay Area. Therefore, streambed percolation and deep percolation of excess irrigation water account for relatively minimal groundwater recharge to the main water supplying aquifers in the Pressure Area.

As stated in Section 3.1, MCWRA’s Pressure Subarea consists of three DWR subbasins: the 180/400-Foot Aquifer Subbasin, the Monterey Subbasin, and the Seaside Subbasin.

Construction of the Interlake Tunnel Project connecting Nacimiento Reservoir to San Antonio Reservoir is mentioned in the 1992 Revised Draft Allocation Formula Information report.

Annexations to Zones 2 and 2A: The MCWRA Board of Directors adopted an Annexation Policy dated March 29, 1993, which provided for the process for lands not then included within Zones 2 and 2A to be annexed into both zones subject to the annexation process in Agency Act § 43, the preparation of final environmental documents, and the setting of annexation fees.

Certain public entities, such as the City of Salinas and the Castroville Community Services District, did not need to seek annexation since they were originally included in Zones 2 and 2A. Since the adoption of the Annexation Policy, there have been [redacted] annexations to Zones 2 and 2A [Comment: Please check the number of annexations with MCWRA]. Prominent among them was the 1993 Fort Ord Annexation and the 1996 Marina Area Lands Annexation, which include some lands within the 180/400-Foot Aquifer Subbasin.

1993 Fort Ord Annexation to Zones 2 and 2A: Under the “Agreement between the United States of America and the Monterey County Water Resources Agency concerning Annexation of Fort Ord into Zones 2 and 2A of the Monterey County Water Resources Agency, Agreement No. A-06404”, dated September 21, 1993, the MCWRA annexed the Fort Ord lands into Zones 2 and 2A and allocated to the Army 6,600 acre-feet per year of potable groundwater from the Salinas Valley Groundwater Basin. In 1993, the Seaside Groundwater Basin was considered to be hydraulically separate from the Salinas Valley Groundwater Basin even though Zone 2A included the Seaside Groundwater Basin within the Pressure Subarea. The Army paid an annexation fee of \$7.4 million to be used by MCWRA to complete the design of the Castroville Seawater Intrusion Project (CSIP). In addition, the Army received a \$400,000 credit for money spent on planning and information for the EIR/EIS for CSIP, the Salinas Valley Reclamation Project, and the Fort Ord Annexation. The September 10, 1993 “Annexation Assembly and Evaluation Report for the

Annexation of Fort Ord by the Monterey County Water Resources Agency,” which was incorporated as Appendix D to the 1993 Annexation Agreement, provides the background and justification for the annexation. The Executive Summary to that report states in part the following:

The purpose of this annexation by [MCWRA] is to provide the basis for a long term, reliable, potable water supply to supply the Army’s residual mission at Fort Ord after it is realigned per the Base Closure and Realignment Act of 1990. Annexation will also facilitate the disposal and reuse of the portions of Fort Ord not needed to support the Army’s residual mission.

In 2001, the Army through FORA deeded to MCWD the 6,600 AFY allocation except for reserving 1,577 AFY to meet Federal water demands within the former Fort Ord. Under an exclusive potable water contract, the Army provides its reserved water right to MCWD to meet Army and other Federal Agency potable water demands within the former Fort Ord.

1996 Marina Area Lands Annexation to Zones 2 and 2A: Under the “Annexation Agreement and Groundwater Mitigation Framework for Marina Area Lands” dated March 1996 (1996 Annexation Agreement), among the MCWRA, the Marina Coast Water District, J.G. Armstrong Family Members, RMC Lonestar (now CEMEX), and the City of Marina, the MCWRA annexed MCWD’s Central Marina service area into Zones 2 and 2A and allocated to MCWD 3,020 AFY from the Salinas Valley Groundwater Basin for use in the Central Marina service area. MCWD paid a net annexation fee of \$2,449,410 after receiving a \$400,000 credit against the annexation fee. Section 1.1, Purpose, of the 1996 Annexation Agreement stated:

The purpose of this Agreement and Framework is to help reduce seawater intrusion and protect the groundwater resource and preserve the environment of the Salinas River Groundwater Basin through voluntary commitments by the Parties to limit, conserve and manage the use of groundwater from the Salinas River groundwater basin, and to provide the terms and conditions for the annexation of certain territory in the Marina area to the [MCWRA’s] benefit assessment Zones 2 and 2A as a financing mechanism providing additional revenues to the [MCWRA] to manage and protect the groundwater resource in the Salinas River Groundwater Basin and to reduce seawater intrusion.

Under the 1996 Annexation Agreement, additional groundwater supply would be made available to MCWD for use within the Armstrong Ranch and the RMC Lonestar (now CEMEX) properties north of Marina when those properties exercised their respective rights to annex into Zones 2 and 2A. For example, in the early 1990s, RMC Lonestar pumped 500 AFY of non-potable water for its overlying sand mining operation. In the 1996 Annexation Agreement, RMC Lonestar agreed to limit its overlying groundwater right to 500 AFY in exchanged for the right to receive 500 AFY of potable water from MCWD upon annexation to MCWD and the payment of Zone 2

and 2A annexation fees to MCWRA. MCWD would then have the right to withdraw an additional 500 AFY from the Salinas Valley Groundwater Basin to serve that property.

The 1996 Annexation Agreement, like the 1993 Annexation Agreement, provided for MCWRA to develop a replacement potable water supply, such that most groundwater pumping within Fort Ord and Marina Area Lands could be curtailed. However, by Resolution 00-172 adopted on April 25, 2000, the Board of Supervisors decreed that the MCWRA has no contractual obligation to fund a potable water system for Fort Ord and the Marina Area Lands. MCWD will endeavor to develop its own new water supplies to supplement its groundwater rights.

MCWRA Recycled Water Projects. Please see the discussion in Section 3.9.1 on the Monterey County Water Recycling Projects, a combination of the Salinas Valley Reclamation Project (recycled water) and the Castroville Seawater Intrusion Project (CSIP) (distribution and supplemental well system), funded through the establishment of Zone 2B to fight seawater intrusion in the 180/400-Foot Aquifer Subbasin. Construction began in 1995 and delivery of recycled water to fields near Castroville started in 1998.

In summary, as stated in the 1993 Annexation Agreement, the Salinas Valley Groundwater Basin has had a problem with seawater intrusion since the 1940s. The prevention of seawater intrusion was a principal reason for the enactment of the District Act in 1947. Since then, the MCWRA has developed projects and program to reduce the adverse impacts from pumping and seawater intrusion within the 180/400-Foot Aquifer Subbasin. Unfortunately, the results of those efforts did not prevent DWR in January 2016 from classifying the subbasin as being Critically Overdrafted. The District Act and then the Agency Act have been the foundation of groundwater management within Monterey County. Now in the SGMA era, that foundation needs to be recognized and integrated into and coordinated with this GSP for the 180/400-Foot Aquifer Subbasin.

[Substitute the following for the entire Section 3.9]

### **3.9 CONJUNCTIVE USE PROGRAMS**

#### **3.9.1. Monterey county Water Recycling Projects**

The Monterey County Water Recycling Projects are a combination of the Salinas Valley Reclamation Project (recycled water) and the Castroville Seawater Intrusion Project (CSIP) (distribution and supplemental well system). They are funded through the establishment of Zone 2B to fight seawater intrusion in the 180/400-Foot Aquifer Subbasin. Construction began in 1995 and delivery of recycled water to fields near Castroville started in 1998.

CSIP is the only existing conjunctive use project that operates in the 180/400-Foot Aquifer Subbasin serving some 12,000 acres of farmland within the subbasin. The extend of the current CSIP distribution area is shown in Figure 3-6. Even with CSIP providing two-thirds of the growers' water needs, there continued to be a heavy reliance on pumping groundwater for irrigation. The Salinas River Diversion Facility (SRDF) was constructed to provide filtered and chlorinated river water and began operations in April 2010. During non-drought periods, the operation of the SRDF can significantly reduce the needed by growers to pump groundwater except in periods of extremely high irrigation demand. When river water is available and the SRDF is operating, grower groundwater pumping has been reduced by about 80% during peak irrigation demand periods. However, additional direct and in-lieu groundwater recharge projects are needed, and potential projects will be identified and discussed in the GSP for the subbasin.

#### **3.9.2 Pure Water Monterey Groundwater Replenishment Project**

The Pure Water Monterey (PWM) Groundwater Replenishment Project is an advance water recycling project jointly developed by Monterey Peninsula Water Management District (MPWMD), Monterey One Water (M1W), and MCWD. Advance treated recycled water (ATW) will be produced at M1W Wastewater Treatment Plant's (WWTP) Advanced Water Treatment Facility and The project will provide (1) 600 AFY of ATW to MCWD for non-potable irrigation uses and in-lieu groundwater recharge within MCWD's service areas (including portions of the 180/400-Foot Aquifer Subbasin, and (2) up to 3,700 AFY of ATW to MPWMD for injection to the Seaside Subbasin for later recovery for direct use within CalAm's Monterey District service area. This latter process is known as Indirect Potable Reuse (IPR). The project also allows for conjunctive use among project beneficiaries. The project is currently under construction with a planned commercial operations date in mid-2019. MCWD is entitled to a total of 1,427 AFY of ATW and the 600 AFY is the first phase. The second phase of 827 AFY will be developed depending upon future demand and funding.



The PWM Project supplements existing wastewater inflows to the M1W WWTP from the following new sources: (1) wastewater from the City of Salinas industrial wastewater system which is mostly referred to as the agricultural wash water system, (2) storm water flows from the southern part of Salinas, (3) surface water and agricultural tile drain water that is captured in the Reclamation Ditch, and (4) surface water and agricultural tile drain water that flows in the Blanco Drain. These new sources should also produce additional tertiary treated recycled water (not ATW) for use in CSIP.

The PWM project includes a conjunctive use component between CSIP users and CalAm. During wet and normal years, the project provides an additional 200 AFY of ATW for injection in the Seaside Subbasin, creating a banked groundwater reserve. During dry years, the project may deliver less than 3,500 AFY to the Seaside Subbasin, while CalAm will draw from its bank reserved to make up the difference to its supplies up to 3,500 AFY. This allows additional recycled water to be provided to CSIP agricultural users during dry years.

### **3.9.3 Armstrong Ranch Water Supply Augmentation Study and Additional Studies**

The MCWD is conducting an assessment of water supply augmentation and groundwater recharge projects for MCWD's Central Marina and Ord Community service areas. This effort also includes working jointly with FORA and M1W to identify additional water supply options needed to meet an additional 973 AFY of demand identified in the Fort Ord Base Reuse Plan (BRP). Efforts to date assessed technical feasibility, permitting requirements, and costs of augmenting water supplies through Indirect Potable Reuse and the diversion of surplus surface water from the Salinas River available during winter months.

MCWD already owns lands within the Armstrong Ranch located within the 180/400-Foot Aquifer Subbasin and next to M1W's WWTP and ATW Facility. Excess Salinas River water could be diverted to the Armstrong Ranch site (1) for possible treatment in a water treatment plant and (2) for onsite groundwater recharge through either percolation or injection and for later recovery for direct potable use. A Southern Component would serve potable water to MCWD's service areas. A potential North Component could serve potable and non-potable water to areas north of the Salinas River within the subbasin. The Armstrong Ranch study began in 2016 and is anticipated to continue as part of the MCWD/FORA/M1W BRP study.

### **3.9.4 Options to Meet the Additional 2,400 AFY of Demand in the Fort Ord Base Reuse Plan**

The Fort Ord Reuse Authority (FORA) is responsible for the oversight of the closure and economic redevelopment of the former Fort Ord. Redevelopment is performed pursuant to the Fort Ord Base Reuse Plan (BRP), adopted by FORA 1997 and reassessed in 2012. As described in 3.7.3.2 above, within the former Fort Ord, MCWD has been designated as the exclusive (1) water and sewer collection service provider and (2) developer and implementer of all new water supplies



for all non-Federal lands. Under an exclusive contract with the Army, MCWD is responsible for providing water and sewer collection services for the Army and other Federal agencies within the former Fort Ord.

The Final Environmental Impact Report (EIR) for the Fort Ord BRP projected a total water demand of 9,000 AFY at buildout, in excess of the 6,600 AFY groundwater supply allocated under the 1993 Annexation Agreement (see Section 3.8.1). Development of the 2,400 AFY of additional water supply was identified as one of the mitigation measures for redevelopment of Fort Ord. FORA and MCWD have conducted extensive studies and environmental reviews of options to supply that additional 2,400 AFY. FORA agreed that the 2,400 AFY would be met through 1,200 AFY of recycled water and 1,200 AFY of desalinated water. Subsequently, MCWD with FORA's approval secured an entitlement to 1,427 AFY of advanced treated water (ATW) from the Pure Water Monterey Project. FORA, MCWD, and M1W agreed to participate and fund a joint three-party planning process to identify water supply options to meet the 973 AFY shortfall. The three-party study began in 2018 and is anticipated to be completed in 2019. Water supply options to be studied include brackish water and seawater desalination, increased water conservation measures, the Armstrong Ranch Project, ASR, and additional ATW.

**PRELIMINARY COMMENTS TO DRAFT VALLEY-WIDE INTEGRATED GSP, CHAPTERS 1 – 3**

Note that some of the comments below are repeats of the draft 180/400 GSP comments.

<b>Page/Section</b>	<b>Comment</b>
4	The Section 2 introduction needs to identify (1) what areas the SVBGA and MCWD are designated by DWR as the exclusive GSA and (2) what areas where there are overlaps. It is good that the draft at least recognizes that there are overlap areas.
6, §3.1	The City of Marina needs to be added to the sentence: “The Subbasin contains the municipalities of ...”
9, §3.3.4	In the first sentence, the City of Marina needs to be added. Words along the following lines need to be substituted for the third sentence: “The Marina Coast Water District provides water and sewer collection services within its jurisdictional boundaries and within its Ord Community service area, which consists of the former Fort Ord. As a county water district, MCWD has water management authority over those areas. MCWD has filed an application with LAFCO to include all of the Ord Community service parcels that currently receive potable water or that have received final land use development approvals by the applicable land use jurisdiction.”
20, §3.6.1.4	MPWMD is also a CASGEM monitoring entity within the Monterey Subbasin and is responsible for areas within the former Seaside Subbasin prior to the 2016 basin boundary modification.
22, §3.6.3.2	Add the following fourth bullet: “Required CalAm and MCWRA monitoring wells for CalAm’s proposed source wells for the Monterey Peninsula Water Supply Project (MPWSP).”
22, §3.6.3.2	Please state how many of the USGS GAMA wells are environmental monitoring wells, irrigation wells, and public water supply wells.
20-26, §3.6	The GSP needs to provide references for existing monitoring programs, such as monitoring plans and monitoring program websites.
22, §3.6.3	MCWD and the Army monitors groundwater levels and quality at the former Fort Ord for control of groundwater contamination.
32, §3.7.3.3	See language above in 180/400 comments.

Page/Section	Comment
33, §3.8	Substitute then entire existing Section 3.8, Conjunctive Use Programs with the new Section 3.9, Conjunctive Use Programs, for the 180/400 GSP.
33-48, §3.9	Please provide references and document dates for the land use plans discussed.
33-48, §3.9	Please provide a discussion of FORA’s Base Reuse Plan as a land use plan in the GSP plan area, per § 354.8 (f) of GSP Regulations.
42, §3.9.4	Please ask the City of Marina to review this discussion of its General Plan. The City should also include a discussion about any Local Coastal Plan restrictions on new groundwater wells.
46, § 3.9.8	<p>A description of the existing prohibitions and restrictions on well drilling within the 180/400 Foot Aquifer Subbasin needs to be added, including the County’s 2018 Interim Ordinance, the County’s Well Prohibition in Fort Ord (Ordinance No. 04011), MCWD’s Well Ordinance (Municipal Code Chapter 3.32), and ordinances by other municipalities in the 180/400 Foot Aquifer Subbasin, if any. Check the Monterey County General Plan on additional restrictions on drilling new wells within the Coastal Zone.</p> <p>Possible placeholder description of the County’s Moratorium:                      County Moratorium on Accepting and Processing New Well Permits. On May 22, 2018, the Monterey County Board of Supervisors adopted Ordinance No. 5302 pursuant to Government Code Section 65858. The ordinance imposed a moratorium on the County Health Department accepting and processing new well permits; it was not a moratorium on additional groundwater pumping from existing wells. The ordinance was an Interim Urgency Ordinance, which took effect immediately upon adoption. The ordinance prohibits the acceptance or processing of any applications for new wells in the defined “Area of Impact” with stated exceptions, including municipal wells and replacement wells. Pursuant to Section 65858, the ordinance was originally only effective for 45 days to July 5, 2018, but at the June 26 Board meeting, the Board of Supervisors on a 4-1 vote extended the ordinance to May 21, 2020, by adoption of Ordinance No. 5303. During the moratorium, the County has stated that it will conduct further studies. [The “Area of Impact” map should be inserted.]</p>

26 March 2019

## MEMORANDUM

**To:** Gary Peterson, Salinas Valley Basin Groundwater Sustainability Agency  
Derrick Williams, P.G., C.Hg., Montgomery & Associates

**From:** Keith Van Der Maaten, P.E., Marina Coast Water District  
Patrick Breen, Marina Coast Water District  
Vera Nelson, P.E., EKI Environment and Water, Inc.  
Tina Wang, P.E., EKI Environment and Water, Inc.

**Subject:** **Preliminary Comments Regarding Salinas Valley Basin Groundwater Sustainability Agency Draft Groundwater Sustainability Plan Chapter 4 (EKI B60094.03)**

On behalf of the Marina Coast Water District Groundwater Sustainability Agency (MCWD GSA), EKI has reviewed and prepared preliminary comments on the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) draft 180/400 Foot Aquifer Subbasin and Salinas Valley Integrated Groundwater Sustainability Plans (GSPs) Chapter 4, dated 30 November 2018 and updated 3 January 2019.

EKI has provided a majority of these comments during SVBGSA's December 6 Planning Committee Meeting and received concurrence from SVBGSA as identified below.

### **Comments for 180/400 Foot Aquifer Subbasin GSP, Chapter 4**

#### 1. Section 4.4.1 – Principal Aquifers and Aquitards

The GSP Regulations specifically define the term “Principal Aquifer” (California Code of Regulations (CCR) §351 (aa)) and have plan development as well as monitoring network requirements for identified Principal Aquifers. Currently, GSP Section 4.4.1 appears to have included all alluvial deposits/valley fill deposits from ground surface to the bottom of the subbasin in a single Principal Aquifer.

As agreed upon during the December 6 Planning Committee Meeting, the 180/400 Foot Aquifer Subbasin GSP should define multiple Principal Aquifers given the definable layers of aquifer and aquitard units in the subbasin. At least one Principal Aquifer should be defined for the Deep Aquifers (i.e. the 900-Foot and 1,500-Foot Aquifers). Per GSP Regulations, groundwater elevation contours, hydrographs, minimum thresholds for

seawater intrusion, sufficient monitoring network coverage, etc. should be developed for each Principal Aquifer identified in this GSP.

2. Section 4.4.1 – Principal Aquifers and Aquitards

In addition to the comment above, this section discusses extensive continuous clay layers within the 180/400 Foot Aquifer Subbasin. However, there are existing wells and abandoned wells that are potentially acting as “conduits” for saline water to flow to the lower aquifers<sup>1</sup>. Airborne electromagnetic analysis conducted in the northern Salinas Valley Basin also showed that there are gaps in the 180/400-Foot Aquitard in the 180/400-Foot Aquifer Subbasin near the coast.

Please add a discussion of potential conduits of vertical flow in the Subbasin. This comment was not provided during the December 6 Planning Committee Meeting.

3. Section 4.4.2 – Aquifer Properties

In addition to defining multiple Principal Aquifers, the 180/400 Foot Aquifer Subbasin GSP should provide aquifer properties for each of the defined Principal Aquifers. The GSP should provide storativity, conductivity (per CCR §354.14 (b)(4)(B)), and transmissivity for each Principal Aquifer. We understand that Section 4.7 of the January 2019 update discussed aquifer parameters as a data gap. As agreed upon during the Planning Committee meeting, SVBGSA will obtain these aquifer property parameters from the Water Resources Agency to include in this section.

This section could benefit from either a table or description on an aquifer and aquitard basis compiling all the relevant data (e.g. from field tests or models) and tabulating ranges for each aquifer or aquitard.

4. Figures 4-6, 4-7, and 4-8 – Cross-Sections

The Deep Aquifers are unrepresented in cross-sections. Please provide a discussion if this is a data gap.

This comment has been noted by and concurred to by SVBGSA during the Planning Committee Meeting. Section 4.7 of the January 2019 update has included information on the deep aquifer as a data gap.

5. Section 4.6.2 – Seawater Intrusion

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<sup>1</sup> Monterey County Water Resources Agency. Recommendations to Address the Expansion of Seawater Intrusion in the Salinas Valley Groundwater Basin, October 2017.

Please add the following text after the second paragraph on Page 33. This comment was not provided during the December 6 Planning Committee Meeting.

“Groundwater with a total dissolved solid of 3,000 mg/L or less, is groundwater that is considered to be suitable, or potentially suitable, for beneficial uses in accordance with SWRCB Resolution No. 88-63 as adopted in its entirety in the Central Coast Regional Water Quality Control Board’s Basin Plan. California Code of Regulations, Title 23, Section 659 – 669 lists the beneficial uses of surface water, which is also applicable to groundwater. Those beneficial uses include (1) domestic use, (2) irrigation use, (3) power use, (4) frost protection use, (5) municipal use, (6) mining use, (7) industrial use, (8) fish and wildlife preservation and enhancement use, (9) aquaculture use, (10) fish and wildlife protection and enhancement, (11) recreational use, (12) water quality use, and (13) stock watering use. In addition, Water Code Section 1242 states that the storing of water underground constitutes a beneficial use.”

#### **Comments for Salinas Valley Integrated Subbasin GSP, Chapter 4**

##### **1. Section 4.4 – Groundwater Hydrology**

On Page 17, the GSP states

*“The presence of laterally continuous clay layers distinguishes the 180/400-Foot Aquifer Subbasin from the other subbasins in the Valley. As described in the following two subsections, the presence of continuous clay layers affects the following aspects of the basin hydrogeology:*

- *A near-surface clay layer creates relatively shallow confined conditions in the 180/400-Foot Aquifer Subbasin, in contrast to the unconfined conditions over most of the basin*
- *Deeper clay layers create definable aquifers in the 180/400-Foot Aquifer Subbasin, whereas most of the basin includes only a single undifferentiated aquifer.”*

This section implies that the 180/400 Foot Aquifer Subbasin contains definable aquifer layers, whereas other subbasins in Salinas Valley do not have definable aquifer layers. However, definable aquifers also exist throughout the Monterey Subbasin and throughout most of the Forebay Aquifer Subbasin to just north of King City.

Additionally, this section should provide a discussion of the sediments across the basin that are stratigraphically equivalent. For example, the shallow zone and deep zones in the Eastside Subbasin “are generally time-stratigraphically equivalent to the Pressure 180-Foot and Pressure 400-Foot Aquifers”.<sup>2</sup>

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<sup>2</sup> Brown and Caldwell, 2015. State of the Salinas River Groundwater Basin, dated 16 January 2015.

2. Section 4.7.2 – Seawater Intrusion

Please add the following text on Page 35. This comment was not provided during the December 6 Planning Committee Meeting.

“Groundwater with total dissolved solids of 3,000 mg/L or less, is groundwater that is considered to be suitable, or potentially suitable, for beneficial uses in accordance with SWRCB Resolution No. 88-63 as adopted in its entirety in the Central Coast Regional Water Quality Control Board’s Basin Plan. California Code of Regulations, Title 23, section 659 – 669 lists the beneficial uses of surface water, which is also applicable to groundwater. Those beneficial uses include (1) domestic use, (2) irrigation use, (3) power use, (4) frost protection use, (5) municipal use, (6) mining use, (7) industrial use, (8) fish and wildlife preservation and enhancement use, (9) aquaculture use, (10) fish and wildlife protection and enhancement, (11) recreational use, (12) water quality use, and (13) stock watering use. In addition, Water Code Section 1242 states that the storing of water underground constitutes a beneficial use.”

18 April 2019

## MEMORANDUM

**To:** Gary Peterson, Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA)  
Derrick Williams, P.G., C.Hg., Montgomery & Associates

**From:** Keith Van Der Maaten, P.E., Marina Coast Water District (MCWD)  
Patrick Breen, MCWD  
Vera Nelson, P.E., EKI Environment and Water, Inc. (EKI)  
Tina Wang, P.E., EKI

**Subject: Preliminary Comments Regarding Salinas Valley Basin Groundwater Sustainability Agency Draft Groundwater Sustainability Plan Chapter 5 (EKI B60094.03)**

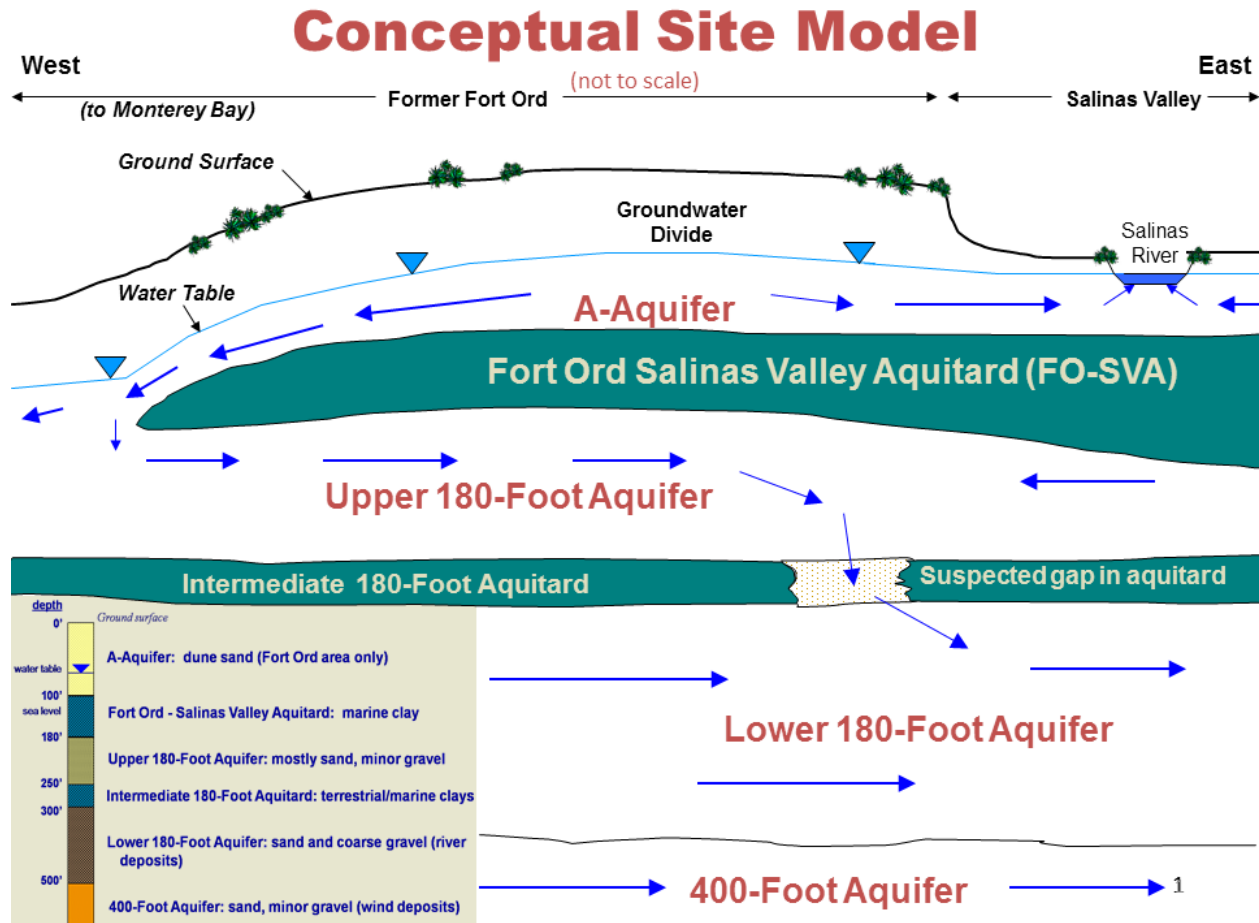
On behalf of the Marina Coast Water District Groundwater Sustainability Agency (MCWD GSA), EKI has reviewed and prepared preliminary comments on the SVBGSA draft 180/400 Foot Aquifer Subbasin and Salinas Valley Integrated Groundwater Sustainability Plans (GSPs) Chapter 5, released January 2019 and updated February 2019.

### 1. General Comment

We understand that SVBGSA has solicited input during its February 7 Planning Committee regarding the inclusion of the Dune Sand Aquifer in its GSPs. Although the Dune Sand Aquifer exists only south of the river and thus encompasses a small portion of the 180/400 Foot Aquifer Subbasin, we request that the 180/400 Foot Aquifer Subbasin GSP characterize the Dune Sand Aquifer for the following reasons.

- (1) The Dune Sand Aquifer is an important source of freshwater and recharge to deeper aquifers south of the Salinas River.
  - Groundwater level data and groundwater quality data obtained from Fort Ord indicate that groundwater with low TDS concentrations from the Dune Sand Aquifer seeps down into the upper portion of the 180-Foot Aquifer, upgradient of the coast and then “U-turns” and flows back into the basin. This process is illustrated in figures presented on Fort Ord’s website:





Source: <http://fortordcleanup.com/programs/groundwater>

- Recent airborne electromagnetic (AEM) data collected in the northern Salinas Valley (see Attachment A) has confirmed that freshwater exists in the Dune Sand Aquifer and underlying portions of the Upper 180-Foot Aquifer in 180/400-Foot Aquifer Subbasin.
- (2) The Dune Sand Aquifer is likely a water source for shallow wells in the Corral de Tierra area in the adjacent Monterey Subbasin, which should be further confirmed by SVBGSA in its preparation of GSP components of the Corral de Tierra area.
  - (3) Chemical impacts exist within the Dune Sand Aquifer, which could impact other underlying aquifers.
    - Volatile organic compounds (VOCs) and other constituents have been detected in groundwater within the Dune Sand Aquifer at the Monterey Peninsula Landfill (Geotracker ID L10005501051).

- Groundwater quality data obtained from Monterey Peninsula Water Supply Project (MPWSP) shallow monitoring wells suggest that nitrate impacts may exist in the Dune Sand Aquifer.
- (4) Multiple Projects have been proposed within the Dune Sand Aquifer in the 180/400-Foot Aquifer Subbasin.
- Several studies have been completed by MCWD and Fort Ord Reuse Authority (FORA) to evaluate the potential infiltration and storage of Advanced Treated wastewater or excess surface water from the Salinas River within the Dune Sand Aquifer at Armstrong Ranch.
  - MPWSP slant wells are screened across and will draw water from the Dune Sand Aquifer.

Therefore, the 180/400 Foot Aquifer Subbasin GSP should characterize the Dune Sand Aquifer and develop a plan to manage current as well as planned groundwater activities in the Dune Sand Aquifer. Moreover, MCWD will coordinate with SVBGSA to develop Sustainable Management Criteria (SMCs) for Dune Sand Aquifer in the Monterey Subbasin GSP, given the Dune Sand Aquifer's importance in water source and groundwater recharge. It is important that the Dune Sand Aquifer is properly characterized in both the 180/400 Foot Aquifer Subbasin GSP and the Monterey Subbasin GSP, so that a coordinated set of SMCs are developed for the Dune Sand Aquifer in both GSPs.

## 2. Section 5.1 – Groundwater Elevations

Draft chapter 5 of the 180/400 Foot Aquifer Subbasin GSP states that “Insufficient data currently exist to map flow directions and groundwater elevations in the deep aquifer” (Page 17) and “Hydrographs are not available for wells completed in the Deep Aquifer” (Page 18). However, MCWRA's 2017 *Recommendations to Address the Expansion of Seawater Intrusion in the Salinas Valley Groundwater Basin* states that there are 32 active production wells and eight monitoring wells screened in the deep aquifers, and that MCWRA monitors groundwater levels at thirteen locations in the Deep Aquifers “with varying frequency”, a majority of which are located in the 180/400 Foot Aquifer Subbasin. Figure 21 of the document showed average groundwater level changes in the deep aquifers from 1986 to 2016. We suggest that the SVBGSA obtain this information from MCWRA and provide groundwater elevation and/or elevation trend information in the Deep Aquifer.

## 3. Section 5.2 – Seawater Intrusion

Per GSP Regulations Section 354.16 (c), a GSP should provide “seawater intrusion conditions in the basin, including maps and cross sections of the seawater intrusion front for each

principal aquifer”. The GSPs should address this requirement and provide cross-sections. AEM data collected by MCWD should be incorporated into these cross-sections<sup>1</sup>.

**Attachments**

Attachment A. Selected Figures from Gottschalk et al. Interpretation of Hydrostratigraphy and Water Quality from AEM Data Collected in the Northern Salinas Valley, CA, dated 15 March 2018.

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<sup>1</sup> Gottschalk et al. Interpretation of Hydrostratigraphy and Water Quality from AEM Data Collected in the Northern Salinas Valley, CA, dated 15 March 2018.

**Attachment A**

Selected Figures from Gottschalk et al. Interpretation of Hydrostratigraphy and Water Quality from AEM Data Collected in the Northern Salinas Valley, CA, dated 15 March 2018.

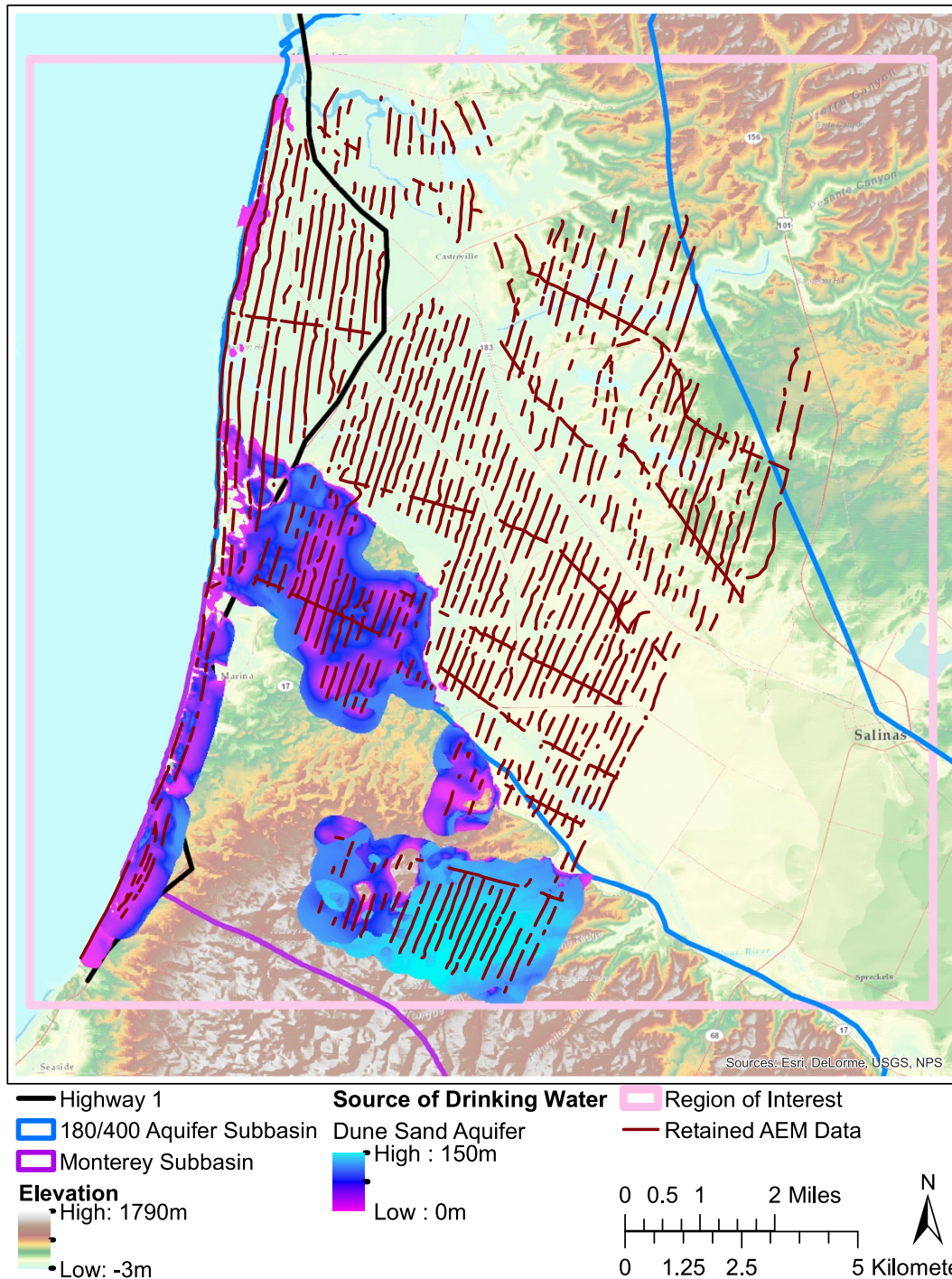


Figure 22: Interpreted thickness of the subsurface containing sources of drinking water within the Dune Sand Aquifer in the region of interest, shown in a color scale ranging from purple to light blue, representing 0 m to 150 integrated meters of the source drinking water, respectively. Overlaying the thickness of sources of drinking water are the locations where AEM data were collected and retained for processing, shown as red lines. The Dune Sand Aquifer lies south of the Salinas River, aside from the dune sand deposits along the coast within the Salinas Valley basin, which are also treated as part of the Dune Sand Aquifer here. The boundaries used in calculating the regions containing sources of drinking water, Highway 1, the 180/400 Aquifer Subbasin, and the Monterey Subbasin, are shown as black, blue, and purple lines, respectively.



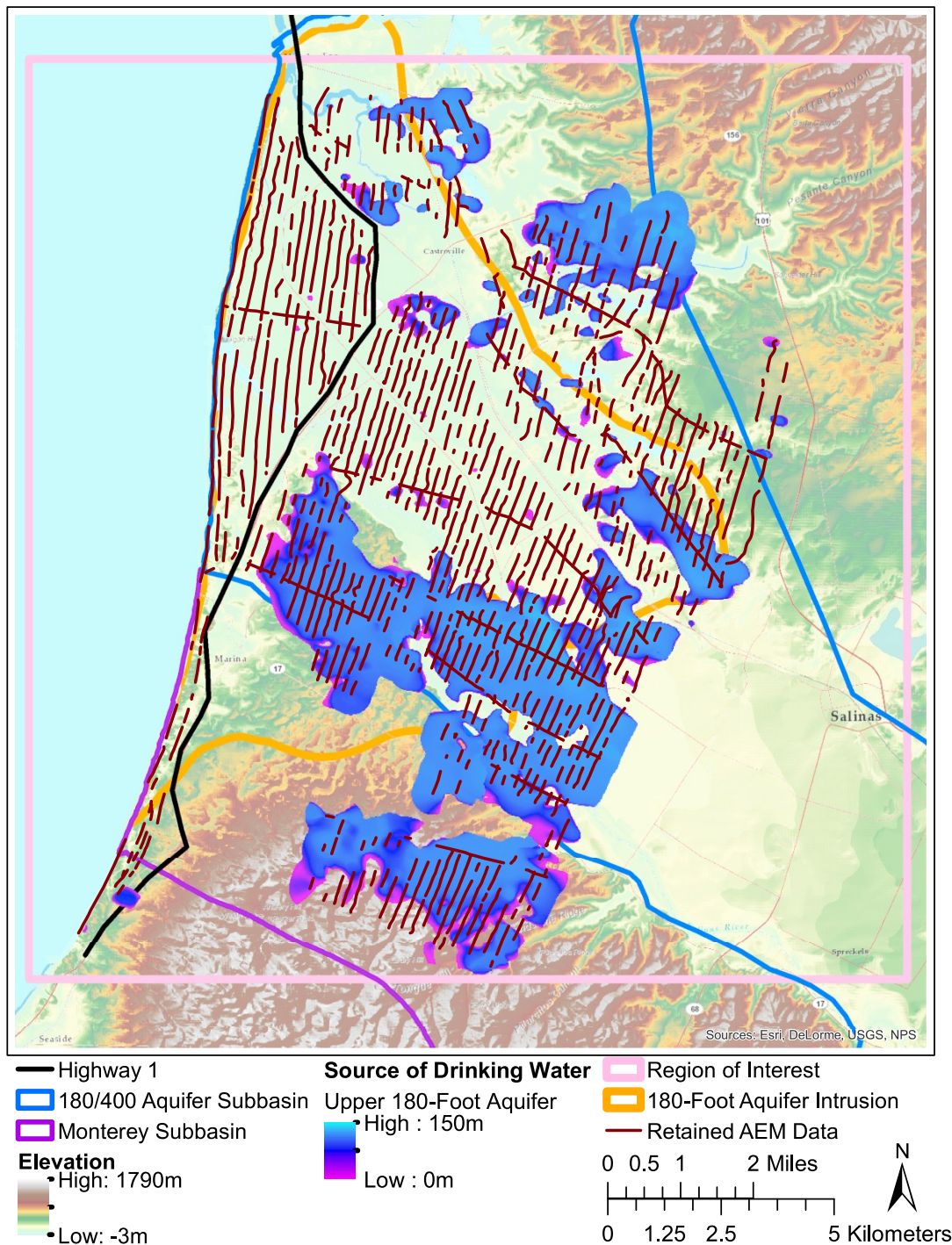


Figure 23: Interpreted thickness of the subsurface containing sources of drinking water within the Upper 180-Foot Aquifer in the region of interest, shown in a color scale ranging from purple to light blue, representing 0 m to 150 integrated meters of the source of drinking water, respectively. Overlaying the thickness of sources of drinking water are the locations where AEM data were collected and retained for processing, shown as red lines. The extent of saltwater intrusion in the 400-Foot Aquifer, as measured by the Monterey County Water Resources Agency, is shown as an orange line. The boundaries used in calculating the regions containing sources of drinking water, Highway 1, the 180/400 Aquifer Subbasin, and the Monterey Subbasin, are shown as black, blue, and purple lines, respectively.



# MARINA COAST WATER DISTRICT

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## DIRECTORS

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2 July 2019

Mr. Gary Peterson  
General Manager  
Salinas Valley Basin Groundwater Sustainability Agency  
1441 Shilling Place  
Salinas, CA 93901

Mr. Derrick Williams  
Montgomery & Associates  
1232 Park Street, Suite 201B  
Paso Robles, CA 93446

Dear Mr. Peterson and Mr. Williams,

Thank you for taking the time to meet with us and our SGMA consultant EKI Environment & Water Inc. regarding Draft Chapter 6 (Water Budgets) of the 180/400 Foot Aquifer Subbasin Groundwater Sustainability Plan (180/400 Subbasin GSP) on June 19, 2019. This letter provides a written summary of our comments on Draft Chapter 6. These comments incorporate information discussed during our meeting and provide suggested draft language for inclusion in Chapter 6, based upon our discussions.

## MAJOR COMMENTS

### 1. Estimated Sustainable Yield Inconsistent with Sustainable Groundwater Management Act (“SGMA”)

The term “sustainable yield” is defined under Sustainable Groundwater Management Act (SGMA) as “the maximum quantity of water, calculated over a base period representative of long-term conditions in the basin and including any temporary surplus, that can be withdrawn annually from a groundwater supply without causing an undesirable result.”

Additionally, on Page 24 of Department of Water Resources’ Best Management Practices for the Sustainable Management of Groundwater states the following:

“[w]ater budget accounting information should directly support the estimate of sustainable yield for the basin and include an explanation of how the estimate of sustainable yield will allow the basin to be operated to avoid locally defined undesirable results. The explanation should include a discussion of the relationship or linkage between the estimated sustainable yield for the basin and local determination of the sustainable management criteria (sustainability goal, undesirable results, minimum thresholds, and measurable objectives).”

However, as discussed during our meeting, we understand that due to modeling limitations, data gaps, and uncertainties regarding future projects and management actions, the GSP will not attempt to estimate the “sustainable yield” of the 180/400 Subbasin, as defined under SGMA. Rather, the GSP will provide a gross estimate of the total current and future fresh groundwater inflows<sup>1</sup>, in the absence of any additional groundwater augmentation project (defined herein as the “GSP Sustainable Yield”). The GSP Sustainable Yield effectively provides an “upper bound” on the sustainable yield of the basin (i.e., assuming no water is added to the basin), but it does not represent the actual amount of groundwater that can be extracted without creating undesirable results within the 180/400 Subbasin. The GSP Sustainable Yield will also not meet all of the sustainable management criteria identified in Chapter 8, and does not address inland gradients that will limit the Monterey Subbasins to achieve sustainability. For example, the information presented in Chapter 6 indicates that seawater intrusion will continue to occur under the identified sustainable yield, the management objective for seawater intrusion identified in Chapter 8 is the 500 milligrams per liter (mg/L) chloride contour at Highway 1.

We understand that SVBGSA intends to propose projects to halt seawater intrusion (e.g., groundwater extraction/injection barriers) and that such projects will affect the Sustainable Yield of the basin. Given that such projects will affect the sustainable yield, we understand that these values cannot be finalized before completing the project and management actions analyses, and selecting which projects will ultimately be implemented. As such we recommend that, the draft water budget chapter include additional language that stresses the difference between the estimated GSP Sustainable Yield and the quantity of groundwater that can be withdrawn without causing undesirable results and meeting sustainable management criteria.

We recommend that the following language be included:

*The "sustainable yield estimate" presented in the draft Water Budget chapter does not consider all of the sustainability indicators or sustainable management criteria. As such, it is not equivalent to the quantity of groundwater that can be extracted without causing undesirable results. The plan for achieving sustainability in the basin will be addressed through projects and management actions, where SVBGSA will compare the projected and actual outcomes of project and management actions against sustainable management criteria and ultimately evaluate how much groundwater can be extracted, based upon the projects and management actions that are selected and implemented.*

## **2. The 180/400 Subbasin GSP must not preclude the Monterey Subbasin from Achieving Sustainability**

A summary of the historical, current, and future water budget calculations presented in Chapter 6 is included in Attachment A. As shown in Attachment A, net groundwater inflows from the Monterey Subbasin to the 180/400 Subbasin were assumed to be 3,000 acre-feet per year (AFY) in the historical and current water budgets, and estimated to be 5,500 to 6,200 AFY in the projected water budgets. The historical net groundwater inflow estimates appear to be based upon data collected from 1970 to 1994. Review of current data indicates that these values likely underestimate cross-boundary flows from the Monterey Subbasin, and likely do not include flows in the Deep Aquifer where inland gradients exist.

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<sup>1</sup> These inflows represent the amount of groundwater that can be withdrawn without decreasing the overall groundwater storage in the basin.



As stated in our comments to draft Chapter 8, the 180/400 Subbasin GSP must address inland gradients and cross-boundary groundwater flows from the Monterey Subbasin into the 180/400 Subbasin. The GSP fails to mention that current and projected increases in groundwater extraction in the 180/400 Subbasin are being sustained, in part, by cross-boundary groundwater flows from the Monterey Subbasin, where seawater intrusion is already occurring. The GSP for the 180/400 Subbasin may not create conditions that preclude the Monterey Subbasin from reaching sustainability.

As stated in our comments to draft Chapter 8, unless alternative water supplies are provided by SVBGSA to the Monterey Subbasin, groundwater inflows to the Monterey Subbasin must be adequate to sustain groundwater extraction by Marina Coast Water District (MCWD) from its water production wells.

We recommend that the following language be added to the GSP:

*Pursuant to GSP Regulation 350.4 (f), the 180/400 Subbasin GSP will consider the effects of its implementation on the adjacent Monterey Subbasin, and its ability to achieve and maintain sustainability.*

*“A Plan will be evaluated, and its implementation assessed, consistent with the objective that a basin be sustainably managed within 20 years of Plan implementation without adversely affecting the ability of an adjacent basin to implement its Plan or achieve and maintain its sustainability goal over the planning and implementation horizon.”*

*The Monterey and 180/400 Subbasins are hydraulically connected. Therefore, the sustainable yield and sustainable management criteria for the 180/400 Subbasin and the Monterey Subbasin must consider the effects of cross-boundary groundwater flows between subbasins and/or the provision of alternative water supplies. The Monterey Subbasin GSP will also include projects and management actions that could benefit both subbasins.*

In addition, we recommend that the following information/language be added to the GSP regarding:

- (a) the 1993 Fort Ord Annexation Agreement<sup>2</sup> and the 1996 Marina Lands Annexation Agreement<sup>3</sup>
- (b) groundwater use by MCWD and others within the Monterey Subbasin.

### ***1993 Fort Ord Annexation Agreement***

Under the 1993 Fort Ord Annexation Agreement the MCWRA annexed the Fort Ord lands into Zones 2 and 2A and allocated to the Army 6,600 acre-feet per year of potable groundwater from the Salinas Valley Groundwater Basin. The Army paid an annexation fee of \$7.4 million to be used by MCWRA to complete the design of the Castroville Seawater Intrusion Project (CSIP). In addition, the Army received a \$400,000 credit for money spent on planning and information for the EIR/EIS for CSIP, the Salinas Valley Reclamation Project, and the Fort Ord Annexation. The September 10, 1993 “Annexation Assembly and Evaluation Report for the Annexation of Fort Ord by the Monterey County Water Resources Agency,”

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<sup>2</sup> “Agreement between the United States of America and the Monterey County Water Resources Agency concerning Annexation of Fort Ord into Zones 2 and 2A of the Monterey County Water Resources Agency, Agreement No. A-06404”, dated September 21, 1993,

<sup>3</sup> “Annexation Agreement and Groundwater Mitigation Framework for Marina Area Lands” dated March 1996 (1996 Annexation Agreement), among the MCWRA, the Marina Coast Water District, J.G. Armstrong Family Members, RMC Lonestar (now CEMEX), and the City of Marina,

which was incorporated as Appendix D to the 1993 Annexation Agreement, provides the background and justification for the annexation. The Executive Summary to that report states in part the following:

The purpose of this annexation by [MCWRA] is to provide the basis for a long term, reliable, potable water supply to supply the Army's residual mission at Fort Ord after it is realigned per the Base Closure and Realignment Act of 1990. Annexation will also facilitate the disposal and reuse of the portions of Fort Ord not needed to support the Army's residual mission.

Section 4, Terms and Conditions of the 1993 Annexation Agreement state the following:

4.c. After execution of this agreement and until Project Implementation<sup>4</sup>, Fort Ord/POM Annex/RC may withdraw a maximum of 6,600 acre-feet of water per year from the Salinas Basin, provided no more than 5,200 acre-feet per year are withdrawn from the 180-foot aquifer and 400-foot aquifer. The 6,600 and 5,200 acre-feet thresholds correspond to the annual peak (1984) and recent average (1988-1992) amounts of potable water Fort Ord has withdrawn from the Salinas Basin (does not include pumpage-from the-non-potable golf course well in the Seaside Basin). ...The MCWRA agrees not to object to any Fort Ord/POM Annex/RC withdrawal under 6,600 acre-feet per year, except in compliance with California Water Code Appendix, Chapter 52, Section 22.

4.g. Should future litigation, regulation or other unforeseen action diminish the total water supply available to the MCWRA, the MCWRA agrees that it will consult with the Fort Ord/POM Annex Commander. Also, in such an event, the MCWRA agrees to exercise its powers in a manner such that Fort Ord/POM Annex/RC shall be no more severely affected in a proportional sense than the other members of the Zones.

4.h. If prior to Project Implementation, any Fort Ord/POM Annex well (including any located in the Seaside Basin) becomes contaminated with seawater, or is adversely affected by regulatory or legal action, the MCWRA: shall cooperate with the Government in finding an interim water supply; shall assist the Government in any permit processes necessary to obtain such an interim water supply; and shall provide the same services to the Government as it would to any other municipal water supplier in the Zones under similar circumstances. The Government will bear the costs of obtaining such an interim water supply. Such costs will not include the cost of MCWRA staff time in providing services to the Government hereunder. The MCWRA will continue to monitor the rate of seawater intrusion, and will keep the Fort Ord/POM Annex Commander informed as to: the rate of seawater intrusion; the progress of plans for its Project; and the estimated remaining life of the Fort Ord/POM Annex wells. The MCWRA shall pass to the Fort Ord/POM Annex Commander

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<sup>4</sup> As defined in paragraphs 2.j. and 2.k. of the Agreement:

2.j. Project: A future, long term, reliable, potable water system for the POM Annex/RC and other areas; the Project will provide at least 6,600 acre-feet per year which will permit all Salinas Basin wells on Fort Ord Lands to be shut down except during emergencies; stopping all pumping from the Salinas Basin on Fort Ord Lands is necessary to mitigate seawater intrusion; the MCWRA is currently developing such a Project to supply water to the Fort Ord Lands, Marina, Salinas, Toro Park, and perhaps other areas in north Monterey County; it is also possible that another water agency, district, utility, or purveyor could develop a smaller scale Project to supply water for just the Fort Ord Lands;

2.k. Project Implementation: The potable water system cited in paragraph 2.j. shall be considered "implemented" upon both the completion of construction and the delivery of potable water to POM Annex/RC from the completed water system;

any information they may obtain related to the continuing yield of Fort Ord/POM Annex wells located in the Seaside Basin.

### ***1996 Marina Lands Annexation Agreement***

Under the 1996 Marina Lands Annexation agreement the MCWRA annexed MCWD's Central Marina service area into Zones 2 and 2A and allocated to MCWD 3,020 AFY from the Salinas Valley Groundwater Basin for use in the Central Marina service area. MCWD paid a net annexation fee of \$2,449,410 after receiving a \$400,000 credit against the annexation fee. Section 1.1, Purpose, of the 1996 Annexation Agreement states:

The purpose of this Agreement and Framework is to help reduce seawater intrusion and protect the groundwater resource and preserve the environment of the Salinas River Groundwater Basin through voluntary commitments by the Parties to limit, conserve and manage the use of groundwater from the Salinas River groundwater basin, and to provide the terms and conditions for the annexation of certain territory in the Marina area to the [MCWRA's] benefit assessment Zones 2 and 2A as a financing mechanism providing additional revenues to the [MCWRA] to manage and protect the groundwater resource in the Salinas River Groundwater Basin and to reduce seawater intrusion.

Terms and conditions in Sections 5 and 8 of the Agreement states:

5.1.1 Commencing on the effective date of this Agreement and Framework and continuing until Mitigation Plan Implementation, MCWD will limit its withdrawal of potable groundwater from the Basin for land in the Marina area and outside the former Fort Ord Military Reservation to 3,020 afy of potable groundwater, and only such additional quantities as are permitted by this paragraph 5.1. MCWRA's groundwater resource planning for the existing MCWD service area will be based on the latest information and projections contained in the MCWD Water Plans, using 3,020 afy as a planning guideline for potable water use.

5.1.1.1 After Compliance with all applicable requirements of law, including but not limited to CEQA, MCWD may improve the interconnection between the MCWD water system and the water system serving Fort Ord, to provide for joint, conjunctive and concurrent use of all system facilities to serve Fort Ord and other areas served by MCWD, and the other Parties will cooperate on MCWD's increased withdrawal of potable groundwater by up to 1,400 afy from the 900-foot aquifer to enable the increased withdrawals from 5200 afy to 6600 afy for use on Fort Ord, as provided in paragraph 4.c. of the September 1993 Agreement between the The United States of America and the MCWRA.

5.2. No objection by MCWRA to MCWD withdrawals except pursuant to section 22 of Agency Act. The MCWRA shall not object to any withdrawal by MCWD which is mentioned in section 5.1 above, except in compliance with section 22 of the Agency Act. All groundwater withdrawn from the Basin by MCWD may be used only within the Basin.

8.1. Equal treatment by MCWRA and MCWD. If future litigation, regulation or other unforeseen action diminishes the total water supply available to MCWRA, MCWRA agrees that it will exercise its powers so that MCWD, Armstrong and Lonestar shall be no more severely affected in a proportional sense than other lawful users of water from the Zones, based on the right before the imposition of any uniform and generally applicable restrictions as described in paragraph 8.2 to use

at least the quantities of water from the Basin described in paragraphs 5.1., 6.9., and 7.2. MCWRA shall not at any time seek to impose greater restrictions on water use from the Basin by MCWD, Armstrong or Lonestar than are imposed on users either supplying water for use or using water within the city limits of the City of Salinas. MCWD, Armstrong and Lonestar will comply with any basin-wide or area-wide water allocation plans established by the MCWRA which include MCWD, Armstrong and Lonestar, and which do not impose on use of water on the lands described in Exhibits “B”, “C”, and “D” restrictions greater than are imposed on users either supplying water for use or using water within the City of Salinas, and which satisfy the requirement of paragraph 5.2 of this Agreement and Framework.

### ***Groundwater Use by MCWD within the Monterey Subbasin for Fort Ord Lands and Marina Lands***

On October 23, 2001, the U.S. Government through the Secretary of the Army made an economic development conveyance by quitclaiming the following assets to FORA and the next day on October 24, 2001, FORA deeded those very same assets to MCWD: (1) all of Fort Ord’s water and sewer infrastructure; (2) under the 1993 Fort Ord Annexation Agreement, 4,871 AFY of the Army’s 6,600 AFY of MCWRA groundwater allocation with the Army reserving 1,729 AFY; and (3) 2.22 MGD of the Army’s prepaid wastewater treatment capacity under the Army-MRWPCA Agreement. The Army and MCWD have a long-term water supply contract whereby MCWD is authorized to use the Army’s reserved groundwater allocation to serve Federal activities within the former Fort Ord. Consequently, MCWD either owns or manages the 9,620 AFY of the MCWRA groundwater allocations for the benefit of both Fort Ord Lands and Marina Lands.

MCWD has produced 4,300 AFY of groundwater, on average, over the 15 years prior to the historic drought of 2014-2017. Approximately, 1,300 AFY has been produced from the lower 180-foot and 400-foot aquifers, and 2,000 AFY has been extracted from the deep aquifers. Total groundwater extraction from the Monterey Subbasin over the 5 years prior to the historical drought is estimated to be approximately 4,500 AFY on average<sup>5</sup>. Annual production by MCWD for the period between 2000 and 2018 are provided in Attachment B.

### **3. Uncertainty in Water Budget Estimate of Groundwater Inflow Components**

As part of the groundwater inflow components of the water budget, three components entail percolation of water from the land surface down to groundwater, including Streamflow Percolation (Section 6.5.1), Deep Percolation of Precipitation (Section 6.5.2), and Deep Percolation of Excess Applied Irrigation (Section 6.5.3). The fourth source of groundwater inflows included in the groundwater budget is Subsurface Inflows from Adjacent Subbasins (Section 6.5.4), which come from the Forebay Subbasin and the Monterey Subbasin.

There appears to be significant uncertainty in the quantity of each of these inflows as evidenced by the variability in the estimate of deep percolation between the Historical (97,300 AFY) and Future Projected (148,000 to 153,000 AFY) water budgets (see Attachment A). Further, the conceptualization of sources of inflow to the groundwater system is at odds with the description of recharge sources in the Draft Chapter 4. Specifically, Chapter 4 (Section 4.4.3) describes recharge in the 180/400 Subbasin as follows:

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<sup>5</sup> Estimated based on Public Water Systems Statistic Survey (i.e. Form 38) data obtained from the Department of Water Resources.

“Although Figure 4-9 shows some areas of good potential recharge in the 180/400-Foot Aquifer Subbasin, recharge to the productive zones of the Subbasin is very limited because of the low permeability Salinas Valley Aquitard. It is unlikely that any significant surficial recharge in the 180/400-Foot Aquifer Subbasin reaches the productive 180-Foot Aquifer or the 400-Foot Aquifer.”

The amount of recharge stated to occur from the deep percolation sources (97,300 AFY) far outweighs the amount coming from subsurface inflow (20,000 AFY total), which is inconsistent with the description of the recharge sources in Chapter 4.

We understand that there is insufficient information currently available to accurately assess these inflow components. As such, we recommend that the GSP acknowledge this uncertainty and identify it as a data gap. The GSP should provide a plan to further assess both deep percolation and other basin inflow components. Doing so may reveal significantly different recharge sources for the shallow unconfined aquifer system versus the deeper aquifer system which could have important management implications and be critical for evaluating the effectiveness of potential recharge projects.

#### **4. Water budget Information Should be Developed for each Principal aquifer**

Water budget information for each principal aquifer is necessary to verify that proposed future operations of the basin, including implementation of projects and management actions, will not lead to undesirable results in each principal aquifer. Seawater intrusion is occurring in both the 180 Foot Aquifer and the 400 Foot Aquifer, and inland gradients exist within the Deep Aquifer. In order to reach sustainability, hydraulic gradients in each of these aquifers will need to be reversed either through decreasing groundwater extraction and/or future supply augmentation projects. As such, water budgets for each aquifer must be established to verify that undesirable effects do not occur.

We understand that information related to groundwater extraction within individual aquifer zones is currently limited and that water budgets cannot be developed for each principal aquifer zone. As such, we recommend that the GSP acknowledge this uncertainty and identify it as a data gap. The GSP should provide a plan to further assess rates of extraction and inflows within principal aquifer zones so undesirable results, such as seawater intrusion can be mitigated. This information is critical, as achieving sustainability in the basin requires implementation of projects and management actions, which will need to be evaluated against sustainable management criteria in each principal aquifer.

#### **5. Inclusion of “Baseline Condition” Projected Water Budget**

Historic and projected water budgets presented in the GSP are summarized in attached Attachment A. As shown on this attachment, there is significant variability between groundwater inflow components estimated on the basis of historical versus projected future conditions. It is our understanding based upon our discussion, that this discrepancy is related to the method of analysis versus actual projected change in climate<sup>6</sup>. As such, we recommend that the GSP include a future water budget assuming historical “baseline hydrologic conditions” in addition to the 2030 and 2070 climate change scenarios. This information is critical to understanding how much climate change uncertainties affect the basin’s projected sustainable

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<sup>6</sup> Historical conditions are estimated on the basis of an analytical model and projected future water budgets are estimated utilizing the SVIHM Operational Model.

yield, given the significant differences in the methods of analysis and the dramatic increase in estimated deep percolation in future water budget, as discussed above.

Inclusion of this scenario is consistent with GSP Regulations 354.18, (c) (3), which state:

“Projected water budgets shall be used to estimate future baseline conditions of supply, demand, and aquifer response to Plan implementation, and to identify the uncertainties of these projected water budget components. The projected water budget shall utilize the following methodologies and assumptions to estimate future baseline conditions concerning hydrology, water demand and surface water supply availability or reliability over the planning and implementation horizon:

(A) Projected hydrology shall utilize 50 years of historical precipitation, evapotranspiration, and streamflow information as the baseline condition for estimating future hydrology. The projected hydrology information shall also be applied as the baseline condition used to evaluate future scenarios of hydrologic uncertainty associated with projections of climate change and sea level rise.”

## **6. Qualification of Data Gaps and Uncertainty**

It is understandable that a GSP due January 31, 2020, will have data gaps and will be subject to modeling limitations, which create uncertainty. The District understands that SVBGSA intends to prepare this GSP based on the current best available science and information, per the State policy of sustainable, local groundwater management (Water Code § 113). It is important that each data gap, the scope of the resulting uncertainty caused by the data gap specific to the decisions being made in this GSP, and the steps to close the data gap be identified in the GSP. MCWD will work with the SVBGSA to help close the data gaps for adaptive, sustainable management of the 180/400 and Monterey Subbasins.

## **OTHER COMMENTS AND QUESTIONS**

### **Section 6.2**

It appears that in the historical water budget, the surface water budget is limited to just the river channels (i.e., Salinas River, other tributaries, and agricultural drains). It seems that there should be a land surface balance, like there is in the SVIHM-based Projected Water Budget, that estimates precipitation and irrigation percolation based on evapotranspiration (ET) and land use.

### **Section 6.6.2**

Riparian ET rates were described to be 20 AFY/acre per personal communications with Rhode, whose detailed information was not provided in the Chapter’s references. The rates were then assumed to be 16 AFY/acre in the water budget calculation without further justification. Riparian ET rates should be better substantiated, especially since the resulting riparian ET values are significant compared to the average change in storage over the historical period.

In addition, it is unclear why riparian ET is considered as an outflow from groundwater, rather than from surface water.

**Sections 6.8.4, 6.9, 6.10.5, 6.10.6 and associated tables**

Estimated annual seawater water intrusion inflows and annual changes in storage are subtracted from total groundwater pumping to estimate the sustainable yield. This methodology is somewhat confusing to the reader, as it presumes that the change in storage is negative. To avoid confusion, we recommend that changes in storage and seawater intrusion be identified as negative in throughout the chapter, or further clarifying language be included. For example:

- Tables 6-20 and 6-31: We recommend that these tables show the change in storage and seawater intrusion as negative values.
- Table 6-22: A note should be added to Table 6-22 indicating that although seawater intrusion is identified as an inflow to quantify the overall basin water budget, it is not considered part of the sustainable yield.
- Tables 6-27 and 6-28: It is unclear why seawater intrusion is not shown as an inflow component on these tables, given that it is shown as an inflow component in Table 6-25. These tables should be made consistent and clarify that although seawater intrusion is an inflow, it is not considered part of the usable groundwater or sustainable yield.
- Section 6.10.5 and Table 6-30: We suggest clarifying that change in groundwater storage discussed here are decreases in groundwater storage.

**Table 6-22**

Table 6-22 shows a decrease of only 600 AFY, on average, of groundwater in storage based on water level declines during the “current period” (2015-2017). This implies no real decline in water levels – is that what is seen?

Sincerely,



Keith Van Der Maaten

General Manager, Marina Coast Water District

**Attachment A:** Summary of SVBGSA 180/400 Foot Aquifer Subbasin Draft Groundwater Budget Calculations

**Attachment B:** MCWD Groundwater Production by Aquifer, 2000 - 2018

**Attachment A. Summary of SVBGSA 180/400 Foot Aquifer Subbasin Draft Groundwater Budget Calculations**

Groundwater Budget in Average Years		Historical	Current (a) (Table 6-19)	Current (a) (Table 6-22)	Future	Future
<i>Budget Period</i>		<i>1995-2014</i>	<i>2015-2017</i>	<i>2015-2017</i>	<i>2030</i>	<i>2070</i>
Streamflow Deep Percolation	I-1	73,300	31,100	NR	71,541	71,706
Precipitation Deep Percolation	I-2	12,300	11,600	NR	76,333	81,777
Irrigation Deep Percolation	I-3	11,700	4,500	NR	-	-
Subsurface Inflows	I-4	20,000	20,000	NR	30,411	31,706
<b>Total Freshwater Inflow</b>	<b>I = sum I-1 to I-4</b>	<b>117,200</b>	<b>67,200</b>	<b>67,100</b>	<b>178,285</b>	<b>185,189</b>
Pumping	O-1	108,300	109,300	NR	115,349 (b)	120,644 (b)
Riparian Evapotranspiration	O-2	12,000	12,000	NR	-	-
Drain Flows	O-3	-	-	-	7,100	8,024
Flow to Streams	O-4	-	-	-	1,833	1,921
Groundwater ET	O-5	-	-	-	35,127	36,652
Subsurface Outflows	O-6	9,500	3,200	NR	25,440	24,887
<b>Total Freshwater Outflow</b>	<b>O = sum O-1 to O-5</b>	<b>129,800</b>	<b>124,400</b>	<b>130,800</b>	<b>184,849</b>	<b>192,128</b>
Seawater Intrusion	SI	-10,500	-10,500	-10,500	-3,465	-3,852
Change in Storage	DS = DFS - SI	-2,100	-46,800	-53,200	-4,584	-4,653
<b>Change in Freshwater Storage</b>	<b>DFS = I - O</b>	<b>-12,600</b>	<b>-57,300</b>	<b>-63,700</b>	<b>-8,049</b>	<b>-8,505</b>
Sustainable Yield	SY = O-1 + SC	95,700	52,000	NR	107,300	112,139
<i>Error (c)</i>		1%	NR	40%	1%	1%
<i>Net flow from Monterey (d)</i>		3,000	3,000	NR	5,502	6,208

Notes:

- = Items not applicable to the specific calculation method

NR = not reported

(a) Values are reported differently on Tables 6-19 and 6-22.

(b) This summary shows values from Table 6-27 and after. Values are reported differently on Table 6-26 .

(c) Calculated as the water budget imbalance as a percentage of outflow. For the current water budget, change in storage estimated from water levels were -600 AFY compared to -53,200 AFY as estimated by balancing the water budget.

(d) Net subsurface flow from the Monterey Subbasin as assumed or estimated in the analyses.



**Attachment B. MCWD Groundwater Production by Aquifer, 2000 - 2018**

Year	Groundwater Production (AFY)		
	180-Foot and 400-Foot Aquifers	Deep Aquifer	Total
1999	2,396	2,021	4,417
2000	2,371	2,194	4,565
2001	2,228	2,150	4,378
2002	2,137	2,239	4,376
2003	2,144	2,162	4,306
2004	2,423	2,261	4,684
2005	1,994	2,194	4,188
2006	2,509	1,786	4,295
2007	2,941	1,622	4,563
2008	2,269	1,833	4,102
2009	2,076	1,962	4,038
2010	2,389	1,744	4,133
2011	2,348	1,698	4,047
2012	2,345	1,829	4,174
2013	2,420	2,011	4,431
2014	1,658	2,368	4,026
2015	1,258	1,970	3,228
2016	1,195	1,830	3,025
2017	1,159	2,079	3,239
2018	1,129	2,276	3,405
<i>Pre-drought Average, 2000-2014</i>	2,283	2,004	4,287



# MARINA COAST WATER DISTRICT

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24 May 2019

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Salinas Valley Basin Groundwater Sustainability Agency  
1441 Shilling Place  
Salinas, CA 93901

Mr. Derrick Williams  
Montgomery & Associates  
1232 Park Street, Suite 201B  
Paso Robles, CA 93446

Dear Mr. Peterson and Mr. Williams,

Thank you for taking the time to meet with us and our SGMA consultant EKI Environment & Water, Inc. The purpose of this letter is to:

- (1) Summarize agreements reached regarding coordination with Marina Coast Water District Groundwater Sustainability Agency (MCWD GSA) representatives during development of the 180/400 Foot Aquifer Subbasin Groundwater Sustainability Plan (180/400 Subbasin GSP); and
- (2) Provide a written summary of MCWD GSA General comments on Draft Chapter 8 of the 180/400 Subbasin GSP.

## COORDINATION WITH MCWD GSA

It was agreed that MCWD GSA and SVBGSA staff members and technical consultants would meet monthly to aid coordination efforts between these entities during the preparation of the SVBGSA 180/400 Subbasin GSP. The following schedule has been established for these meetings:

- Day: 2<sup>nd</sup> Thursday of every month
- Time: 10:30 a.m.
- Location: MCWD offices located at 11 Reservation Road, Marina, California

If GSA representatives and/or their consultants are unavailable, alternative arrangements may be made.

The purpose of these meetings will be to:

- Discuss 180/400 Subbasin GSP draft chapters that have been released, and
- discuss comments provided by MCWD GSA, and how and/or if they will be incorporated into the GSP.

This schedule has been established to allow MCWD representatives to review and provide draft comments to SVBGSA on draft chapters released to the Planning Committee at the beginning of each month, and allow for incorporation of such comments, to the extent they are agreed upon, prior to presentation of the Draft Chapter to the SVBGSA Board the following month.

**GENERAL COMMENTS REGARDING 180/400 SUBBASIN GSP DRAFT CHAPTER 8: SUSTAINABLE MANAGEMENT CRITERIA**

MCWD GSA concurs with draft saltwater intrusion sustainable management criteria (SMC) identified for the 180/400 Subbasin. These SMC are summarized in Table 1 below:

**TABLE 1  
180/400 Subbasin Sustainable Management Criteria for  
Seawater Intrusion**

	<b>180 Foot Aquifer</b>	<b>400 Foot Aquifer</b>	<b>Deep Aquifer</b>
<b>Minimum Threshold</b>	500 mg/L chloride concentration isocontour as mapped by MCWRA <sup>1</sup> for 2017	500 mg/L chloride concentration isocontour as mapped by MCWRA for 2017	500 mg/L chloride concentration isocontour as defined by Highway 1.
<b>Measurable Objective</b>	Move 500 mg/L chloride concentration isocontour to Highway 1	Move 500 mg/L chloride concentration isocontour to Highway 1	500 mg/L chloride concentration isocontour as defined by Highway 1.
<b>Undesirable Result</b>	“On average in any one year there shall be no exceedances of any minimum threshold.”	“On average in any one year there shall be no exceedances of any minimum threshold.”	“On average in any one year there shall be no exceedances of any minimum threshold.”

However, as discussed during our meeting, draft groundwater elevation SMC are not consistent with draft salt water intrusion SMC. Draft groundwater elevation SMC are below mean sea level and will maintain landward gradients that will exacerbate salt water intrusion in the 180/400 Foot Aquifer Subbasin and the Monterey Subbasin. Based upon our discussion, it is our understanding that SVBGSA intends to propose projects that will address saltwater intrusion (e.g., extraction barrier and/or injection barriers). In order for such projects to achieve draft salt water intrusion SMC, seaward gradients within the 180 Foot Aquifer and 400 Foot Aquifer will need to be established. Although, there are several methods by which seaward gradients can be established, all of these methods will require modifications to the proposed water level SMC. For example, even if an extraction barrier is proposed, water level elevation SMC will need to be reduced near the ocean. Although SMC at individual monitoring wells may not yet be available, Chapter 8 should clearly articulate that currently identified SMC will not achieve the saltwater intrusion SMC and stop undesirable results, and will need to be updated on the basis of identified projects.

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<sup>1</sup> Monterey County Water Resource Agency (MCWRA)

As currently presented, the groundwater elevation SMC will draw saltwater further inland. These groundwater elevation SMC will also eliminate any potential sustainable groundwater extraction within the Monterey Subbasin. Pursuant to GSP Regulation 350.4 (f), cited below, the 180/400 Subbasin GSP is required to consider the effects of its implementation on the adjacent Monterey Subbasin, and its ability to achieve and maintain sustainability.

*“A Plan will be evaluated, and its implementation assessed, consistent with the objective that a basin be sustainably managed within 20 years of Plan implementation without adversely affecting the ability of an adjacent basin to implement its Plan or achieve and maintain its sustainability goal over the planning and implementation horizon.”*

The Monterey and 180/400 Subbasins are hydraulically connected, therefore the SVBGSA SMC for the 180/400 Subbasin must address inland gradients and cross-boundary groundwater flows from the Monterey Subbasin into the 180/400 Foot Subbasin. Unless alternative water supplies are provided by SVBGSA, groundwater inflows to the Monterey Subbasin must be adequate to sustain groundwater extraction by MCWD from its water production wells at levels established under the 1996 Marina Area Lands Annexation Agreement (Annexation Agreement and Groundwater Mitigation Framework for Marina Area Lands dated March 1996), and the 1993 Fort Ord Annexation Agreement (Agreement concerning the Annexation of Fort Ord into Zones 2 and 2A of the MCWRA dated September 21, 1993)<sup>2</sup>.

As such, cumulative freshwater cross-boundary flows into the Monterey Subbasin must be adequate to support production of 9,620 AFY from MCWD Wells without inducing inland gradients.

Groundwater modeling should be utilized to establish minimum thresholds for groundwater levels and hydraulic gradients within each aquifer zone to yield adequate cross-boundary flows between the 180/400 Subbasin and the Monterey Subbasin. Such modeling should incorporate the effects of projects proposed as part of the 180/400 Subbasin GSP. Modeling should be utilized to verify that these cross-boundary flows will allow MCWD to extract potable groundwater from its existing wells consistent with the 1996 and 1993 Annexation Agreements or that alternative water supplies will be provided to MCWD. The model should also consider groundwater use in the Corral de Tierra area, which is being managed by SVBGSA. Finally, an adequate groundwater monitoring network will need to be established along the 180/400 Subbasin and Monterey Subbasin boundary, to assess water levels and hydraulic gradients and verify that minimum thresholds and sustainability goals are being achieved and maintained.

MCWD GSA is willing to collaborate and discuss modeling results, potential distribution of groundwater extractions by aquifer, and anticipated projects in the Monterey Subbasin to assist with SVBGSA in developing a GSP that allows Sustainable Groundwater Management Act compliance in both basins.

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<sup>2</sup> Under the 1996 Marina Area Lands Annexation Agreement, Monterey County Water Resources Agency (MCWRA) allocated 3,020 AFY of potable groundwater to MCWD. Under the 1993 Fort Ord Annexation, MCWRA allocated 6,600 AFY of potable groundwater to the Army. In 2000, the Army entered into an exclusive contract with MCWD to meet all potable water demands by the Army and the BLM within the former Fort Ord and authorized MCWD to use the Army's reserved groundwater allocation to meet those demands. In October 2001, the U.S. Army transferred to the Fort Ord Reuse Authority (FORA) and FORA in turn transferred to MCWD title to all of the Army's then existing water and sewer infrastructure and the 6,600 AFY of potable groundwater, except for 1,577 AFY reserved by the Army to meet Federal water demands within the former Fort Ord. In 2007, the California Department of Public Health granted MCWD's request to combine the Central Marina and Ord Community services areas into one combined water system permit. Consequently, MCWD owns or manages 9,620 AFY of potable groundwater allocations to serve its combined Central Marina and Ord Community service areas.

## DEEP AQUIFER

No SMC are currently identified for the Deep Aquifer. We recognize that limited information is available for the Deep Aquifer and that much of it is proprietary. However, as noted in our comments on Chapter 5 of the GSP, cumulative hydrographs from existing monitoring wells should be presented and total rates of extraction from the deep zone identified. MCWRA's report entitled "2017 Recommendations to Address the Expansion of Seawater Intrusion in the Salinas Valley Groundwater Basin" (2017 MCWRA Report)<sup>3</sup> states that there are 32 active production wells and eight monitoring wells screened in the deep aquifers, and that MCWRA monitors groundwater levels at thirteen locations in the Deep Aquifers "with varying frequency", a majority of which are located in the 180/400 Foot Aquifer Subbasin. Figure 18 of the 2017 MCWRA Report identifies the general location of these wells and Figure 21 depicts average groundwater level changes in the Deep Aquifer from 1986 to 2016 (Attachment A).

Figure 21 shows that average groundwater levels in the Deep Aquifer gradually decreased between 1986 and 1997, rebounded after CSIP start-up in 1998, and have gradually decreased again over the past two decades. Hydrographs from the United States Geologic Survey ("USGS") Deep Aquifer nested Monitoring well (14501E24L02,03,04,05) in Marina<sup>4</sup>, located along the coast of the Monterey Subbasin (Attachment B), also show that water level declines in the Deep Aquifer (Attachment B), particularly since 2015. This decline is consistent with increased production from the Deep Zone in the 180/400 foot Aquifer Subbasin. Deep Zone production rates are presented on Figure 23 of the 2017 MCWRA Report (Attachment A). Based upon this information, SMC should be established for the Deep Aquifer to stop further water level declines. Water levels in this aquifer are below sea level and declining; therefore, the potential for salt-water intrusion into this aquifer is increasing. Given that the Deep Aquifer provides the only source of potable water in salt-water intruded areas other than the Castroville Seawater Intrusion Project (CSIP), projects should be prioritized to provide alternative water supplies to these areas or management actions should be implemented to reduce withdrawals from the Deep Aquifer.

Sincerely,

Keith Van Der Maaten

General Manager, Marina Coast Water District

### **Attachment A:** Selected Figures from 2017 MCWRA Report

Figure 18 – Wells in the Deep Aquifers

Figure 21 - Average Groundwater Level Changes in the Deep aquifers from 1986 to 2016

Figure 23 – Total Annual Groundwater Extractions from the Deep Aquifers in Zone 2A (1995 – 2016)

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<sup>3</sup> MCWRA, 2017. Recommendations to Address the Expansion of Seawater Intrusion in the Salinas Valley Groundwater Basin" Special Reports Series 17-01, Dated October 2017.

<sup>4</sup> USGS, 2002. Geohydrology of a Deep-Aquifer System Monitoring Well Site at Marina, Monterey County, CA, Water Resources Investigations Report 02-4003 prepared by RT Hanson, Rhett R. Everett, Mark W. Newhouse, Steven M. Crawford, M. Isabel Pimentel, and Gregory A. Smith in cooperation with the MCWRA, dated 2002.

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**Attachment B:** USGS, 2002. Geohydrology of a Deep-Aquifer System Monitoring Well Site at Marina, Monterey County, CA, Water Resources Investigations Report 02-4003

Figure 1 - Location of Deep Aquifer system Monitoring Well

Figure 2 – Well Construction and Lithology for the Deep Aquifer Monitoring Well

**Attachment C:** Water level data from USGS Monitoring Well (14501E24L02,03,04,05)

## **Attachment A**

Selected Figures from 2017 MCWRA Report (Recommendations to Address the Expansion of Seawater Intrusion in the Salinas Valley Groundwater Basin” Special Reports Series 17-01, Dated October 2017).

Figure 18 – Wells in the Deep Aquifers

Figure 21 - Average Groundwater Level Changes in the Deep aquifers from 1986 to 2016

Figure 23 – Total Annual Groundwater Extractions from the Deep Aquifers in Zone 2A (1995 – 2016)

### 5.2.4 Wells in the Deep Aquifers

The use of the Deep Aquifers for groundwater production has been driven by the need to drill deeper in order to avoid seawater intrusion, with wells being installed to subsequently deeper elevations with fresh-water-bearing materials (Feeney and Rosenberg, 2003). Most available hydrogeologic data on the Deep Aquifers have been obtained through well drilling activities and related well or aquifer testing rather than through an intentional aquifer-wide study. Wells of all types have been installed in the Deep Aquifers, including production wells for agricultural purposes; domestic, industrial, and municipal water supply wells; and monitoring wells.

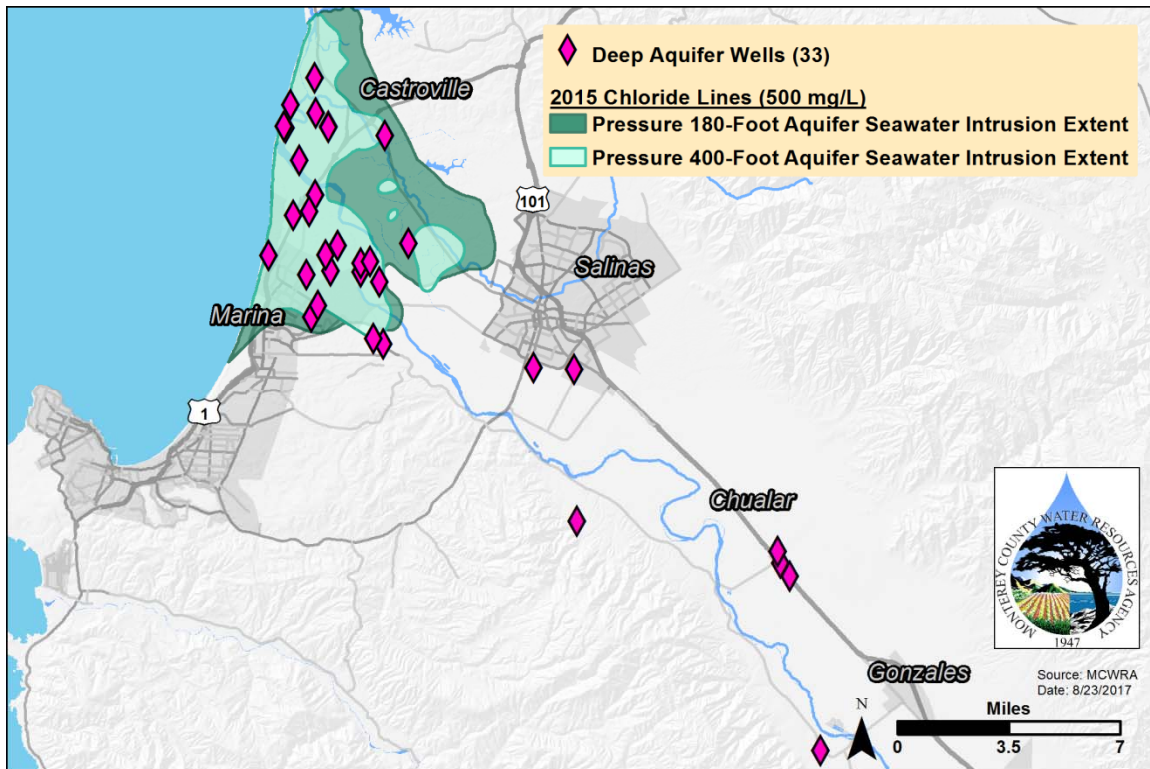


Figure 18- Wells in the Deep Aquifers

### 5.2.5 Well Installation History in the Deep Aquifers

The first production well in the Deep Aquifers was installed in 1974. As of August 1, 2017, a total of 41 wells have been installed in the Deep Aquifers: 33 production wells and 8 monitoring wells (Figure 19). One of the production wells was destroyed in 2004, so 40 wells remain in the Deep Aquifers at present. Of the 32 existing production wells, 18 are agricultural wells, 7 are municipal wells, 3 are residential wells, 3 are industrial wells, and one has an unknown usage.

Well Completion Reports for wells in the Deep Aquifers are provided in Appendix E and a table detailing installation dates, depths, and well types for the Deep Aquifers can be found in Appendix F.



the Deep Aquifers rapidly increased and then leveled off until approximately 2006, when groundwater levels began to decline once again (Figure 21).

To date, seawater intrusion has not been documented in the Deep Aquifers, even though groundwater levels in the Deep Aquifers are consistently below sea level. This lack of seawater intrusion in the Deep Aquifers may be due, at least in part, to the geologic setting (Feeney and Rosenberg, 2003).

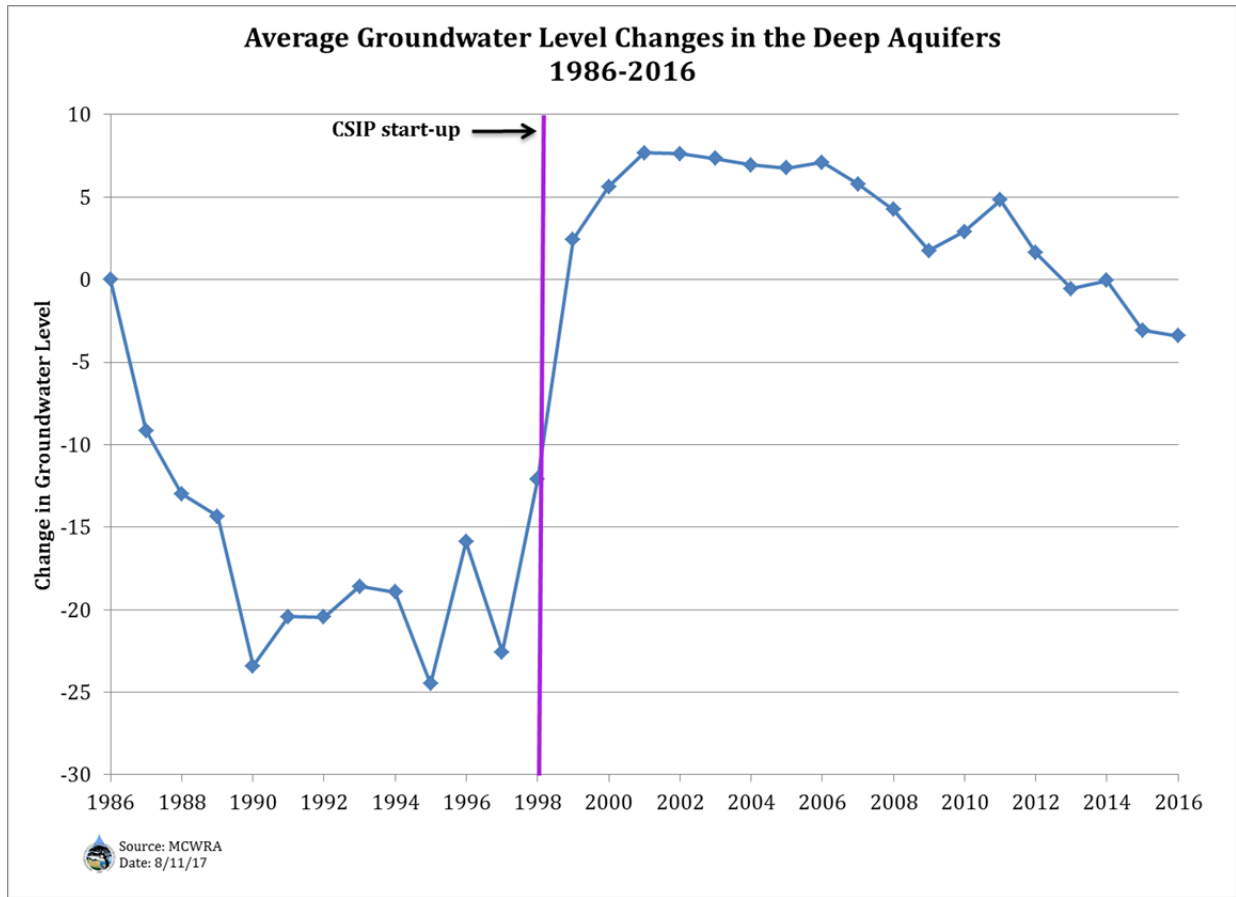


Figure 21 - Average Groundwater Level Changes in the Deep Aquifers (1986-2016)

### 5.2.8 Groundwater Quality in the Deep Aquifers

Water quality in the Deep Aquifers has been monitored by the Agency since 1976. Data are collected during two sampling events that occur annually in the summer. Samples are collected from seventeen wells in the Deep Aquifers and analyzed for major cations and anions.

Native groundwater in the Deep Aquifers has a distinct character, with a higher pH than groundwater in the overlying aquifers, relatively low calcium and high sodium concentrations, and an elevated temperature. The Piper diagram in Figure 22 illustrates the similarities in the chemical compositions of native groundwater in the Pressure 180-Foot and Pressure 400-Foot Aquifers

### 5.2.9 Extraction from Wells in the Deep Aquifers

The Agency receives data on groundwater extractions from wells in the Deep Aquifers as part of its Groundwater Extraction Management System (GEMS) program. These data, which exist from 1993 to present, indicate that groundwater pumping in the Deep Aquifers decreased for a short period following startup of CSIP in 1998 (Figure 23). However, since 2002, total annual pumping from the Deep Aquifers has been generally increasing as more wells are installed. Total annual extractions from the Deep Aquifers, for the period 1995 through 2016, range from 2,151 acre-feet (in 1999) to 8,901 acre-feet (in 2016).

Groundwater pumping from wells in the Deep Aquifers is thought to be supported primarily by leakage from the overlying aquifer system, i.e. the Pressure 180-Foot Aquifer and Pressure 400-Foot Aquifer (Feeney and Rosenberg, 2003). Some groundwater pumping is derived from depletion of groundwater storage, but hydraulic properties of the Deep Aquifers (specifically storage coefficients) suggest that while some groundwater may come from storage immediately following the onset of pumping a well, very little groundwater can be removed from storage over time. Therefore, increases in groundwater pumping in the Deep Aquifers will likely be supported by increased leakage from the overlying aquifers (Feeney and Rosenberg, 2003).

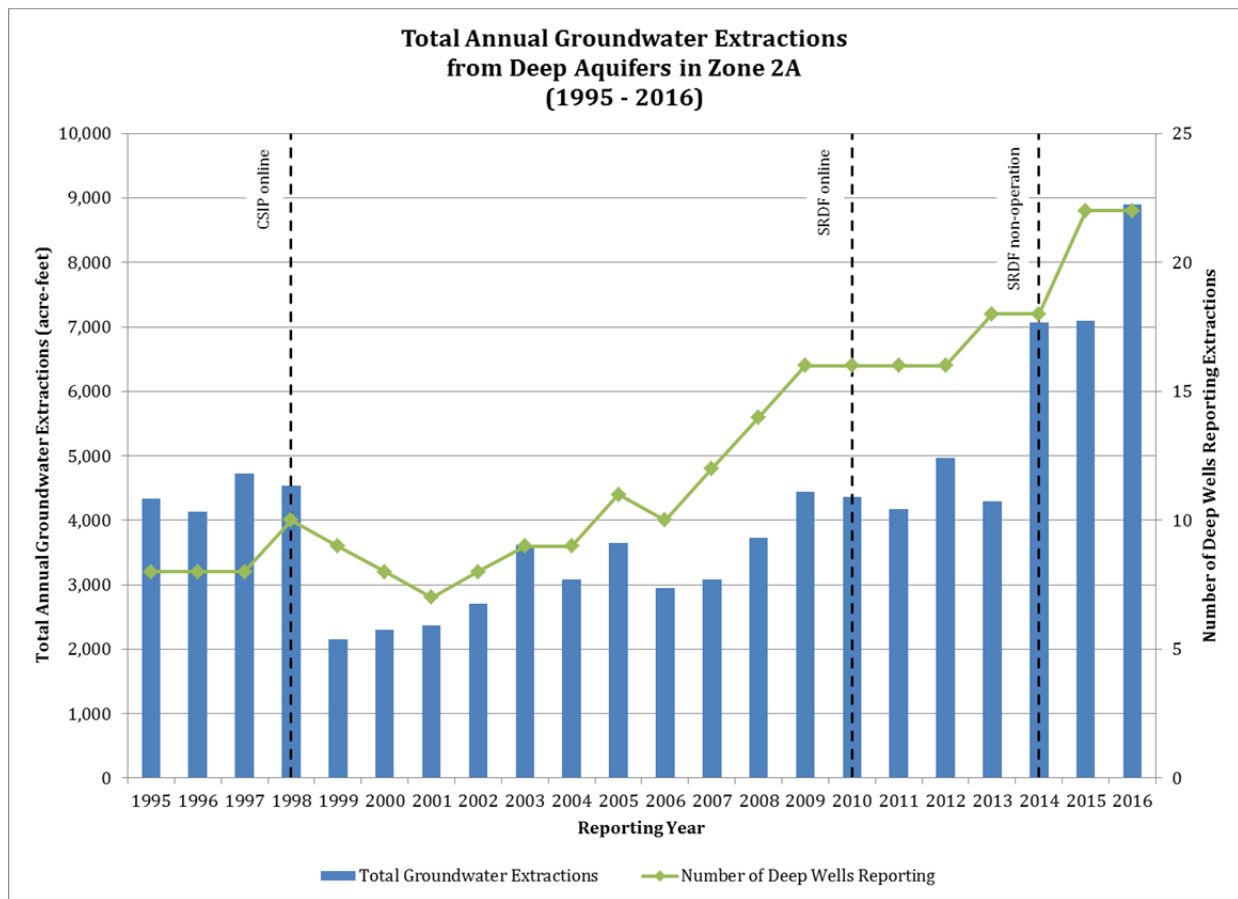


Figure 23 - Total Annual Groundwater Extractions from Deep Aquifers in Zone 2A (1995-2016)

## **Attachment B**

USGS, 2002. Geohydrology of a Deep-Aquifer System Monitoring Well Site at Marina, Monterey County, CA, Water Resources Investigations Report 02-4003

Figure 1 - Location of Deep Aquifer system Monitoring Well

Figure 3 – Well Construction and Lithology for the Deep Aquifer Monitoring Well

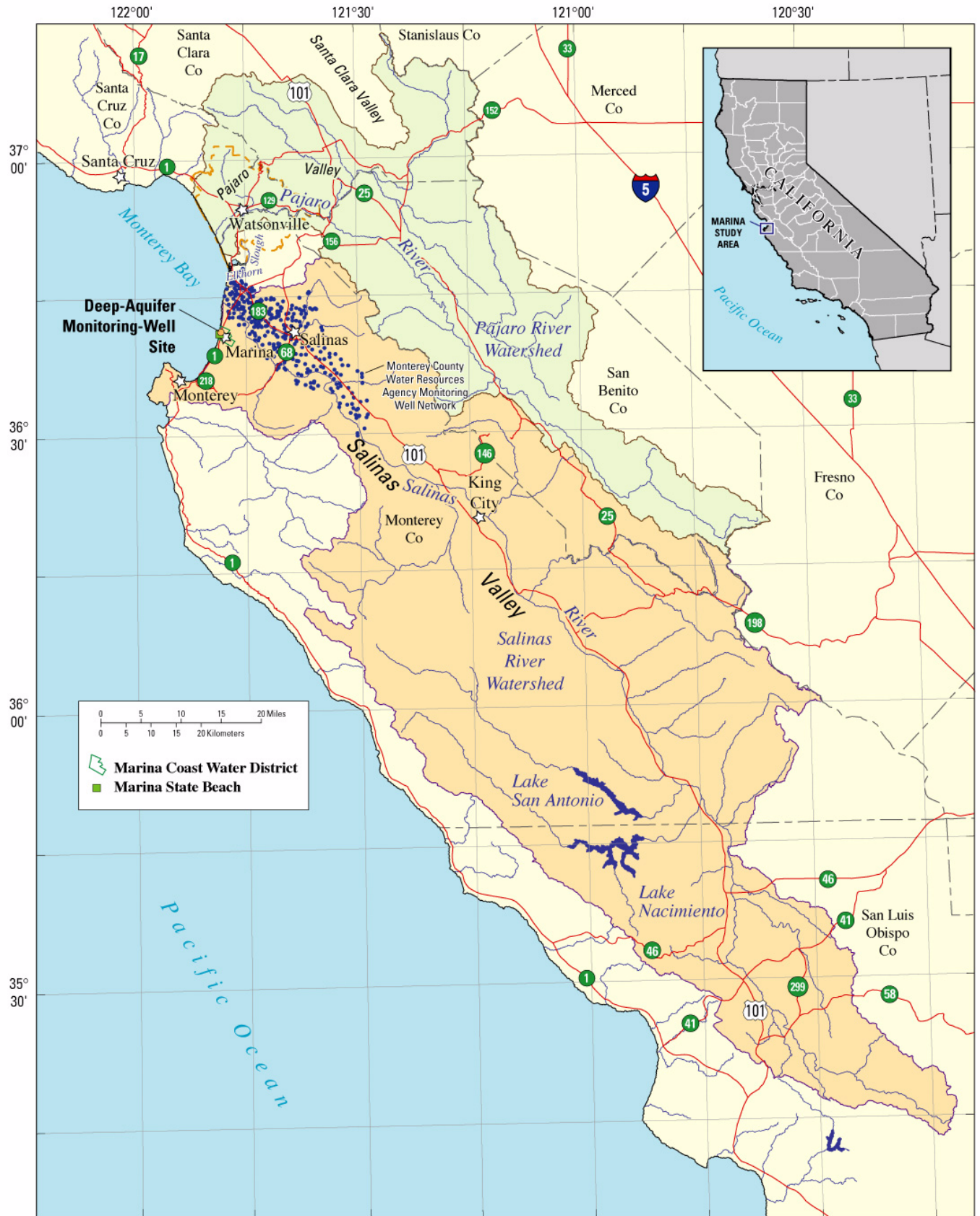
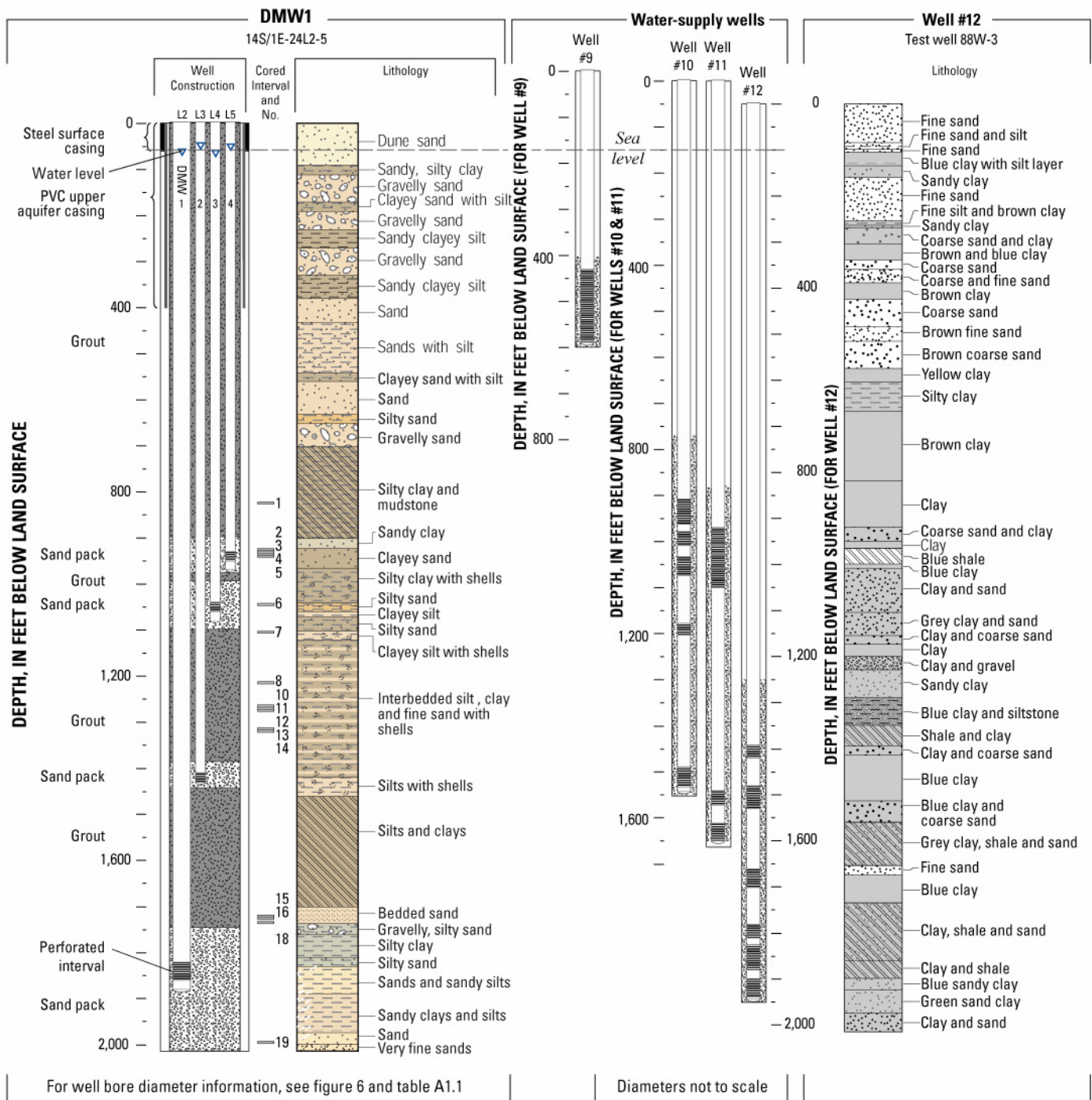


Figure 1. Location of deep-aquifer system monitoring-well site in the Salinas Valley at Marina, California.



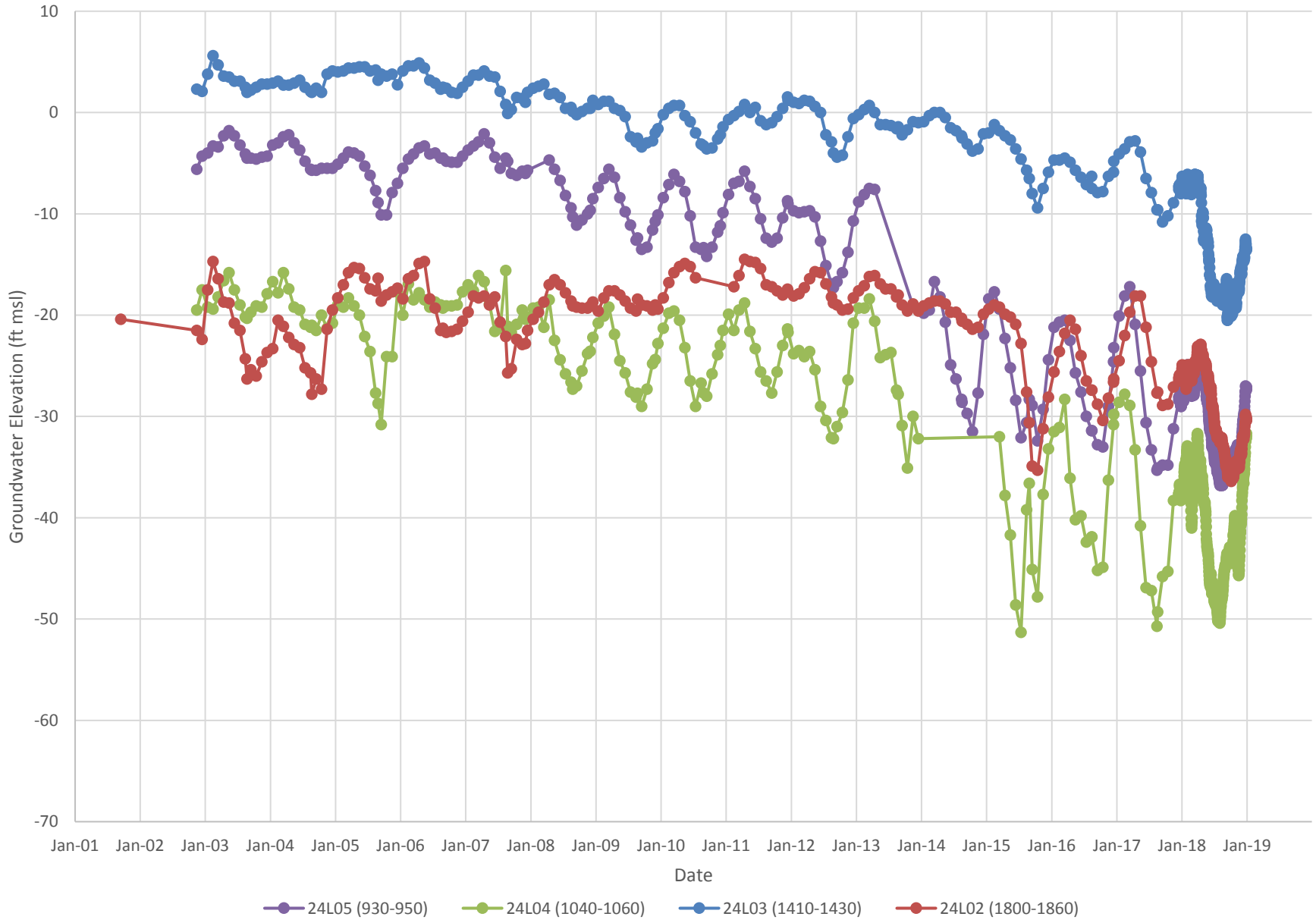
**Figure 3.** Well construction and lithology for the deep-aquifer monitoring well and selected nearby water-supply wells, Marina, California.

**Attachment C**

Water Level Data from USGS Monitoring Well (14501E24L02,03,04,05)



Groundwater Elevation in USGS Monitoring Well (14S01E24L02,03,04,05)





# MARINA COAST WATER DISTRICT

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Dear Mr. Peterson and Mr. Williams,

Thank you for taking the time to meet with us and our SGMA consultant EKI Environment & Water, Inc. regarding Draft Chapter 9 (Projects and Management Actions) of the 180/400 Foot Aquifer Subbasin Groundwater Sustainability Plan (180/400 Subbasin GSP) on 10 July 2019. Based upon further review of Draft Chapter 9, we have expanded our comments beyond those discussed during the meeting. This letter provides MCWD GSA's initial comments on Draft Chapter 9. We realize that the actions and projects described in Chapter 9 will be refined and new actions and projects added through an iterative process involving all of the stakeholders.

### **1. Pumping Allowance (Section 9.2.2)**

As written, the document implies that municipalities may not receive a sustainable pumping allowance and will need to pay more than agricultural users to pump their base amount. Municipal water purveyors, such as MCWD, have acquired appropriative rights through pumping, which pumping has prescribed against overlying rights. The GSP needs to provide that MCWD's MCWRA groundwater allocations are the sustainable pumping allowances for Fort Ord Lands and Marina Area Lands pursuant to the annexation agreements described below.

1993 Fort Ord Lands Annexation Agreement: On September 21, 1993, the U.S Government, as represented by the U.S. Army, entered into the Agreement between the United States of America and the Monterey County Water Resources Agency concerning Annexation of Fort Ord into Zones 2 and 2A of the Monterey County Water Resources Agency (1993 Annexation Agreement). The annexed Fort Ord Lands consisted of all lands within the then existing boundaries of Fort Ord, which included all of the lands that were later transferred to the Fort Ord Reuse Authority. MCWRA allocated 6,600 AFY of groundwater within the then defined Salinas Basin for use within the Fort Ord Lands and recognized withdrawals from the Seaside Basin by Fort Ord of 424 AFY. In consideration for the annexation, the U.S. Government paid MCWRA an annexation fee of \$7,400,000. Federal lands were exempt from Zone 2 and 2A assessments, but lands transferred for non-Federal uses, such as for Base Reuse, were required to pay those assessments.



The MCWRA Backstop: Section 4g stated, “Should future litigation, regulation or other unforeseen action diminish the total water supply available to the MCWRA, the MCWRA agrees that it will consult with the Fort Ord/POM Annex Commander. Also, in such an event, the MCWRA agrees to exercise its powers in a manner such that Fort Ord/POM Annex/RC shall be no more severely affected in a proportional sense than the other members of the Zone.”

Section 4i recognized that the Federal Government was “considering transferring the ownership and operation of the Fort Ord wells and water distribution system to a successor water purveyor, utility, or agency. Under such a transfer, the MCWRA agrees that the *Government, in its sole discretion, may transfer its applicable water rights under this agreement to the successor water purveyor, utility, or agency.*” [Emphasis added.] By quitclaim deed dated October 23, 2001, the Federal Government transferred all of the Government’s ownership in the Fort Ord water system infrastructure and 4,871 AFY of 6,600 AFY of groundwater under the 1993 Annexation Agreement to the Fort Ord Reuse Authority (FORA). On October 24, 2001, FORA in turn quitclaimed all of that infrastructure and the 4,871 AFY of groundwater to MCWD.

MCWD intends to use the 4,871 AFY of groundwater to provide water service to those jurisdictions within MCWD’s Ord Community Service Area, which are entitled to water service under those rights pursuant to the Fort Ord Base Reuse Plan.

1996 Marina Area Lands Annexation Agreement: In March 1996, the Monterey County Water Resources Agency, MCWD, the J.G. Armstrong Family Members, RMC Lonestar (now CEMEX), and the City of Marina entered into the Annexation Agreement and Groundwater Mitigation Framework for Marina Area Lands. Section 1.1 states,

“The purpose of this Agreement and Framework is to help reduce seawater intrusion and protect the groundwater resource and preserve the environment of the Salinas River Groundwater Basin through voluntary commitments by the Parties to limit, conserve and manage the use of groundwater from the Salinas River groundwater basin, and to provide the terms and conditions for the annexation of certain territory in the Marina area to the Monterey County Water Resources Agency’s benefit assessment Zones 2 and 2A as a financing mechanism providing additional revenues to the Monterey County Water Resources Agency to manage and protect the groundwater resources in the Salinas River Groundwater Basin and to reduce seawater intrusion.”

The agreement provided for a potable groundwater allocation of 3,020 AFY for use by MCWD for its Central Marina service area. The agreement also provided for 920 AFY for non-agricultural use on the Armstrong Ranch upon annexation to Zones 2 and 2A. Under the 1996 Annexation Agreement, Lonestar agreed to limit its overlying groundwater right to not more than its historic use of 500 AFY of non-potable water on the overlying CEMEX property in exchange for MCWRA agreement on specified annexation fees when Lonestar requested annexation to the Zones.

The 1996 Annexation Agreement established “a contractual process for the exercise of regulatory authority by the MCWRA under Water Code App. Section 52-22, and the MCWD under Water Code section 31048.” (MCWRA Negative Declaration re: Annexation of Marina Area Lands to Zones 2/2A, dated February 21, 1996, at p. 4.)

The 1996 Annexation Agreement (Sec. 5.9) required MCWD to pay a \$2,849,410 annexation fee to MCWRA less a credit of \$400,000. Standby charges and assessments were then levied and collected by the MCWRA on an annual basis on all Marina Area Lands. Section 8.4, Use of Annexation Fees, states,

“Annexation fees from the MCWD service area, the Armstrong Ranch and the Lonestar Property shall be used by MCWRA to pay the costs of a BMP [Salinas River Basin Management Plan] process that includes mitigation plans for the Marina Area based on the planning guidelines contained in this Agreement and Framework. Such annexation fees shall also be used for management and protection of the ‘900-foot aquifer.’”

In 2003, Zones 2 and 2A were replaced by a new Zone 2C to collect assessments for the operation and maintenance of Nacimiento and San Antonio Dams to reduce flooding impacts on the Salinas River and provide water conservation with consideration given to recreation, and for dam administration, Salinas River Channel maintenance, construction of the Salinas River Diversion Facility (rubber dam), and cloud seeding.

The Fort Ord Lands and the Marina Area Lands have yet to receive any direct benefits from the Nacimiento and San Antonio Reservoirs.

MCWRA’s Obligation to Protect the Deep Aquifer for MCWD’s Use: Section 5.3, Management of 900-foot aquifer, provides, “The Parties agree that the ‘900-foot’ aquifer should be managed to provide safe, sustained use of the water resource, and to preserve to MCWD the continued availability of water from the ‘900-foot’ aquifer.” Section 5.9 further stated that the annexation fees paid by MCWD “shall also be used for management protection of the ‘900-foot aquifer.’”

Section 8.1, Equal treatment by MCWRA and MCWD, provides in part, “MCWRA shall not at any time seek to impose greater restrictions on water use from the Basin by MCWD, Armstrong or Lonestar than are imposed on users either supplying water for the use or using water within the city limits of the City of Salinas.”

For the above reasons, the SVBGSA needs to assign as the sustainable pumping allowances for Fort Ord Lands and Marina Area Lands the groundwater allowances provided in the 1993 and 1996 Annexation Agreements.

As agreed upon during our meeting, the GSP should state that the appropriate and prescriptive groundwater rights of municipal water purveyors, previous water management agreements with the MCWRA, as well as previous payments to zones of benefit will be considered in the development of sustainable allowances for municipalities.

## **2. Water Charges Framework (Section 9.2)**

The water charges framework outlined in Section 9.2 states that:

*A similarly structured water charges framework will be implemented in all Salinas Valley subbasins in Monterey County. However, details such as pumping allowance quantities, pumping fees, and tier structures will be different for each subbasin. These differences will reflect the fact that each subbasin’s water charges framework is based on the specific hydrogeology and conditions of that subbasin.*

*Sustainable Pumping Allowances are a base amount of groundwater pumping assigned to each non-exempt groundwater pumper. The sum of all sustainable pumping allowances is the sustainable yield of the subbasin after all projects have been implemented.*

The sustainable pumping allowances cannot be tied to “sustainable yield of the subbasin after all projects have been implemented”, because some projects will have more localized benefits and/or losses to certain subbasins versus others. For example, if water is recharged or extracted from a given subbasin as part of a large-scale basin-wide project, that project will significantly impact the sustainable yield of that subbasin. Therefore, SVBGSA could effectively determine the sustainable yield of a subbasin depending upon which projects are implemented. Further, given existing inland cross boundary flows, subbasins such as the Monterey Subbasin, could be allocated no sustainable yield. We recommend that SVBGSA consider using some estimate of the “natural safe yield” within each subbasin (i.e. pre-groundwater extraction) to determine the sustainable pumping allowance for each basin. This methodology has been used in multiple adjudications throughout California and is being utilized as part of SGMA within the Kern Subbasin.

### **3. Management Actions, Projects, and Alternative Projects (collectively, Actions/Projects); Replenishment Water**

It is universally agreed that a major key to achieving groundwater sustainability within an overdrafted subbasin is Replenishment Water to the extent Replenishment Water can be made available.

It is recommended that the primary objectives of the Actions/Projects should be:

- (1) Provide Replenishment Water to North County in substitution for groundwater. For example, a 10% substitution by 2030 and a 25% substitution by 2040.
- (2) Repeal seawater intrusion – a mission that the MCWRA has had since the 1940’s.

The Chapter 9 list of Actions/Projects are a good start. However, there are combinations of Actions/Projects that appear to produce greater synergy, i.e., Actions/Project when implemented in combination appear to be more water-efficient and cost-effective in reducing undesirable results and producing Replenishment Water for use within the 180/400 Foot Aquifer Subbasin with benefits for the Monterey, Eastside, and potentially Seaside Subbasins. In other words, synergistic combinations of Actions/Projects, consisting of Chapter 9 and other projects, could produce “more bang for the buck.” The “bang” is producing and delivering Replenishment Water and reducing undesirable results.

Draft Chapter 9 mentions implementing combinations of Actions/Projects. The following are first cut, suggested combinations of Actions/Projects for consideration for inclusion in Chapter 9:

3.1. Direct Replenishment Water - Actions/Projects #1: The following are suggested combinations of Actions/Projects to reduce groundwater pumping in the 180/400 Foot Aquifer Subbasin by the direct use of recycled water and surplus Salinas River water during the irrigation season (Direct Replenishment Water):

- MA2: Reservoir Reoperation
- PP1: Invasive Species Eradication
- PP2: Optimize CSIP Operations

- PP3: Improve SRDF Diversion (including installing Radial Collectors to increase ability to divert more water when water is available)
- PP5: Expand Area Served by CSIP
- PP6: 11043 Diversion Facilities
- PP5: Expand Area Served by CSIP

The Salinas Valley has evolved over time to become dependent upon groundwater for approximately 95% of the water use within the Salinas Valley and upon the Salinas River and the Nacimiento and San Antonio Reservoirs to provide river flows to seep into the groundwater aquifers for recharge and not for direct irrigation and municipal and industrial uses. As stated in MA2, that type of operation mostly benefits the Upper Valley and Forebay Subbasins, which are closest to the reservoirs, and with little benefits to either the East Side (subbasin with the highest CASEGEM score) or the Critically Overdrafted 180/400 Foot Aquifer Subbasins, yet all non-Federal landowners within the Pressure Zone pay benefit assessments to the MCWRA for Nacimiento and San Antonio Reservoirs.

Salinas River water operations to provide seepage flows for groundwater recharge is diametrically different from water operations in the Sacramento Valley and the North San Joaquin Valley where direct delivery of surface water for irrigation is the core agricultural water source for farms within agricultural water districts. For example, within the Modesto Subbasin and Turlock Subbasin, the Modesto, Turlock, and Oakdale Irrigation Districts in average water years will divert approximately 1,000,000 AF of Tuolumne and Stanislaus River water for delivery to their farmers. MCWD's general counsel Griffith & Masuda is also general counsel to the Turlock Irrigation District.

The synergy of Reservoir Reoperation, Invasive Species Eradication, Improve SRDF Diversion, and 11043 Diversion Facilities could efficiently and effectively provide additional river Replenishment Water for the 180/400 Foot Aquifer Subbasin thereby reducing pumping and assisting in halting seawater intrusion without reducing benefits to the Upper Valley and Forebay Subbasins.

Section 9.4.4.7, Preferred Project 6: 11043 Diversion Facilities, incorrectly states that diversions under this permit can only occur at the two diversion locations (near Soledad (within Forebay Aquifer) and Chualar) identified in the original July 11, 1949 Water Rights Application 13225. Points of diversions under a permit can be changed or a new point of diversion added with the filing of a change petition pursuant to Water Code Sections 1701.2, et seq. MCWRA's Amended Water Rights License 7543, Amended License 12624, and Amended Permit 21089 already designate the SRDF Diversion as an authorized point of redirection. Those licenses and permits were amended to comply with the NMFS' Biological Opinion. Therefore, water stored under those water rights is already authorized to be diverted at the SRDF. The Reservoir Reoperation Management Action already has the stated goal of operating the two reservoirs so as to "Allow both natural and surplus flows to better reach the SRDF diversion." Adding the SRDF as an additional point of diversion under Permit 11043 would conform that permit with the authorized points of redirection in MCWRA's other water rights licenses and permit and comply with the Biological Opinion. As the result of the SWRCB's action to revoke Permit 11043, under new permit terms granted by the SWRCB on September 18, 2013, the MCWRA has submitted a petition for an extension of time to put the water under the permit to beneficial use. A petition to add a new point of diversion could be added to that petition.

3.2. Indirect Replenishment Water - Actions/Projects #2: The following are the Actions/Projects that would use winter treated sewer flows and winter Salinas River flows for groundwater recharge to be later extracted for agricultural and municipal uses:

- PP3: Improve SRDF Diversion
- PP6: 11043 Diversion Facilities
- PP5: Expand Area Served by CSIP
- AP2: Winter Potable Reuse Water Injection
- AP3: Extract Winter Flows Using Radial Collector(s) and Inject into 180- and 400-Foot Aquifers
- AP5: Use the Upper Portion of the 180/400 Foot Aquifer Subbasin for Seasonal Storage

These are complementary projects to Actions/Projects #1. This synergy of these Actions/Projects is to use winter water, e.g., treated sewer flows and winter Salinas River flows, for groundwater recharge during the winter and to later extract that water for delivery in the summer. Any water to be injected must be treated. MCWD has performed a feasibility study on constructing a water treatment plant and spreading basins at its Armstrong Ranch property near the SRDF. That study will be made available to the SVBGSA. Treated water could also be conveyed north across the river to the Castroville area.

3.3. Seawater Intrusion/Replenishment Water - Actions/Projects #3: The following are suggested combinations of Actions/Projects to stop and reverse seawater intrusion and to produce Replenishment Water:

- PP8: Seawater Intrusion Pumping Barrier
- AP1: Desalinate water from the Seawater Barrier Extraction Wells

Combined Projects PP8 and AP1 are discussed in detail in Section 4 below.

3.4. Regulatory - Actions/Projects #4: The following are the regulatory Actions/Projects listed in Chapter 9:

- MA1: Agricultural Land and Pumping Allowance Retirement
- MA3: Restrict Pumping in CSIP Area
- MA4: Support and Strengthen MCWRA Restrictions on Additional Wells in the Deep Aquifer

MA1 is a “willing seller, willing buyer” program, which MCWD GSA can support. Proposed MA3 as described is to prevent all agricultural pumping in the CSIP Area. We would observe that during the 25% driest water years, some agricultural pumping may very well be necessary. Formation of pump improvement districts or private community pumps for designated areas within CSIP could be considered for use during the driest water years. MCWD GSA comments on MA4 is in Section 5 below.

**4. Combined Seawater Intrusion Pumping Barrier (PP8) with Desalinate Water from the Seawater Barrier Extraction Wells (with or without reinjection) (AP1) Project.**

**a. Combined Project Description from draft Chapter 9:**

Chapter 9 describes the combined project as follows:

[PP8] Seawater intrusion will be arrested using a pumping barrier along the coast. The barrier will be approximately 8.5 miles in length between Castroville and Marina. The intrusion barrier comprises 22 extraction wells; although this number may change as the project is refined. Supplemental water to replace the extracted water would come from one or a number of other sources such as those identified in Preferred Project 3 or Alternative Projects 1, 2, 4, and 5.

\* \* \* Alternatively, the extracted water or a portion thereof could be conveyed to a new or existing desalination facility where it can be treated for potable and/or agricultural use. The water extracted from these wells will be brackish due to historical seawater intrusion, therefore, the extraction will serve to remove the brackish water and allow replacement for fresh water from other sources, most likely a combination of desalinated water, excess surface water from the Salinas River, and/or purified recycled water.

\* \* \* The project will stop and reverse seawater intrusion, helping to remediate and restore the 180/400-foot aquifer subbasin.

\* \* \* [AP1] This project would treat water extracted from the seawater intrusion barrier and allow for its reinjection in the 180-Foot Aquifer and 400-Foot Aquifer.

Injection barriers are the most common method employed to halt seawater intrusion. Injection barriers have been used in Southern California basins to control saltwater intrusion for over 30 years. They are the most common, technically demonstrated method employed to stop seawater intrusion around the world. But they add another layer of costs and infrastructure.

A pure extraction barrier project with no reinjection of treated water, with similar groundwater hydrology to North County, may not exist. Alameda County Water District's Newark Desalination Facility could be studied to determine if it can possibly be used as a model for the Pumping Barrier. ACWD's Desalination Facility is part of ACWD's Aquifer Reclamation Program which began in 1974 with the goal of reclaiming those portions of the Niles Cone Groundwater Basin affected by saltwater intrusion from San Francisco Bay in the early 20<sup>th</sup> century. The District pumps brackish water from the groundwater basin so that freshwater from other parts of the basin can move in to take its place. A key component of this project has been the addition of replenishment water to the basin, which brought mean water levels above sea level prior to the initiation of extraction. Since 2003, brackish water which was once allowed to flow back into San Francisco Bay is now diverted to the Desalination Facility so that it can be put to beneficial use in the Tri-City area.

**b. Project Phasing:**

There is a lot of uncertainty relating to costs, who pays, where are the optimum locations for the extraction wells, and whether an injection barrier would also be needed as envisioned in AP1. It is suggested that the combined project be broken up into possibly 4 phases with each phase consisting of 4 to 6 extraction wells and a modular brackish water desalination plant with the 1<sup>st</sup> Phase starting at the northern end of the 180/400-Foot Aquifer Subbasin.

A study would be performed during 2020 and 2021 to determine the specific depths, locations, spacing and rates of extraction of the brackish water extraction wells to make the project most effective, and to assess, among other things, (1) the effectiveness of these wells to halt salt-water intrusion, (2) evaluate other potential subbasin impacts, and (3) the best location for the brackish water desalination plant.

A majority of the project area has been the subject of intense hydrogeological study within the last decade and most recently the focus of a high-quality Airborne Electromagnetic (AEM) survey (data-collection effort) that has generated valuable information about subsurface conditions over a significant section of the coastline and inland areas and is available for use in project design and implementation. MCWD conducted its first AEM overflight in May 2017 (AEM 1.0) and its second in April 2019 (AEM 2.0). Both AEM studies covered the North County area and should be used to focus well locations and well design that would target the main pathways of seawater intrusion into and within the multi-aquifer system of the 180/400 Foot Aquifer Subbasin. The use of this technology has grown to be an effective tool in California as shown by other AEM studies that have been conducted in Tulare County, Eastern Kern County, and Butte and Glenn Counties.

The MCWD GSA plans to request Proposition 68 funding to facilitate the development of a numerical model that can account for variable density of seawater and fresh water to further evaluate the Pumping Barrier project. The modeling will be utilized to evaluate the potential effects of the barrier on groundwater flow within the Monterey Subbasin. The model will be used to evaluate alternative well spacing and design within the Monterey Subbasin to allow independent removal of groundwater containing lower concentrations of total dissolved solids (TDS) from the Dune Sand Aquifer and Upper 180-Foot Aquifer for potential treatment and potable use. Prioritizing treatment of groundwater with lower concentrations of TDS is likely to be more cost effective and reduce brine discharge quantities. Salinity information obtained from the AEM Study and Fort Ord well sampling will be utilized in the development of the numerical model and aid in the design of the barrier wells within the Monterey Subbasin. The results of these numerical analyses will be shared with SVBGSA to aid in the evaluation and potential design of the Pumping Barrier.

c. **Potential Project Benefits:** The potential project benefits could be considerable, including: (1) stop and reverse seawater intrusion within the 180/400 Foot Aquifer Subbasin and Monterey Subbasin; (2) provide supplemental drinking water to Castroville; (3) provide supplemental drinking water to the City of Salinas to decrease the known pumping depressions within the Eastside Subbasin and to help restore seaward gradients and groundwater flow within the 180 Foot Aquifer and 400 Foot Aquifer; (4) provide supplemental drinking water to Marina, Fort Ord and the Monterey Peninsula, and potentially groundwater recharge within the Seaside Subbasin; (5) provide desalinated water for an injection barrier located landward of the extraction barrier and inland of the seawater intrusion front to increase the benefit of the extraction barrier and halt the further inland movement of seawater; and (6) avoid pumping and building new infrastructure within Environmentally Sensitive Habitat Areas (ESHA).

d. **Project Elements:**

Location of Brackish Water Extraction Wells:

PP8 proposes a Pumping Barrier of approximately 8.5 miles in length between Castroville and Marina. Assuming that the project will be phased, it is recommended that the Phase 1 extraction wells be located west of Castroville for the protection of the area that suffers both seawater intrusion and the counter flow of groundwater east to the East Side pumping depressions.

Location of Brackish Water Desalination Plant: The location of the desalination plant will need to be determined by an optimization study using various factors, including identified Project Benefits and their prioritization. For example, a plant located north of the Salinas River would be located (1) nearer to Castroville, (2) nearer to the City of Salinas and the East Side pumping depressions, and (3) within the North County agricultural area. However, it would be further away from the Monterey Peninsula. In contrast, a plant located south of the Salinas River would be located nearer to the Monterey Peninsula but further away from, Castroville, City of Salinas, and the North County agricultural area. AP1 lists the following possible desalination plants: Monterey Peninsula Water Supply Project (MPWSP) (6.4 mgd/ 7,100 AFY); Deep Water Desalination Plant (22 mgd/ 25,000 AFY); and People Water Supply Project (12 mgd/ 13,400 AFY).

Desalination Capacity of Brackish Water Plant: The desalination capacity of the brackish water plant will initially depend upon the pumping capacity of the extraction wells and how the plant's product water will be allocated among Project Benefits c(2) through (5) or any other uses. It is common for these types of facilities to be constructed for future expansion in a modular design that will allow for incremental growth as additional feedwater is made available. The design capacities of the pipelines bringing brackish water in and of the pipelines carrying product water out will need to take into consideration future expansion for the ultimate project buildout.

e. **Groundwater Rights Issues:** Because the 180/400-Foot Aquifer Subbasin has been designated as a Critically Overdrafted Subbasin, the necessary groundwater rights that would support the project will need to be assessed. Returning water to the Salinas Valley Groundwater Basin to comply with the Monterey County Water Resources Agency Act's export prohibition does not confer a groundwater right, only compliance with the Agency Act.

#### **5. Restriction on Additional Wells in the Deep Aquifer (Priority Management Action 4)**

MCWD supports implementation of Priority Management Action 4: Support and Strengthen MCWRA Restrictions on Additional Wells in the Deep Aquifer. As presented in our comments for Chapter 8, groundwater elevations in the Deep Aquifer are below sea level and declining, suggesting that extraction from this aquifer exceeds the sustainable yield of this aquifer zone.

This issue is very important to MCWD because in the 1996 Annexation Agreement, MCWRA agreed to protect the Deep Aquifer for MCWD's use, but MCWRA did not take any protective action until the recent adoption of Ordinance 5302. Section 5.3, Management of 900-foot aquifer, of the 1996 Annexation Agreement provides, "The Parties agree that the '900-foot' aquifer should be managed to provide safe, sustained use of the water resource, and to preserve to MCWD the continued availability of water from the '900-foot' aquifer." Section 5.9 further stated that the annexation fees paid by MCWD "shall also be used for management protection of the '900-foot aquifer.'"

MCWD will work with MCWRA pursuant to the 1996 Annexation Agreement on MCWRA's Deep Aquifer study.

#### **6. Winter Potable Reuse Water Injection (Alternative Project 2)**

For Alternative Project 2: Winter Potable Reuse Water Injection, the document should include an option (or separate alternative) for year-round potable reuse water injection by MCWD, as described in its Grant Application, provided to SVBGSA on 20 June 2019. MCWD has rights to recycled water on a year-round basis. Per discussions during the meeting on 11 July 2019, MCWD provided the following language for inclusion in the GSP:



*“MCWD is currently conducting a feasibility study on injection of purified recycled water into the Monterey Subbasin. The project proposes to use purified recycled water available to MCWD from the AWPf, some of which is available year-round per the district's agreement with MIW, for indirect potable reuse and prevention of further seawater intrusion. This project is consistent with and can readily be implemented in conjunction with the winter potable reuse project identified herein.”*

### **7. Extract Winter Flows using Radial Collectors and Inject into 180- and 400-Foot Aquifers (Alternative Project 3)**

Alternative Project 3 is the winter extension of Preferred Project 3, Improve SRDF Diversion. While under Alternative Project 3, the new radial collector system would only operate from November through March, the system would be operated from April through October under Preferred Project 3. There may be even steelhead benefits to also operating the system during April through October in conjunction with the SRDF.

Section 9.4.5.3 correctly observes that a significant volume of water may be available for diversion or extraction from the Salinas River during the winter. However, securing and clarifying water rights is not a constraint on this proposed project. As discussed above, MCWRA's Amended Water Rights License 7543, Amended License 12624, and Amended Permit 21089 already designate the SRDF Diversion as an authorized point of rediversion. Those licenses and permits were amended to comply with the NMFS' Biological Opinion. Therefore, water stored and released under those water rights is already authorized to be diverted at the SRDF. The Reservoir Reoperation Management Action already has the stated goal of operating the two reservoirs so as to “Allow both natural and surplus flows to better reach the SRDF diversion.” Adding the SRDF as an additional point of diversion under Permit 11043 pursuant to a change petition under Water Code Sections 1701.2, et seq., would conform that permit with the authorized points of rediversion in MCWRA's other water rights licenses and permits and comply with the Biological Opinion.

Salinas River provided to CSIP is not required to be treated, but river water to be injected must first be treated and those costs must be included where applicable.

Additionally, an alternative should include direct piping of SRDF radial collector water to MCWD during winter months. This alternative may be less expensive than injection. We suggest that benefits discussion of this project to be slightly modified to:

*“This project could benefit other subbasins, such as the Monterey and East Side subbasins by providing treated potable water to these subbasins for direct recharge and/or municipal potable use.”*

Gary Petersen & Derrick Williams

1 August 2019

Page 11 of 11

Thank you for this opportunity to provide these comments. We look forward to working with you to discuss, evaluate, and refine the proposed Chapter 9 actions and projects.

Sincerely,

A handwritten signature in blue ink, appearing to read "K. Van Der Maaten", with a long horizontal flourish extending to the right.

Keith Van Der Maaten

General Manager, Marina Coast Water District



# MARINA COAST WATER DISTRICT

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## DIRECTORS

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WILLIAM Y. LEE  
HERBERT CORTEZ

16 September 2019

Mr. Gary Petersen  
General Manager  
Salinas Valley Basin Groundwater Sustainability Agency  
1441 Shilling Place  
Salinas, CA 93901

Mr. Derrick Williams  
Montgomery & Associates  
1232 Park Street, Suite 201B  
Paso Robles, CA 93446

Dear Mr. Peterson and Mr. Williams,

Thank you for taking the time to meet with our SGMA consultant EKI Environment & Water, Inc. on 15 August 2019. This letter

- (1) Provides MCWD GSA's comments on draft 180/400 Foot Aquifer Subbasin Groundwater Sustainability Plan (GSP) Public Review Draft Chapter 9 (dated 2 August 2019) and Draft Chapter 10 (dated 28 July 2019); and
- (2) Summarize agreements reached regarding coordination with MCWD GSA representatives Proposition 68 grant application for the 180/400 Foot Aquifer Subbasin and Monterey Subbasin.

## COMMENTS TO CHAPTER 9 PROJECTS AND MANAGEMENT ACTIONS

### 1. Water Charges Framework (Section 9.2)

The sentence below was added to Public Review Draft Chapter 9, Section 9.2 Water Charges Framework:

*"The fee structures in each subbasin will be developed in accordance with all existing laws, judgements, and established water rights."*

We understand that SVBGSA will further revise this sentence to include existing water management agreements as part of the basis for developing fee structure and pumping allowances, pursuant to our discussion during the 10 July 2019 meeting and MCWD's comment letter for Chapter 9 dated 1 August 2019. We understand that SVBGSA has received the comment letter but have yet to incorporate those comments into Chapter 9.

Additionally, it appears that this sentence and the associated paragraph discuss the fee structure as well as the sustainable pumping allowance. Therefore, the sentence should be revised to begin with "The fee structures and pumping allowance in each subbasin..."

## **2. Pumping Barrier Extraction Rate Calculation (Appendix 9-C)**

Appendix 9-C mentions that the estimated pumping rates of the barrier project is calculated based on an analytical solution published by Javandel and Tsang (1987). This analytical solution assumes a constant background gradient. However, it is highly unlikely that a constant background gradient will be maintained over the project lifetime, because once sea water intrusion is stopped water levels inland of the barrier will begin to decline as seawater stops recharging the basin. As recognized in the GSP, numerical modeling is needed to assess rates of groundwater extraction that will be required to halt saltwater intrusion.

As discussed in Comment #5 to Chapter 10 below, the SVIHM will likely not have the resolution or adequate calibration in proposed project area and cannot be used to model density driven flow. Therefore, the GSP should acknowledge that alternative models will likely be required to evaluate the proposed pumping barrier project.

## **3. Estimated Pumping Barrier Extraction from Monterey Subbasin (Appendix 9-C)**

Appendix 9-C estimates that the pumping barrier will have a total extraction volume of 30,000 AFY; 22,500 AFY of which would be extracted from the 180/400 Foot Aquifer Subbasin. Per discussion, it is understood that the remaining 7,500 AFY would be extracted from the Monterey Subbasin.

## **4. Mitigation of Overdraft (Section 9.6 and Table 9-5)**

Section 9.6 discusses the overdraft estimated in Chapter 6 and stated that “[t]he priority projects include more than ample supplies to mitigate existing overdraft, as presented in Table 9-5.” As agreed during the meeting, SVBGSA should add a discussion that Section 9.6 is included per requirements of GSP Regulations (and cite relevant sections) and that mitigating the overdraft as estimated does not meet all of the basin’s sustainable management criteria. Specifically, without a hydraulic barrier, seawater intrusion will continue to occur if groundwater extraction within the basin occurs at the identified sustainable yield. As SVBGSA stated in Chapter 6, “simply reducing pumping to within the sustainable yield is not proof of sustainability, which must be demonstrated via Sustainable Management Criteria (SMC).”

Additionally, given the technical uncertainties of the proposed seawater intrusion pumping barrier project and the potential project cost that may not be approved by groundwater basin users, the GSP should provide an estimate of the sustainable yield of the 180/400 Foot Aquifer Subbasin (or the larger Salinas Valley Basin) without the pumping barrier project. This estimate is required under SGMA, which defines “Sustainable Yield” as “the maximum quantity of water, calculated over a base period representative of long-term conditions in the basin and including any temporary surplus, that can be withdrawn annually from a groundwater supply without causing an undesirable result.”

We understand that due to modeling limitations and data gaps, SVBGSA is reluctant to provide an estimate the “sustainable yield” of the basin when sustainable management criteria for seawater intrusion are considered. However, analytical methods, similar to those used to estimate extraction rate of the pumping barrier project, could be utilized to provide a preliminary estimate of the Sustainable Yield of the basin if the extraction barrier is not installed. For example, previous studies conducted on this topic by Geoscience (2013), *Protective Elevations to Control Sea Water Intrusion in the Salinas Valley*, estimated that approximately 60,000 AFY would be needed for the Salinas Valley Water Project to recharge the Salinas Valley Basin sufficiently to stop seawater intrusion. Alternatively, the GSP could compare and discuss the volume of water needed for an injection barrier, as presented in Appendix 9-C.

## COMMENTS TO CHAPTER 10 GSP IMPLEMENTATION

### 5. Additional Data Gaps and Analyses to be Addressed (Section 10.3)

As discussed in our comments to the previous chapters, the following additional data gaps and analyses should be identified Chapter 10:

- Seawater intrusion cross-sections (Chapter 5 comments dated 18 April 2019)  
Per GSP Regulations Section 354.16 (c), a GSP should provide “seawater intrusion conditions in the basin, including maps and cross sections of the seawater intrusion front for each principal aquifer”. The GSP should commit to development of such cross-sections, once data gaps have been filled. These data are needed to inform placement of seawater intrusion barrier wells.
- Groundwater extraction within individual aquifers (Chapter 6 comments dated 2 July 2019)  
We suggest that SVBGSA collect information needed to identify groundwater extraction from each principal aquifer, to allow the development of a water budget for each aquifer. As discussed in MCWD’s Chapter 6 comments dated 2 July 2019:

*“Water budget information for each principal aquifer is necessary to verify that proposed future operations of the basin, including implementation of projects and management actions, will not lead to undesirable results in each principal aquifer. Seawater intrusion is occurring in both the 180 Foot Aquifer and the 400 Foot Aquifer, and inland gradients exist within the Deep Aquifer. In order to reach sustainability, hydraulic gradients in each of these aquifers will need to be reversed either through decreasing groundwater extraction and/or future supply augmentation projects. As such, water budgets for each aquifer must be established to verify that undesirable effects do not occur.*

*We understand that information related to groundwater extraction within individual aquifer zones is currently limited and that water budgets cannot be developed for each principal aquifer zone. As such, we recommend that the GSP acknowledge this uncertainty and identify it as a data gap. The GSP should provide a plan to further assess rates of extraction and inflows within principal aquifer zones so undesirable results, such as seawater intrusion can be mitigated. This information is critical, as achieving sustainability in the basin requires implementation of projects and management actions, which will need to be evaluated against sustainable management criteria in each principal aquifer.”*

However, as discussed and agreed upon during the meeting, this data gap may be extremely difficult to fill and water level data/gradients in each aquifer may serve as a proxy for evaluating the effectiveness of projects and management actions to address saltwater intrusion within each of these zones. However, given the uncertainties associated with groundwater recharge and groundwater levels within the Deep Aquifer (consistent with data gaps identified in Section 10.3), quantification of all groundwater extraction from the Deep Aquifer, should be clearly identified as a Data Gap that will be filled as under the GSP.

We further recommend that the GSP identify actions that will be implemented to allow:

- Development of Sustainable Management Criteria for the deep aquifer; and

- Development of Sustainable Management Criteria that consider project implementation. For example, alternative groundwater elevation Sustainable Management Criteria will be required near the coast if a pumping barrier is constructed.

**6. Plans to Refine and Evaluate the Seawater Intrusion Barrier Project (Sections 10.6 and 10.7)**

The GSP should acknowledge that alternative models will likely be required to evaluate certain projects, such as the pumping barrier or injection wells, because the SVIHM does not have the resolution or adequate calibration in proposed project areas and cannot model density driven flow.

Further, The GSP states that SVIHM model will be available for use within one year. Per discussion during the meeting, we understand that within one year, the SVIHM model will be released for public use by USGS. Additionally, we understand that the model will be made publicly available consistent with GSP Regulations Section 352.4 (f)(3), “[g]roundwater and surface water models developed in support of a Plan after the effective date of these regulations shall consist of public domain open-source software.”

**PROPOSITION 68 GRANT COORDINATION**

MCWD is considering applying for Proposition 68 Grant (SGM Grant Round 3) for Monterey Subbasin. We understand that SVBGSA is also planning to apply for this grant for other basins under its jurisdiction. As agreed, both parties will coordinate and support each other in grant funding processes.

Thank you for this opportunity to provide these comments. We look forward to working with you to discuss, evaluate, and refine the proposed Chapter 9 actions and projects.

Sincerely,



Keith Van Der Maaten  
General Manager, Marina Coast Water District

Marina Coast Water District  
Agenda Transmittal

Agenda Item: 11

Meeting Date: January 29, 2020

Prepared By: Paula Riso

Approved By: Keith Van Der Maaten

Agenda Title: Consent Calendar

Staff Recommendation: The Board of Directors approve the Consent Calendar as presented.

Background: *5-Year Strategic Plan Mission Statement – We provide our customers with high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.*

Consent calendar consisting of:

- A) Receive and File the Check Register for the Month of December 2019
- B) Approve the Draft Minutes of the Regular Joint Board/GSA Meeting of December 16, 2019

Discussion/Analysis: See individual transmittals.

Environmental Review Compliance: None required.

Other Considerations: The Board of Directors can approve these items together or they can pull them separately for discussion.

Material Included for Information/Consideration: Check Register for December 2019; and, draft minutes of December 16, 2019.

Action Required:     \_\_\_\_\_Resolution       X  Motion     \_\_\_\_\_Review  
(Roll call vote is required.)

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Board Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_ Abstained \_\_\_\_\_

Noes \_\_\_\_\_ Absent \_\_\_\_\_

Marina Coast Water District  
Agenda Transmittal

Agenda Item: 11-A

Meeting Date: January 29, 2020

Prepared By: Kelly Cadiente

Approved By: Keith Van Der Maaten

Agenda Title: Receive and File the Check Register for the Month of December 2019

Staff Recommendation: The Board of Directors receive and file the December 2019 expenditures totaling \$1,378,325.67.

Background: *5-Year Strategic Plan, Objective No. 3 – Our objective is to manage public funds to assure financial stability, prudent rate management and demonstrate responsible stewardship. Our fiscal strategy is to forecast, control and optimize income and expenditures in an open and transparent manner. We will efficiently use our financial resources to assure availability to fund current and future demands.*

Discussion/Analysis: These expenditures were paid in December 2019 and the Board is requested to receive and file the check register.

Environmental Review Compliance: None required.

Financial Impact:  Yes  No Funding Source/Recap: Expenditures are allocated across the six cost centers; 01-Marina Water, 02-Marina Sewer, 03- Ord Water, 04- Ord Sewer, 05-Recycled Water, 06-Regional Water.

Other Consideration: None.

Material Included for Information/Consideration: December 2019 Summary Check Register.

Action Required:  Resolution  Motion  Review  
(Roll call vote is required.)

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Board Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_ Abstained \_\_\_\_\_

Noes \_\_\_\_\_ Absent \_\_\_\_\_



**DECEMBER 2019 SUMMARY CHECK REGISTER**

<b>DATE</b>	<b>CHECK #</b>	<b>CHECK DESCRIPTION</b>	<b>AMOUNT</b>
12/05/2019	68541 - 68608	Check Register	338,592.79
12/16/2019	68609 - 68611	Check Register	69,617.90
12/18/2019	68612	Check Register	1,402.00
12/23/2019	Wire	Mountain Cascade, Inc.	295,462.28
12/23/2019	68613 - 68660	Check Register	182,501.78
12/13/2019	ACH	State of California - EDD	9,791.46
12/13/2019	ACH	Internal Revenue Service	41,450.95
12/13/2019	ACH	CalPERS	24,679.05
12/13/2019	ACH	MassMutual Retirement Services, LLC	9,112.60
12/13/2019	500587 - 500591	Payroll Checks and Direct Deposit	111,715.95
12/13/2019	500592 - 500593	Check Register	1,735.23
12/16/2019	500594 - 500613	Check Register	82,609.72
12/27/2019	ACH	MassMutual Retirement Services, LLC	16,023.31
12/27/2019	ACH	CalPERS	24,844.60
12/27/2019	ACH	State of California - EDD	9,908.77
12/27/2019	ACH	Internal Revenue Service	40,235.21
12/27/2019	500614 - 500618	Payroll Checks and Direct Deposit	115,618.24
12/27/2019	500619 - 500621	Check Register	3,023.83
<b>TOTAL DISBURSEMENTS</b>			<b><u>1,378,325.67</u></b>

Check No	Invoice Date	Check Date	Vendor Name	Description	Amount
68541	11/12/2019	12/05/2019	Monterey Peninsula Unified School District	Water Conservation Education 10/2019	2,769.89
68542	11/26/2019	12/05/2019	Insight Planners	Web Development/ Maintenance 11/2019	1,113.00
68543	11/06/2019	12/05/2019	Grainger	General Supplies	26.32
68544	11/20/2019	12/05/2019	Area Communications	Answering Service 10/23 - 11/19	145.72
68545	11/19/2019	12/05/2019	Hopkins Technical Products, Inc.	Spare Membrane Caps	1,255.69
68546	11/13/2019	12/05/2019	Idexx Distribution Corporation	Laboratory Supplies	1,753.68
68547	11/30/2019	12/05/2019	Peninsula Welding & Medical Supply, Inc.	Gas Cylinder Tank Rental Fee - Welding Supplies	12.90
68548	11/18/2019	12/05/2019	Verizon Wireless	Cell Phone Service 11/2019	1,852.04
68549	11/14/2019	12/05/2019	Cypress Coast Ford	Replace Brake Pads, Rear Rotors, Air Filter, Oil Change - Vehicle #1302	1,036.33
68550	11/15/2019	12/05/2019	Federal Express	Shipping Charges	30.53
68551	12/01/2019	12/05/2019	American Messaging Services, LLC	Pager Service - O&M	58.60
68552	12/02/2019	12/05/2019	Conservation Rebate Program	5100 Coe Ave #207 - Toilet Rebate	125.00
68553	10/01/2019	12/05/2019	CSDA	Membership Renewal 2020	7,615.00
68554	11/23/2019	12/05/2019	NEC Financial Services, Inc.	Phone Equipment Lease 11/2019	335.76
68555	11/15/2019	12/05/2019	Carollo Engineers, Inc.	Bid Services, Project Management, Design Plans/ Specifications, Construction Meetings, RWQCB NOI, Project Administration - RUWAP	20,821.91
68556	11/28/2019	12/05/2019	O'Reilly Automotive Stores, Inc.	Auto/ General Supplies	151.44
68557	11/21/2019	12/05/2019	Conservation Rebate Program	299 Carmel Ave - Toilet Rebate	125.00
68558	10/30/2019	12/05/2019	Calcon Systems, Inc.	Troubleshoot SCADA Internet	1,152.50
68559	11/15/2019	12/05/2019	Univar USA, Inc.	Chlorine - Intermediate Tank; Wells 10, 11, Watkins Gate	2,519.62
68560	11/06/2019	12/05/2019	Olympus and Associates, Inc.	Preparation/ Painting of Tank Interior - Reservoir 2	61,969.84
68561	10/31/2019	12/05/2019	Star Sanitation LLC	Mobile Restroom Rental - Beach Office	71.01
68562	11/21/2019	12/05/2019	Central Coast Sign & Design	MCWD Metal Sign	128.35
68563	11/22/2019	12/05/2019	Conservation Rebate Program	4510 Peninsula Point Dr - Washer Rebate	150.00
68564	12/02/2019	12/05/2019	Conservation Rebate Program	497 Ridgeview Ave - (2) Toilet Rebates	250.00
68565	11/26/2019	12/05/2019	Conservation Rebate Program	3244 Estrella Del Mar Way - Toilet Rebate	125.00
68566	12/02/2019	12/05/2019	Conservation Rebate Program	243 Bennett Ct - Washer Rebate	150.00
68567	11/24/2019	12/05/2019	Voyager Fleet Systems, Inc.	Fleet Gasoline	3,258.38
68568	11/19/2019	12/05/2019	Green Rubber-Kennedy AG, LP	General Supplies	64.11
68569	11/12/2019	12/05/2019	Richards, Watson & Gershon	Legal Fees - Regional Project Litigation 10/2019	25,324.95
68570	11/15/2019	12/05/2019	Remy Moose Manley, LLP	Legal Fees - CPUC, Desalination Plan/ MPWSP, RAMCO Well 10/2019	48,518.58
68571	12/02/2019	12/05/2019	Monterey Bay Technologies, Inc.	(3) Dell Optiplex Computers, IT Support Services 12/2019	6,966.73
68572	11/26/2019	12/05/2019	ICONIX Waterworks (US), Inc.	Waterworks Supplies	176.83

Check No	Invoice Date	Check Date	Vendor Name	Description	Amount
68573	11/12/2019	12/05/2019	Eurofins Eaton Analytical, Inc.	Lab Water - Total Organic Carbon and Nitrogen	100.00
68574	11/06/2019	12/05/2019	Griffith & Masuda	Legal Fees - Bay View Mobile Home Park, FORA, GSA, Infrastructure Agreement, Potable Water Pipeline, General Services 10/2019	40,251.00
68575	11/26/2019	12/05/2019	Conservation Rebate Program	338 Elba Cir - Toilet Rebate	125.00
68576	12/01/2019	12/05/2019	Aleshire & Wynder, LLP	Legal Fees - Opinion for Bay View Community vs. MCWD 11/2019	16,245.30
68577	11/30/2019	12/05/2019	Peninsula Messenger LLC	Courier Service 12/2019	166.00
68578	11/22/2019	12/05/2019	Dataflow Business Systems, Inc.	Ord Copier Maintenance (5551ci) 10/23 - 11/22	626.14
68579	11/22/2019	12/05/2019	AT&T	Phone/ Alarm Line Services 11/2019	21.48
68580	12/01/2019	12/05/2019	Simpler Systems, Inc.	Datapp for UB - Maintenance 12/2019	500.00
68581	12/01/2019	12/05/2019	Pure Janitorial, LLC	BLM Janitorial Services 11/2019	1,951.00
68582	11/17/2019	12/05/2019	Aqua Geo Frameworks LLC	Hydrogeologic Framework	57,700.00
68583	11/15/2019	12/05/2019	EKI Environment & Water, Inc.	Water Supply Augmentation Study - Fort Ord	13,755.56
68584	11/08/2019	12/05/2019	Akel Engineering Group, Inc.	Master Plans/ Capacity Fees Study - Water, Sewer, Recycled Water	12,989.51
68585	10/10/2019	12/05/2019	Springbrook National User Group	2020 Membership	100.00
68586	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 2981 Abrams Dr	205.93
68587	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 2979 Abrams Dr	703.76
68588	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 171 Linde Cir	14.53
68589	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 302 Arloncourt Rd	22.39
68590	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 2961 Abrams Dr	142.61
68591	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 342 Carentan Rd	25.00
68592	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 228 Metz Rd	36.63
68593	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 17302 Logan St	77.44
68594	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 211 Ardennes Cir	16.63
68595	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 17338 Logan St	33.08
68596	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - Hydrant Meter 3rd & 9th St	1,456.56
68597	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 224A Palm Ave	11.34
68598	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 420 Reservation Rd	35.00
68599	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 13001 Pope Ln	44.76
68600	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 604 Malmedy Rd	25.00
68601	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 13709 Sherman Blvd	38.80
68602	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 406 Kalborn Rd	16.63
68603	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 3271 Cove Way	35.00
68604	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 421 Radden Rd	15.00

Check No	Invoice Date	Check Date	Vendor Name	Description	Amount
68605	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 301 9th St	23.34
68606	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 4456 Ocean Heights Ct	35.00
68607	11/22/2019	12/05/2019	Customer Service Refund	Refund Check - 3161 Shuler Ave	16.40
68608	11/26/2019	12/05/2019	Customer Service Refund	Refund Check - 5080 Peninsula Point Dr	976.26
68609	12/12/2019	12/16/2019	Conservation Rebate Program	Abrams Park - (311) Toilet Rebates	38,875.00
68610	12/06/2019	12/16/2019	TIAA Commercial Finance, Inc.	eCopy ScanStation and (3) Copier Leases 12/2019	1,109.54
68611	11/27/2019	12/16/2019	EKI Environment & Water, Inc.	Groundwater Planning Sustainability Study	29,633.36
68612	12/09/2019	12/18/2019	Monterey Bay Air Resources District	Modification Permit - Ord Village LS Generator	1,402.00
Wire	12/13/2019	12/23/2019	Mountain Cascade, Inc.	Retention Release	295,462.28
68613	11/30/2019	12/23/2019	Ace Hardware	General Supplies	411.01
68614	11/28/2019	12/23/2019	Alhambra and Sierra Springs	Lab Grade Water	51.54
68615	11/28/2019	12/23/2019	Home Depot Credit Services	General Supplies	11.89
68616	11/30/2019	12/23/2019	Monterey Regional Waste Management District	Refuse Disposal - O&M Yard Sand Tank	112.22
68617	11/06/2019	12/23/2019	3T Equipment Company, Inc.	(2) 20 ft Leader Hoses	703.72
68618	12/06/2019	12/23/2019	Monterey Bay Analytical Services	Laboratory Contract Testing	1,940.00
68619	11/12/2019	12/23/2019	Johnson Associates	General Supplies	207.74
68620	11/30/2019	12/23/2019	Monterey One Water	Sewer Treatment Charges 11/2019 - 12/2019	132.50
68621	12/05/2019	12/23/2019	Staples Credit Plan	Office Desk, Toner, General Supplies	2,001.63
68622	12/12/2019	12/23/2019	Harris & Associates	Construction Support - Inter-Garrison Road Pipeline, Developer Inspection Services (Dunes Residential, East Garrison, Junsay Oaks, OMC Backflow Project, Seaside Senior Living Project, Wathen-Castanos Homes)	22,514.05
68623	12/06/2019	12/23/2019	Orkin Franchise 925	BLM/ IOP Pest Control 12/2019	191.00
68624	12/13/2019	12/23/2019	Cypress Coast Ford	Oil Change, Radiator Replacement - Valve Turner Truck Vehicle #1102	2,226.80
68625	12/05/2019	12/23/2019	Maynard Group	Phone Installation - Engineering Technician; AT&T Wireless Backup, eMVS Cloud, VoIP Services; NEC Phone Equipment Maintenance 12/2019	3,549.48
68626	11/30/2019	12/23/2019	DataProse, LLC	Customer Billing Statements 11/2019	5,473.81
68627	12/06/2019	12/23/2019	Quinn Rental Services	150KW Generator 175KW Rental - Ord Village LS, 350KW Generator Rental plus Pigtails - Main Ord Booster Station	20,384.90
68628	12/16/2019	12/23/2019	Carollo Engineers, Inc.	Record Drawings, Project Administration/ Meetings, Engineering Services during Construction - RUWAP	15,397.49
68629	12/02/2019	12/23/2019	University of Southern CA	2020 Water Purveyor Membership - Cross Connection Control	250.00
68630	12/02/2019	12/23/2019	Mobile Modular	Modular Office - Water Resources 12/2019	743.69

Check No	Invoice Date	Check Date	Vendor Name	Description	Amount
68631	11/30/2019	12/23/2019	Credit Consulting Services, Inc.	Commission on Collection of Past Due Accounts 11/2019	334.73
68632	12/02/2019	12/23/2019	Whitson Engineers	Project Initiation/ Scope Development - S Boundary Rd Pipeline	2,720.00
68633	12/09/2019	12/23/2019	TJC and Associates, Inc.	Design/ Installation - Generator Project	1,428.75
68634	11/20/2019	12/23/2019	Don Chapin Co., Inc	Generator Pads for Dunes and East Garrison LS - Construction Pmt #1	17,831.50
68635	10/31/2019	12/23/2019	Kimley-Horn and Associates, Inc.	Professional Services - Imjin Pkwy Pipeline	3,998.34
68636	11/25/2019	12/23/2019	Sturdy Oil Company	(285) gals Clear Diesel - Convault Tank/ O&M Yard	183.37
68637	11/30/2019	12/23/2019	Star Sanitation LLC	Mobile Restroom Rental - Beach Office	71.01
68638	12/12/2019	12/23/2019	Daiohs USA	Coffee Supplies	356.91
68639	12/04/2019	12/23/2019	Conservation Rebate Program	467 Albert Way - (2) Toilet Rebates	250.00
68640	12/17/2019	12/23/2019	Monterey County Petroleum	(145) gals Well Oil	2,688.26
68641	12/06/2019	12/23/2019	U.S. Bank Corporate Payment Systems	Advertisement - O&M Admin Assistant, Backflow Prevention Testers Course, Cloud Hosted Server for CityWorks/ ESRI 10/2019, Premiere Global Services, Constant Contact Service, Hotel for CityWorks Conference, Lunch for Water Education Foundation Meeting, SCADA Internet Service 12/2019, UPS Single Phase Power Supply, General Supplies	7,474.80
68642	12/03/2019	12/23/2019	Marina Tire & Auto Repair	Rear Tire Repair - Vehicle #0505	25.00
68643	12/09/2019	12/23/2019	Richards, Watson & Gershon	Legal Fees - Regional Project Litigation 11/2019	22,363.58
68644	12/10/2019	12/23/2019	Remy Moose Manley, LLP	Legal Fees - Desalination Plan/ MPWSP, RAMCO Well 11/2019	9,756.74
68645	01/01/2020	12/23/2019	California Water Efficiency Partnership	2020 Membership Dues	3,107.84
68646	12/06/2019	12/23/2019	Churchwell White, LLP	CA-AM Water Co v MCWD Legal Services 11/2019	197.50
68647	11/27/2019	12/23/2019	GHD, Inc.	Professional Services/ Design Phase - Imjin LS	332.00
68648	12/10/2019	12/23/2019	Dataflow Business Systems, Inc.	Freight Fee	7.50
68649	11/30/2019	12/23/2019	Western Exterminator Company	Pest Control - Beach Office 11/2019	91.50
68650	11/30/2019	12/23/2019	Iron Mountain, Inc.	Shredding Service 11/2019	163.18
68651	12/15/2019	12/23/2019	AT&T	Phone/ Alarm Line Services 12/2019	183.15
68652	11/29/2019	12/23/2019	Marina Coast Water District (BLM)	BLM Water, Sewer, Fire Services 11/2019	350.15
68653	12/11/2019	12/23/2019	Conservation Rebate Program	3283 Begonia Cir - Toilet Rebate	125.00
68654	12/10/2019	12/23/2019	EKI Environment & Water, Inc.	Groundwater Planning Sustainability Study, City of Marina Permitting of CalAm Project Wells - Environmental	20,623.22
68655	12/10/2019	12/23/2019	Akel Engineering Group, Inc.	Master Plans/ Capacity Fees Study - Water, Sewer, Recycled Water	8,354.75

Check No	Invoice Date	Check Date	Vendor Name	Description	Amount
68656	12/01/2019	12/23/2019	Verizon Connect NWF, Inc.	GPS Service 11/2019	38.00
68657	11/25/2019	12/23/2019	Ferguson Enterprises, Inc #686	General Supplies	361.53
68658	12/18/2019	12/23/2019	Accela, Inc.	Professional Services - Human Resources Module	1,232.25
68659	11/18/2019	12/23/2019	American Water Works Association	AWWA Standards Update Service 03/2020 - 02/2021	850.00
68660	12/01/2019	12/23/2019	Greenwaste Recovery, Inc.	Garbage Collection & Recycling Services - 12/2019	697.75
ACH	12/13/2019	12/13/2019	State of California - EDD	Payroll Ending 12/06/19	9,791.46
ACH	12/13/2019	12/13/2019	Internal Revenue Service	Payroll Ending 12/06/19	41,450.95
ACH	12/13/2019	12/13/2019	CalPERS	Payroll Ending 12/06/19	24,679.05
ACH	12/13/2019	12/13/2019	MassMutual Retirement Services, LLC	Payroll Ending 12/06/19	9,112.60
500587-500591	12/13/2019	12/13/2019	Payroll Checks and Direct Deposit	Payroll Ending 12/06/19	111,715.95
500592	12/13/2019	12/13/2019	General Teamsters Union	Payroll Ending 12/06/19	1,041.00
500593	12/13/2019	12/13/2019	WageWorks, Inc.	Payroll Ending 12/06/19	694.23
500594	12/05/2019	12/16/2019	ACWA/ JPIA	Medical, Dental, Vision, EAP Insurance 01/2020	71,099.07
500595	10/10/2019	12/16/2019	CWEA - Monterey Bay Section	Membership Renewal	291.00
500596	12/02/2019	12/16/2019	SWRCB - DWOCP	Grade II Water Treatment Operator Certification Fee	140.00
500597	11/25/2019	12/16/2019	AFLAC	Employee Paid Benefits 11/2019	3,925.77
500598	11/21/2019	12/16/2019	Thomas P. Moore	Board Compensation - 11/04, 11/18	100.00
500599	12/05/2019	12/16/2019	LegalShield	Employee Paid Benefits 12/2019	25.90
500600	11/21/2019	12/16/2019	Matthew Zefferman	Board Compensation - 11/04, 11/18	100.00
500601	11/18/2019	12/16/2019	Pinnacle Medical Group, Inc.	Drug Test (DOT) - O&M	230.00
500602	11/26/2019	12/16/2019	Firestar Ltd.	Pyramex Hi-Viz Sweatshirt	29.41
500603	11/17/2019	12/16/2019	Principal Life	Employee Paid Benefits 12/2019	493.02
500604	11/30/2019	12/16/2019	Justifacts Credential Verification, Inc.	Background Checks for New Hires	261.00
500605	11/08/2019	12/16/2019	Lincoln National Life Insurance Company	Life, Disability, AD&D Premium 12/2019	2,413.36
500606	11/15/2019	12/16/2019	WageWorks, Inc.	FSA Admin Fees 10/2019	128.00
500607	11/21/2019	12/16/2019	Peter Le	Board Compensation - 11/04, 11/18	100.00
500608	10/04/2019	12/16/2019	Irrigation Association	2020 Certification Renewal	50.00
500609	11/21/2019	12/16/2019	Herbert Cortez	Board Compensation - 11/04, 11/18	100.00
500610	11/16/2019	12/16/2019	Transamerica Life Insurance Company	Employee Paid Benefits 11/2019	1,729.12
500611	11/30/2019	12/16/2019	Cintas Corporation No. 630	Uniforms, Towels, Rugs 11/2019	628.07
500612	11/21/2019	12/16/2019	Jan Shriner	Board Compensation - 11/04, 11/18	100.00
500613	10/31/2019	12/16/2019	Liebert Cassidy Whitmore	Legal Fees 10/2019	666.00
ACH	12/27/2019	12/27/2019	MassMutual Retirement Services, LLC	Payroll Ending 12/20/19	16,023.31
ACH	12/27/2019	12/27/2019	CalPERS	Payroll Ending 12/20/19	24,844.60
ACH	12/27/2019	12/27/2019	State of California - EDD	Payroll Ending 12/20/19	9,908.77

Check No	Invoice Date	Check Date	Vendor Name	Description	Amount
ACH	12/27/2019	12/27/2019	Internal Revenue Service	Payroll Ending 12/20/19	40,235.21
500614-500618	12/27/2019	12/27/2019	Payroll Checks and Direct Deposit	Payroll Ending 12/20/19	115,618.24
500619	12/27/2019	12/27/2019	WageWorks, Inc.	Payroll Ending 12/20/19	694.23
500620			Void		-
500621	12/11/2019	12/27/2019	Lincoln National Life Insurance Company	Life, Disability, AD&D Premium 01/2020	2,329.60
<b>Total Disbursements for December 2019</b>					<b>1,378,325.67</b>

Marina Coast Water District  
Agenda Transmittal

Agenda Item: 11-B

Meeting Date: January 29, 2020

Prepared By: Paula Riso

Approved By: Keith Van Der Maaten

Agenda Title: Approve the Draft Minutes of the Regular Joint Board/GSA Meeting of December 16, 2019

Staff Recommendation: The Board of Directors approve the draft minutes of the December 16, 2019 regular joint Board meeting.

Background: *5-Year Strategic Plan, Mission Statement – We Provide high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.*

Discussion/Analysis: The draft minutes of December 16, 2019 are provided for the Board to consider approval.

Environmental Review Compliance: None required.

Financial Impact:     \_\_\_Yes   \_\_\_X\_\_\_No     Funding Source/Recap: None

Other Considerations: The Board can suggest changes/corrections to the minutes.

Material Included for Information/Consideration: Draft minutes of December 16, 2019.

Action Required:     \_\_\_Resolution   \_\_\_X\_\_\_Motion   \_\_\_Review

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Board Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_ Abstained \_\_\_\_\_

Noes \_\_\_\_\_ Absent \_\_\_\_\_





# Marina Coast Water District

Regular Board Meeting/Groundwater Sustainability Agency Board Meeting  
211 Hillcrest Avenue, Marina  
December 16, 2019

## Draft Minutes

### 1. Call to Order:

President Moore called the meeting to order at 6:30 p.m. on December 16, 2019 at the Marina Council Chambers, 211 Hillcrest Avenue, Marina, California.

### 2. Roll Call:

#### Board Members Present:

Thomas P. Moore – President  
Jan Shriner – Vice President  
Herbert Cortez – arrived at 6:33 p.m.  
Peter Le  
Matt Zefferman

#### Board Members Absent:

None

#### Staff Members Present:

Keith Van Der Maaten, General Manager  
Roger Masuda, District Counsel  
Kelly Cadiente, Director of Administrative Services  
Derek Cray, Operations and Maintenance Manager  
Michael Wegley, District Engineer  
Don Wilcox, Senior Engineer  
Patrick Breen, Water Resources Manager  
Paula Riso, Executive Assistant/Clerk to the Board

#### Audience Members:

Andrew Sterbenz, Schaaf & Wheeler  
Philip Clark, Seaside Resident, WCC Member  
Gary Petersen, SVBGSA  
Vera Nelson, EKI Environment & Water  
Alessandra Bassanello, Marina Resident  
June Leong, Marina Resident  
Evy Smith, Marina Resident  
Kellee Noonan, Marina Resident

3. Public Comment on Closed Session Items:

There were no comments.

The Board entered into closed session at 6:32 p.m. to discuss the following items:

4. Closed Session:

A. Pursuant to Government Code 54956.9

Conference with Legal Counsel – Existing Litigation

- 1) Marina Coast Water District vs California-American Water Company, Monterey County Water Resources Agency; and, California-American Water Company, Monterey County Water Resources Agency vs Marina Coast Water District, San Francisco Superior Court Case Nos. CGC-15-547125, CGC-15-546632 (Complaint for Damages, Breach of Warranties, etc.)
- 2) Marina Coast Water District v, California Coastal Commission (California-American Water Company, Real Party in Interest), Santa Cruz County Superior Court Case No. 15CV00267, Sixth Appellate District Court of Appeals Case No. H045468
- 3) Bay View Community DE, LLC; Bryan Taylor; Greg Carter; and Brooke Bilyeu vs Marina Coast Water District; Board of Directors of Marina Coast Water District; County of Monterey and Does 1-25, inclusive, Monterey County Superior Court Case No. 18CV000765 (Petition for Writ of Mandate or Administrative Mandate, and Complaint for Declaratory and Injunctive Relief and Breach of Contract)
- 4) Marina Coast Water District, and Does 1-100 v, County of Monterey, County of Monterey Health Department Environmental Health Bureau, and Does 101-110, Monterey County Superior Court Case No. 18CV000816 (Petition for Writ of Mandate and Complaint for Injunctive Relief)
- 5) Marina Coast Water District, and Does 1-100 v, County of Monterey, Monterey County Board of Supervisors, and Does 101-110 (California-American Water Company, Real Property in Interest), Monterey County Superior Court Case No. 19CV003305 (Petition for Writ of Mandate and Complaint for Injunctive Relief)

B. Pursuant to Government Code 54956.9(d)(4)

Conference with Legal Counsel – Anticipated Litigation

Initiation of Litigation – Three Potential Cases

The Board ended closed session at 7:06 p.m.

President Moore reconvened the meeting to open session at 7:08 p.m.

5. Reportable Actions Taken during Closed Session:

Mr. Roger Masuda, District Counsel, stated that there were no reportable actions taken during Closed Session and direction was given to staff and counsel.

6. Pledge of Allegiance:

Director Zefferman led everyone present in the pledge of allegiance.

7. Oral Communications:

Ms. Evy Smith, Marina resident, commented that they would like to address the fact that they don't have a variance. President Moore stated that Agenda Item 14-B would be addressing the issue and Ms. Smith was welcome to make her comments at that time.

8. Election of Board President and Vice President:

Vice President Shriner made a motion to continue with Director Moore as President and herself, Director Shriner, as Vice President. Director Cortez seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Abstained	President Moore	-	Yes
Director Cortez	-	Yes			

9. Presentations:

A. Receive a Presentation Regarding the Census Bureau's Upcoming 2020 Census:

Ms. Diana Malkin, Census Bureau Partnership Specialist, was making a call to see if it was allowable to show the Census information on live television. The presentation is on hold for now.

B. Receive a Presentation from the Fort Ord Regional Habitat Cooperative regarding the Habitat Conservation Plan:

President Moore commented that this item has been tabled.

10. Marina Coast Water District Groundwater Sustainability Agency Matters:

A. Groundwater Sustainability Plan Workshop – Public Hearing:

1. Open a Public Hearing and Receive a Staff Report on the 180/400 Foot Aquifer Groundwater Sustainability Plan:

Mr. Patrick Breen, Water Resources Manager, introduced this item and noted that Ms. Vera Nelson, EKI Environment and Water, would give a brief presentation.

Agenda Item 10-A1 (continued):

Ms. Nelson gave a brief technical overview of the Groundwater Sustainability Plan (GSP) including the estimated water budget; undesirable results; measurable objectives and minimum thresholds; and, management actions and potential projects. She discussed the GSP implementation and comments provided by MCWD. Ms. Nelson stated that MCWD will continue the inter-basin coordination with the Salinas Valley Basin Groundwater Sustainability Agency. The Board asked clarifying questions of Ms. Nelson and Mr. Gary Petersen, Salinas Valley Basin Groundwater Sustainability Agency General Manager.

President Moore opened the Public Hearing at 8:05 p.m.

There were no public comments.

President Moore noted that the Public Hearing would remain open until next meeting. Vice President Shriner stated that the public can submit comments before the next hearing or at the next meeting in January.

11. Return to Marina Coast Water District Matters:

Ms. Paula Riso, Executive Assistant/Clerk to the Board, informed the President Moore that the presentation for Item 9-A would have to be held at a later date.

Director Le made a motion to move to Item 14-B, Legal Counsel Report, up on the agenda to be discussed before Item 12. The motion died for lack of a second.

12. Consent Calendar:

Director Le requested to pull all items from the Consent Calendar.

A. Receive and File the Check Register for the Month of November 2019:

Director Le questioned the check paid to the State Water Resources Control Board referring to the Desal Plant Brine discharge. Ms. Cadiente answered that the District still pays for the permit even though the plant is inactive.

Director Zefferman made a motion to receive the check register for the month of October 2019. Vice President Shriner seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Cortez	-	Yes	President Moore	-	Yes
Director Le	-	Yes			

B. Receive the Quarterly Financial Statements for July 1, 2019 to September 30, 2019:

Director Le asked for clarification on the RUWAP costs and why it doesn't show the budgeted amounts. Ms. Kelly Cadiente, Director of Administrative Services, answered that CIP projects don't show the budgeted amounts.

Agenda Item 12-B (continued):

Vice President Shriner made a motion to receive the Quarterly Financial Statements for July 1, 2019 to September 30, 2019. Director Zefferman seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Cortez	-	Yes	President Moore	-	Yes
Director Le	-	Yes			

C. Approve the Draft Minutes of the Regular Joint Board/GSA Meeting of November 18, 2019:

Director Le asked that page 4 of the minutes, Item E, include that he wanted the item brought back to discuss “goals and set policies”.

Director Zefferman made a motion to approve the draft minutes of the regular joint Board/GSA meeting of November 18, 2019 with the correction noted. Vice President Shriner seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Yes	President Moore	-	Yes
Director Cortez	-	Yes			

D. Consider Adoption of Resolution No. 2019-85 to Approve the Purchase of a Dump Truck for the Operations and Maintenance Department:

Director Le asked when the truck would be delivered, who would put the logo on the truck and if there was a radio in the truck. Mr. Derek Cray, Operations and Maintenance Manager, noted that the truck would be delivered in approximately three weeks and staff would get the logo on the truck and get a radio installed.

Vice President Shriner made a motion to adopt Resolution No. 2019-85 to approve the purchase of a dump truck for the Operations and Maintenance Department. Director Zefferman seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Yes	President Moore	-	Yes
Director Cortez	-	Yes			

E. Consider Adoption of Resolution No. 2019-86 to Approve an Amendment to the Jones Hall Legal Services Agreement Increasing the Contract Amount from \$75,000 to \$80,000 for Bond Counsel and Disclosure Counsel Services on the 2019 Enterprise Revenue Certificates of Participation Financing:

Director Le said he did not have any questions but pulled this item to have a separate vote.

Agenda Item 12-E (continued):

Vice President Shriner made a motion to adopt Resolution No. 2019-86 to approve an amendment to the Jones Hall Legal Services Agreement increasing the contract amount from \$75,000 to \$80,000 for Bond Counsel and Disclosure Counsel Services on the 2019 Enterprise Revenue Certificates of Participation Financing. President Moore seconded the motion. The motion failed by the following vote:

Director Zefferman	-	Abstained	Vice President Shriner	-	Yes
Director Cortez	-	Abstained	President Moore	-	Yes
Director Le	-	No			

President Moore asked if there was a reason for the abstentions on the vote and if anyone had any clarifying questions. Director Zefferman asked what the increase was for. Ms. Cadiente answered it was because of the litigation that arose after the agreement was first approved. Director Zefferman stated that he thought this was a different item. Director Cortez asked for clarification on the additional \$5,000 charge. Ms. Cadiente answered that it was for the additional CPUC work and the litigation with Bay View.

Director Zefferman made a motion to adopt Resolution No. 2019-86 to approve an amendment to the Jones Hall Legal Services Agreement increasing the contract amount from \$75,000 to \$80,000 for Bond Counsel and Disclosure Counsel Services on the 2019 Enterprise Revenue Certificates of Participation Financing. Vice President Shriner seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Cortez	-	Yes	President Moore	-	Yes
Director Le	-	No			

F. Consider Approving the Proposed Regular Board/GSA Meeting and Workshop Meeting Schedule for 2020:

Director Le asked to add a one-day retreat in March or April to the schedule and have all the attorneys present to go over all the open litigations. Director Cortez suggested increasing compensation for attending an all-day weekend meeting because it is difficult for childcare. Director Zefferman suggested holding the December 21, 2020 meeting on December 14, 2020. Mr. Keith Van Der Maaten, General Manager, noted that the first Monday of each month is held for special meetings or workshops and could be used whenever the Board wants.

Director Zefferman made a motion to approve the proposed regular Board/GSA meeting and Workshop meeting schedule for 2020 with the December meeting moved to December 14, 2020, and staff will check with Director and legal counsel availability for a possible March or April special meeting/workshop. Vice President Shriner seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Cortez	-	No	President Moore	-	Yes
Director Le	-	Yes			

13. Action Items:

- A. Consider Adoption of Resolution No. 2019-87 to Approve Amendment No. 6 to the Professional Services Agreement of Carollo Engineers for Design of the Regional Urban Water Augmentation Project Distribution Mains Project:

Mr. Don Wilcox, Senior Engineer, introduced this item. Director Le questioned item 1 under the Resolved portion of the Resolution. Mr. Wilcox answered that he had used another Resolution as a template, and it should have been removed. Director Le noted that the Carollo letter had a typo calling this a “City Contract No. 2009-31”. Mr. Wilcox answered that they must have used an old letter as a template and missed that reference. Director Cortez asked if this project was within budget. Mr. Wilcox answered the budget was in good shape. President Moore suggested removing item 1 under the Resolved portion of the Resolution and renumbering the following findings. He also asked who installed the recycled water pipeline. Mr. Wilcox said that it looks like UCMBEST had the pipes installed. The Board asked clarifying questions.

Vice President Shriner made a motion to adopt Resolution No. 2019-87 approving Amendment No. 6 to the Professional Services Agreement of Carollo Engineers for design of the Regional Urban Water Augmentation Project Distribution Mains Project with the removal of item 1 under the Resolved section and renumbering the remaining findings; and at a future workshop look into the location and easements of the recycled water pipeline in question. Director Zefferman seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Yes	President Moore	-	Yes
Director Cortez	-	No			

- B. Consider Adoption of Resolution No. 2019-88 to Reject all Bids on the Imjin Lift Station Improvement Project Phase I and Direct Staff to Rebid the Project:

Mr. Michael Wegley, District Engineer, introduced this item explaining that there were bidder irregularities where all but one bidder failed to list the Department of Industrial Relations Registration for their sub-contractors. He also noted that the second placed bidder filed a protest because the winning bid did not list the manufacturer for the panel. Mr. Wegley stated that for these reasons, staff would like to rebid the project. The Board asked clarifying questions.

Vice President Shriner made a motion to adopt Resolution No. 2019-88 rejecting all bids on the Imjin Lift Station Improvement Project Phase I and direct staff to rebid the project. President Moore seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Yes	President Moore	-	Yes
Director Cortez	-	Yes			

C. Consider Adoption of Resolution No. 2019-89 to Approve Three Grant of Easement Agreements Between Marina Coast Water District and the City of Seaside for the Ord Village Lift Station and Force Main Project:

Mr. Wilcox introduced this item noting the City of Seaside approved these easements on December 5, 2019 with only one small addition, that the site be esthetically pleasing. Director Le commented that the Resolution should be to “accept” the three easements, not “approve” the easements, also, the Now, Therefore be it Resolved should read: “authorize the General Manager to execute the Certificates of Acceptance for the three Grants of Easements”.

Director Le made a motion to adopt Resolution No. 2019-89 with the title changed to “Accept and approve three Grant of Easement Agreements between Marina Coast Water District and the City of Seaside for the Ord Village Lift Station and Force Main Project” and the Now, Therefore be it Resolved to read: “...authorize the General Manager to execute the Certificates of Acceptance for the three Grants of Easements...”. Director Zefferman seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Yes	President Moore	-	Yes
Director Cortez	-	Yes			

D. Consider Adoption of Resolution No. 2019-90 for the Purchase of One New Standby Generator for the Ord Village Lift Station:

Mr. Cray introduced this item explaining that there was a fire in the old generator, and it needs replacement sooner than expected. Director Le asked what the cause of the fire was. Mr. Cray answered that it was difficult to assess what caused the fire due to the extensive damage, but it was assumed that perhaps something rusted out and caused an arc which started the fire.

Director Zefferman made a motion to adopt Resolution No. 2019-90 for the purchase of one new standby generator for the Ord Village Lift Station. Vice President Shriner seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Cortez	-	Yes	President Moore	-	Yes
Director Le	-	Yes			

E. Consider Adoption of Resolution No. 2019-91 to Approve District Collection of Delinquent Water Accounts Policy:

Ms. Cadiente introduced this item explaining that SB998 was recently passed and it affects the District’s notification and process to terminate service for non-payment. She stated that the District has to publish the notice in any language that at least 10% of the population spoke. Director Le asked what the required languages were. Ms. Cadiente answered that they were determined to be Spanish, Korean, Vietnamese, and Tagalog. Director Le asked when the Board would be able to see the translated policy. Ms. Cadiente answered it would probably take a few weeks to allow for translation.



Agenda Item 13-E (continued):

Director Cortez asked how many customers end up getting shut-off for non-payment and how many get their service turned back on after paying the fees. Ms. Cadiante answered that last year there were 77 accounts that were shut-off but did not know how many did not get their service turned back on. Director Cortez asked staff to give an update at the next meeting on how many did not get their service turned back on.

Director Cortez made a motion to adopt Resolution No. 2019-91 to approve District Collection of Delinquent Water Accounts Policy. Director Zefferman seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Yes	President Moore	-	Yes
Director Cortez	-	Yes			

- F. Consider Proposed Comment Letter to Monterey One Water on the Draft Supplemental Environmental Impact Report for the Proposed Modifications to the Pure Water Monterey Groundwater Replenishment Project:

Mr. Wegley introduced this item explaining that staff's questions were provided as well as comments provided by Director Le.

Director Le made a motion to direct the General Manager to work with Legal Counsel to refine the comments and submit them to Monterey One Water before the deadline. Vice President Shriner seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Yes	President Moore	-	Yes
Director Cortez	-	Yes			

- G. Consider Adoption of Resolution No. 2019-64 to Approve the Addition of a Social Media Policy; and, Clarifying the Harassment and Bullying Language to the Board Procedures Manual:

President Moore noted that he and other Directors submitted comments and they could try to go through everything at the meeting or have staff incorporate the comments and bring them back at the next meeting.

Director Zefferman commented that the Outreach Committee worked on the Social Media Policy at their last meeting and it seems the entire Board Procedures Manual (BPM) is particularly unwieldy and he suggested to do a complete review to remove some of the redundant language.

Director Le commented the agenda only allows the Social Media Policy and Bullying language to be discussed and he would like to see each Director review the entire BPM and provide changes to be discussed over the next several meetings.

Agenda Item 13-G (continued):

Director Cortez stated that the BPM has been looked at piecemeal and not collectively as a whole and the whole document doesn't read well. He would like to review the document as a whole and streamline it.

President Moore asked if the Board would like to send the BPM to an Ad Hoc Committee for review. Director Zefferman said he would be interested in working on the BPM. Director Cortez said he would be interested as well, either as an Ad Hoc Committee or on the Outreach Committee.

Director Le made a motion to refer the revision of the BPM to an Ad Hoc Committee. President Moore seconded the motion. The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Yes	President Moore	-	Yes
Director Cortez	-	Yes			

H. Consider Director Appointments to Standing Committees of the Board and to Outside Agencies for 2020, and as Negotiators to any Ad Hoc Committees of the Board:

Vice President Shriner made a motion that all appointments to remain the same as 2019 with the following exceptions:

- Director Zefferman be the primary member to the Water Conservation Commission; with Vice President Shriner as the alternate;
- the General Manager the primary on FORA with Director Zefferman, and Director Shriner as alternates.

President Moore seconded the motion. Director Zefferman suggested an additional alternate to FORA.

Vice President Shriner amended her motion to have President Moore as the third alternate to FORA. President Moore seconded the amended motion. The appointments are as follows:

- |    |                               |                                          |
|----|-------------------------------|------------------------------------------|
| 1. | Water Conservation Commission | Zefferman - Shriner as Alternate         |
| 2. | Joint City/District Committee | Moore, Shriner – Cortez as Alternate     |
| 3. | Executive Committee           | Moore, Shriner                           |
| 4. | Budget and Personnel          | Cortez, Shriner – Zefferman as Alternate |
| 5. | Community Outreach            | Cortez, Zefferman – Shriner as Alternate |

Current appointments to outside agencies:

- |    |           |                                                           |
|----|-----------|-----------------------------------------------------------|
| 1. | M1W       | Moore – Zefferman as Alternate                            |
| 2. | FORA      | General Manager – Zefferman, Shriner, Moore as Alternates |
| 3. | LAFCO     | Cortez – Zefferman as Alternate                           |
| 4. | JPIA      | Le – Cortez as Alternate                                  |
| 5. | SDA       | Le – Moore, Shriner, Cortez, and Zefferman as Alternates  |
| 6. | FORA WWOC | GM – Zefferman as Alternate                               |

Agenda Item 13-H (continued):

The motion was passed by the following vote:

Director Zefferman	-	Yes	Vice President Shriner	-	Yes
Director Le	-	Abstained	President Moore	-	Yes
Director Cortez	-	Yes			

14. Informational Items:

A. General Manager's Report:

Mr. Van Der Maaten commented that the District's Annual Chili Cook-Off, and the Holiday Pancake Breakfast were great events for District staff and he appreciated that several Directors were able to attend and celebrate with everyone.

B. Counsel's Report:

a. Verbal Report on the Dunes Variance Request:

Mr. Roger Masuda, District Counsel, made the following statement: "The Dunes' hot water recirculation issue was resolved by the General Manager's September 19, 2018 letter to Shea Homes, which stated that a properly installed and operable Grundfos Comfort valve retrofit satisfies Shea Homes' obligation to comply with the District's requirements. Therefore, there is no basis for the District to consider anything further on this matter as explained in the General Manager's November 22, 2019 letter to Ms. Smith. The District understands that out of the 118 homes in which Shea Homes had not originally installed a hot water recirculation system: 1) retrofits have been installed in 105 homes and are operating satisfactorily; 2) 1 home was otherwise resolved; 3) 6 homeowners have refused a retrofit; and, 4) 6 homeowners could not be reached.

Mr. Van Der Maaten commented that Shea Homes also put in the pipe insulation and expansion tanks on the homes as well, and the City of Marina has signed off on them. Director Le asked if there is a deadline for the 12 homeowners that didn't get the retrofit. Mr. Van Der Maaten answered that he understood that Shea Homes would still be willing to put in the retrofit if the homeowners wanted it. President Moore clarified that the requirement only applies to brand new homes.

C. Committee and Board Liaison Reports:

1. Water Conservation Commission:

Mr. Breen stated they met on December 5<sup>th</sup> and the next meeting would be January 9, 2020.

2. Joint City District Committee:

President Moore stated they did not meet in December and the next meeting would be February 26, 2020.

3. Executive Committee:

President Moore noted that they met December 3rd and that the next meeting is scheduled for January 14, 2020.

4. Community Outreach Committee:

Director Zefferman gave a brief update stating they discussed the Board Procedures Manual.

5. Budget and Personnel Committee:

Director Cortez stated they did not meet in December.

6. M1W Board Member:

President Moore gave a brief update and noted there is a special meeting scheduled for December 19th.

7. LAFCO Liaison:

No report was given.

8. FORA:

No report was given.

9. WWOC:

Mr. Van Der Maaten noted the next meeting was in January.

10. JPIA Liaison:

No report was given.

11. Special Districts Association Liaison:

President Moore stated the next meeting is scheduled for January 21st.

12. SVGSA Liaison:

No report was given.

15. Correspondence:

There were no comments made.

16. Board member Requests for Future Agenda Items:

President Moore noted that the Board members can email in their requests. Director Le stated that he submitted a report on the conference he attended in December and asked that it be included in the next Board packet. Director Cortez asked to discuss Board member compensation for 2020. Director Le also asked to see the results from the AEM 2.0; discussion on how much to charge for recycled water; what to do with the 600 feet of recycled water the District would get next year, and status of the master plans including the timeline.

17. Director's Comments:

Director Cortez, Director Zefferman, Vice President Shriner, and President Moore made comments.

18. Adjournment:

The meeting was adjourned at 9:48 p.m.

APPROVED:

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Thomas P. Moore, President

ATTEST:

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Paula Riso, Deputy Secretary

Marina Coast Water District  
Agenda Transmittal

Agenda Item: 12-A

Meeting Date: January 29, 2020

Prepared By: Paula Riso

Approved By: Keith Van Der Maaten

Agenda Title: Consider Appointments of Two Public Members to the Vacant Positions on the Water Conservation Commission

Staff Recommendation: The Board receive the applications, consider the qualifications of the applicants, and appoint two members to the Water Conservation Commission from the applications received and select which appointees will serve the remainder of the three-year term, and which one will serve the remainder of the two-year terms.

Background: *5-Year Strategic Plan, Objective 1.7 – Review and update our water conservation program.*

In August 2018, the Board approved the restructure of the Water Conservation Commission to improve the effectiveness of the Commission through implementation of more formal and professional proceedings; clarification of roles, responsibilities, objectives, and goals; establishing necessary training and staff support to keep Commission informed on items within their purview; and, by creating a closer connection of the advisory body proceedings and necessary Board decisions. As part of the restructure, the number of positions on the Commission was reduced from ten to five and it was recommended to re-advertise the openings and have the Board select five members from the applications received.

In December 2018, the Board appointed five members to serve on the Commission. In October 2019, two members resigned from their positions due to employment conflicts. Staff has advertised the vacant positions and received two applications.

Discussion/Analysis: The Board is requested to review the two applications received for the vacant positions and consider making appointments to the two vacant positions on the Water Conservation Commission from the applications received.

Environmental Review Compliance: None Required.

Financial Impact:  Yes  No Funding Source/Recap: None Required.

Other Considerations: None.

Material Included for Information/Consideration: Applications for appointment to the WCC from Donna Dulo, and Dennis Robinson.

Action Required:  Resolution  Motion  Review

---

Board Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_

Abstained \_\_\_\_\_

Noes \_\_\_\_\_

Absent \_\_\_\_\_



# Marina Coast Water District

Return to:

11 Reservation Road, Marina, CA 93933  
(831) 384-6131 Fax (831) 883-5995  
Or: Conservation@mcwd.org

## Candidate for Water Conservation Commission

Description of Duties: The Commission members are advisory to the Board of Directors and their mission is to set the outreach plans/event schedule for the year; review conservation goals and evaluation metrics; review and update Policies and Ordinances; review water loss programs within Water Resources Programs; and, make advisory recommendations on decisions coming before the Board of Directors.

Name: Dennis M. Robinson  
Address: 221 Hillcrest Ave Marina, CA 93933  
Home Phone: 650-450-0055 Business Phone: 650-450-0055  
Email Address: dennis.m.robinson@yahoo.com Years as Customer of MCWD: 1st yr.  
Business Affiliation: Torrey Project Title: Chief Philanthropy Officer  
Business Address: 8910 University Lane, San Diego, CA 92122 (work from home)  
Educational Background: Grad. Certificate - Design, Partnering, Mgmt. + Innovation  
(Middlebury Institute of International Studies - Monterey)  
B.A. Fisk University, Nashville TN

Occupational Experience: 13 years - Nonprofit & Community Development  
17 years - Philanthropy (Advancement / Philanthropic Advising)  
5 years - Community Development Consulting

Membership in Professional or Technical Organizations: N/A

Civic or Community Experience, Memberships or Previous Public Service Appointments: \_\_\_\_\_  
2018 Appointee Gov. Brown - CA Library Assn.  
Civil Liberties Public Education Grants Advisory Panel  
Legislative Regulatory Committee - Nat'l Community Revivestment Coalition

Experience or Special Knowledge Pertaining to Area of Interest: \_\_\_\_\_  
Staff Coordinator - Project to remediate 37-acre Brownfield site (Denton Tire & Rubber)  
Community Liaison Office - repository of EPA records for \$5M PCB Cleanup.  
Grant Writer - funding for Wesleyan Nature Center (1 of 4 Urban Wetlands)

Signature: [Handwritten Signature]

Date: 12/19/20

**RECEIVED**  
JAN 17 2020

BY: David





# Marina Coast Water District

Return to:

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Description of Duties: The Commission members are advisory to the Board of Directors and their mission is to set the outreach plans/event schedule for the year; review conservation goals and evaluation metrics; review and update Policies and Ordinances; review water loss programs within Water Resources Programs; and, make advisory recommendations on decisions coming before the Board of Directors.

Name: Donna Ann Dulo

Address: 223 Naples Rd Seaside CA 93955

Home Phone: 831-277-2474 Business Phone: 831-277-2474

Email Address: tyramisu1@gmail.com Years as Customer of MCWD: 22

Business Affiliation: Dept of Army Title: Engineer/Analyst

Business Address: 400 Gigling Rd Room 1134 Dept. of Defense Center Seaside CA 93955

Educational Background: JD - Monterey College of Law; MS - Naval Postgraduate School;

MA - Naval War College; MAS - Embry-Riddle Aeronautical University; MS - Johns Hopkins University

MBA - City University of Seattle; BS - US Coast Guard Academy & SUNY; Diploma - College of Naval

Command & Staff; Diploma - Marine Corps Command & Staff College; Diploma - Defense Language Inst.

Occupational Experience: Active Duty: US Coast Guard & US Army - 8 Years; 24 years in Department of  
Defense as DoD Civilian as Mathematician, Computer Scientist (current position - Software Engineer);

15 Years teaching experience including current position as Program Chair, Computer Science Dept at  
Sofia University; Currently work with American Bar Association as a law book author and aviation law  
consultant

Membership in Professional or Technical Organizations: \_\_\_\_\_

Society of Naval Architects & Marine Engineers (SNAME); American Mathematical Association; American

Chemical Society (ACS); American Statistical Association; Disabled American Veterans (DAV); Institute  
for Electrical and Electronic Engineers (IEEE); American Bar Association (ABA)

Civic or Community Experience, Memberships or Previous Public Service Appointments: \_\_\_\_\_

Board of Directors - United Nations Association - 2 years; Volunteer Firefighter & EMT - 16 years

in New Jersey and California; Defense Language Institute - Secretary: Academic Senate - 2 years

Board of Directors - Roebling (NJ) Rescue Squad - 3 years;

Experience or Special Knowledge Pertaining to Area of Interest: Experienced in water conservation and  
water operations, environmental protection from Coast Guard experience including participation in Exxon  
Valdiz and other cleanups; Water Law class completed at MCL; Environmental Law class completed at Johns

Hopkins; Strong interest in water conservation and environmental protection.

Donna Dulo

30 December 2019

Signature

Date

Marina Coast Water District  
Agenda Transmittal

Agenda Item: 12-B

Meeting Date: January 29, 2020

Prepared By: Michael Wegley

Approved By: Keith Van Der Maaten

Agenda Title: Consider Adoption of Resolution No. 2020-02 to Approve Amendment No. 5 to the Professional Services Agreement with Akel Engineering Group, Inc. for the Master Plans and Capacity Fees Study for Sewer, Water and Recycled Water

Staff Recommendation: Staff recommends that the Board of Directors adopt Resolution No. 2020-02 approving Amendment No. 5 to the Professional Services Agreement with Akel Engineering Group, Inc. to add the total dollar amount of \$80,608 for a not-to-exceed contract amount of \$698,556 to complete the Master Plans and Capacity Fee Study for Sewer, Water and Recycled Water; and, to authorize the General Manager to take all actions and execute all documents as may be necessary or appropriate to give effect to this resolution.

Background: *5-Year Strategic Plan, Mission Statement – To provide our customers with high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.*

The District engaged Akel Engineering Group, Inc. (Akel) to prepare the master plans and capacity fee study for sewer, water and recycled water for \$463,715.00. The Board approved four contract amendments increasing the contract to \$617,948.

Reviews of the draft master plans and capacity fees at all levels led to multiple revisions in the capital improvement projects, cost estimates and capacity fees. Akel then prepared the final draft reports based on comments received for the Draft Sewer, Water, and Recycled Water Master Plans and Capacity Fee Study. Akel's subconsultant, Bartle Wells & Associates, updated the draft capacity fee study using the Hybrid Buy-In + Marginal Future cost methodology to comprehensively recover the development share of existing facilities and capital improvement projects benefiting future users.

Additional meetings were held with stakeholders and the Fort Ord Reuse Authority Water and Wastewater Oversight Committee. In addition, a technical review meeting was held to review the final draft master plans and capacity fees.

Discussion and Analysis: Attachment 1 is the proposed Amendment No. 5 Proposal and Fee Estimate. An explanation of the scope changes in Amendment 5 is as follows. Four new specific plans emerged as the master plans progressed. They are:

- Campus Town in the City of Seaside
- Amended Main Gate in the City of Seaside
- The Downtown Vitalization Plan in the City of Marina
- The Marina Airport Business Park in the City of Marina

The Campus Town Specific Plan proposes 441.6 Acre Feet per Year (AFY) of potable water demand with only 181.3 AFY of available water allocation. The City proposes to secure additional

water supplies to offset 260.3 AFY of potable water based upon available programs which may include:

- Bayonet and Blackhorse Golf Course in lieu-storage and recovery (up to 450 AFY)
- Seaside Highlands and Soper Field recycled water substitution (43.1 AFY and 10 AFY)

The Main Gate Specific Plan adopted by the City of Seaside in 2010 proposed 213 AFY and allocated 149 AFY of potable water demand for an initial phase. The City is amending the adopted specific plan with an increase in demand of 37.4 AFY to 250.4 AFY. This leaves 101.4 AFY of additional water supply needed to meet the amended project demand. The City may propose to secure additional water supplies to offset the 101.4 AFY of additional water supply for the amended project like the supply programs for Campus Town.

The City of Marina's Downtown Vitalization Plan project roughly consists of the redevelopment of the Reservation Road and Del Monte Boulevard corridors within the City of Marina with increased residential densities and expansion of commercial zoning. The plan in progress is estimated to add up to 1,016.9 AFY of potable water demand for infill development within the downtown core and up to 164 AFY of potable water demand outside the downtown core of Central Marina. Water use through 2018 averaged 1,600 AFY in Central Marina.

The Marina Airport Business Park proposed jointly by the City of Marina and UCMBEST, roughly consists of the development of the area of land to the south and to the east of the Marina Airport and borders Reservation Road and Blanco on the Former Fort Ord. The Draft Specific Plan Marina Municipal Airport Business and Industrial Park/UC MBEST Center estimates 127.1 AFY of potable water demand for the City owned portion of the development and 143.6 AFY of potable water demand for the UC owned portion of the development.

Based on stakeholder meeting input and technical meeting reviews, these four specific plans will impact the master plans and capacity fees.

Akel will update the master plans to include these four specific plans and update the proposed capacity fees to reflect the revisions. Akel's scope of tasks include revising:

- the original land use assumptions to incorporate the specific plans,
- the future system evaluation for near term and buildout conditions
- the capital improvement program
- proposed capacity fees

The scope also includes up to 5 additional meetings with stakeholders, MCWD staff and the Board of Directors. The contract amendment amount requested for the additional work is \$80,608. This represents \$62,608 for Akel's master planning efforts and \$18,000 for Bartle Wells capacity fee efforts. The proposed schedule for this additional work is to propose new capacity fees for adoption in July.

Environmental Review Compliance: California Environmental Quality Act (CEQA) review is part of the individual projects and not part of the Sewer, Water and Recycled Water Master Plans.

Financial Impact:  X  Yes   No Funding Source/Recap: Sufficient funds are available in the Engineering Consultants budget line.

Other Considerations: None



January 29, 2020

Resolution No. 2020-02  
Resolution of the Board of Directors  
Marina Coast Water District

Approving Amendment No. 5 to the Professional Services Agreement with Akel Engineering Group, Inc. for Master Plans and Capacity Fees Study for Sewer, Water and Recycled Water

RESOLVED by the Board of Directors (“Directors”) of the Marina Coast Water District (“District”), at a regular meeting duly called and held on January 29, 2020, at 211 Hillcrest Avenue, Marina, California as follows:

WHEREAS, on November 21, 2016, the Board adopted Resolution No. 2016-66 that approved a Professional Services Agreement with Akel Engineering Group, Inc. for the Master Plans and Capacity Fees Study for Sewer, Water and Recycled Water; and,

WHEREAS, on April 18, 2018, the General Manager approved Amendment No. 1 to the Professional Service Agreement with Akel Engineering Group, Inc. for scope, fee and schedule changes to update 2017 CIP construction costs for the rate study, review fire flow criteria with fire department officials and update the hydraulic model and storage analysis in the amount of \$14,694; and,

WHEREAS, on October 15, 2018 the Board of Directors approved Amendment No. 2 for scope, fee and schedule changes to develop and update existing and future land uses based on comments received and allowable growth projections for the Fort Ord Reuse Authority (FORA) Base Reuse Plan capital improvement program; Equivalent Dwelling Unit Analysis and meetings with the FORA Water and Wastewater Oversight Committee; Update Water and Sewer System Evaluations for recommended improvements in the Capital Improvement Program in the amount of \$52,059; and,

WHEREAS, on April 15, 2019 the Board of Directors approved Amendment No. 3 for scope, fee and schedule changes to review of the draft sewer masterplan for errors discovered in pump station data used for sewer modelling and master planning, that needed to be fixed; and, staff requested an evaluation of a fee structure for a 15-year development capital improvement program (CIP) horizon rather than for full buildout in the amount of \$38,550; and,

WHEREAS, on September 16, 2019 the Board of Directors approved Amendment No. 4 for the scope and fee changes for additional staff level reviews of the master plans and capacity fees involving additional meetings and web conferences, multiple revisions in the capital improvement projects and cost estimates for each enterprise fund prior to release of the Draft Master Plans; an evaluation of fee calculation methodologies leading to the selection of the Hybrid Buy-In + Marginal Future cost methodology and multiple revisions and adjustments that went into the Draft Capacity Fee Study; and additional meetings with Stakeholders, FORA WWOC and MCWD in the amount of \$48,930; and,

WHEREAS, stakeholder meeting input and technical meeting reviews identified four specific plans that will impact the master plans and capacity fees; and,

WHEREAS, the four specific plans are Campus Town in the City of Seaside, Amended Main Gate in the City of Seaside, The Downtown Vitalization Plan in the City of Marina, The Marina Airport Business Park in the City of Marina; and,

WHEREAS, adding the four specific plans will require updating the master plans to include revising the original land use assumptions to incorporate the specific plans; revising the future system evaluation for near term and buildout conditions; revising the capital improvement program; and revising the proposed capacity fees; and,

WHEREAS, Akel estimated the total fee for this work as Amendment No. 5 to be \$80,608.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Marina Coast Water District does hereby approve Amendment No. 5 to the Professional Services Agreement with Akel Engineering Group, Inc. for the scope and fee changes for additional Master Plan and Capacity Fee consulting services in the amount of \$80,608.

BE IT FURTHER RESOLVED, to authorize the General Manager to take all actions and execute all documents as may be necessary or appropriate to give effect to this resolution.

PASSED AND ADOPTED on January 29, 2020 by the Board of Directors of the Marina Coast Water District by the following roll call vote:

Ayes: Directors \_\_\_\_\_

Noes: Directors \_\_\_\_\_

Absent: Directors \_\_\_\_\_

Abstained: Directors \_\_\_\_\_

\_\_\_\_\_  
Thomas P. Moore, President

ATTEST:

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

CERTIFICATE OF SECRETARY

The undersigned Secretary of the Board of the Marina Coast Water District hereby certifies that the foregoing is a full, true and correct copy of Resolution No. 2020-02 adopted on January 29, 2020.

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

**Marina Coast Water District  
Water, Sewer, Recycled Water Master Plans  
Budget Update and Out of Scope Requests  
Amendment No. 5**

(January 16, 2020)

PRELIMINARY

Item	Description	Initial Scope vs. Out of Scope tasks	Costs		
			Bartle Wells	Notes / Status	Total Cost
<b>Completed and Remaining Key Tasks as of Amendment No. 4.</b>					
The following are remaining tasks, some of which are included in the initial scope of work, while others are out of scope, as noted below.					
a	Groundwater Injection Barrier Project was integrated into the Recycled Water Master Plan, the CIP was updated, and the Capacity Fees were revised.	Included in Amendment No. 4		Completed.	
b	Support Capacity Fees development with CIP iterations, and various meetings to discuss changes to the Capacity Fee program. This includes varying methodologies and revisions to the CIP based on updated planning estimates from MCWD staff.	Included in Amendment No. 4		Completed	
c	Update Water, Sewer, and Recycled Water Master Plans to remove discussion on Capacity Fees.	Included in Amendment No. 4		Completed	
d	Address comments received as of 8/23/2019 from FORA and MCWD Board.	Included in Amendment No. 4		Completed	
e	Attend up to 8 additional meetings total with Stakeholders, FORA WWOC, FORA Board, and MCWD.	Included in Amendment No. 4		Completed 6 of 8 meetings.	
	Incorporate additional comments from Stakeholders, including removing or reducing improvements	Out of Scope Amendment No. 4		Completed	
f	Revise the future planning area land use to incorporate the specific plans and key development areas for the following: Campus Town Marina Downtown Vitalization Main Gate UCMBEST / Airport Industrial Area Infills	Added Scope of Work task		New Item	
	This task includes revising the land use mapping and acreage assumptions to incorporate the planning for the areas included in the Specific Plans and infill areas.				
g	Revise the future system evaluation, for near term and buildout conditions, based on the revised land use	Added Scope of Work task		New Item	
h	Update Capital Improvement Program and Capacity Fees based on revised future system evaluation	Added Scope of Work task		New Item	
i	Attend up to 5 additional meetings total with Stakeholders, and MCWD Staff and Board.	These items are out of scope (Item 2)		New Item	
j	Provide 15 hard copies of the Master Plans and 30 hard copies of the Capacity Fees.	Revised Scope of Work Task		Revised Item	
<b>Contract Total (including Amendments)</b>					<b>\$617,948</b>
1	<b>AEG</b> Remaining Budget (as of 12/31/2019)				\$16,566
2	<b>AEG - Out of Scope Change Order Request</b>				\$62,608
3	<b>Bartle Wells - Out of Scope Change Order Request</b>		\$18,000	Akel is waiving the 10% cost for this task	\$18,000
	Amount 1 for additional meetings at \$8,000 per email dated 10/9/2019 and approved for processing. Amount 2 for additional scope requested on 12/9/2019 and at \$10,000.				
4	<b>Total Change Order Request</b>				<b>\$80,608</b>



**Marina Coast Water District**  
**Water, Sewer, Recycled Water Master Plans**  
**Amendment No. 5**  
**Fee Estimate**  
(January 16, 2020)

PRELIMINARY

Task No.	Task Description	Scope of Work	Water and Sewer Master Plan Elements Impacted	Hours							Costs			Status
				Principal	Senior Engineer	Associate Engineer	Assistant Engineer	Engineering Assistant	GIS Technician	Secretarial	Labor Costs	Other	Total Cost	
				\$194	\$176	\$157	\$118	\$107	\$107	\$80				
<b>Task 1</b>	<b>Land Use Update</b>													
Task 1.1	Incorporate Specific Plans	Revise the future planning area land use to incorporate the specific plans and key development areas for the following: Campus Town Marina Downtown Vitalization Main Gate UCMBEST / Airport Industrial Area Infills  This task includes revising the land use mapping and acreage assumptions to incorporate the planning for the areas included in the Specific Plans and infill areas.	Future Land Use	1	4	14	6	2	4		\$4,446		\$4,446	Pending Approval
<b>Subtotal - Task 1</b>				<b>1</b>	<b>4</b>	<b>14</b>	<b>6</b>	<b>2</b>	<b>4</b>		<b>\$4,446</b>		<b>\$4,446</b>	
<b>Task 2</b>	<b>Update Water Master Plan</b>													
Task 2.1	Update Future Water Demand	This task consists of updating the future water demands based on revised future land use. Demands will be incorporated into the water system hydraulic model. Tables will be prepared documenting the future demands.	Future Demands		4	10	8	2	6		\$4,074		\$4,074	Pending Approval
Task 2.2	Future System Evaluation	This task consists of a revised future system evaluation incorporating the updated water demands.	Recommended Improvements, Capital Improvement Program	2	6	12	8	2	4		\$4,914		\$4,914	Pending Approval
Task 2.4	Update Capital Improvement Program	This task includes updating the capital improvement program and capacity fees based on the results of the future system evaluation for the limited growth alternative. Tables and figures will be prepared documenting the capital improvement program.	Capital Improvement Program, Capacity Fees	2	6	14	6	2	6		\$5,206		\$5,206	Pending Approval
Task 2.4	Update Master Plan Report	This task includes updating the master plan report based on the updated land use, evaluation, and capital improvement program.	Master Plan Report	2	6	14	6	2	8		\$5,420		\$5,420	Pending Approval
<b>Subtotal - Task 2</b>				<b>6</b>	<b>22</b>	<b>50</b>	<b>28</b>	<b>8</b>	<b>24</b>		<b>\$19,614</b>		<b>\$19,614</b>	
<b>Task 3</b>	<b>Update Sewer Master Plan</b>													
Task 3.1	Update Future Sewer Flow	This task consists of updating the future sewer flows based on revised future land use. Flows will be incorporated into the sewer system hydraulic model. Tables will be prepared documenting the future sewer flows.	Future Flows		4	10	8	2	6		\$4,074		\$4,074	Pending Approval
Task 3.2	Future System Evaluation	This task consists of a revised future system evaluation incorporating the updated sewer flows.	Recommended Improvements, Capital Improvement Program	2	6	12	8	2	4		\$4,914		\$4,914	Pending Approval
Task 3.4	Update Capital Improvement Program	This task includes updating the capital improvement program and capacity fees based on the results of the future system evaluation for the limited growth alternative. Tables and figures will be prepared documenting the capital improvement program.	Capital Improvement Program, Capacity Fees	1	4	10	4	2	6		\$3,796		\$3,796	Pending Approval
Task 3.4	Update Master Plan Report	This task includes updating the master plan report based on the updated land use, evaluation, and capital improvement program.	Master Plan Report	2	6	14	6	2	8		\$5,420		\$5,420	Pending Approval
<b>Subtotal - Task 3</b>				<b>5</b>	<b>20</b>	<b>46</b>	<b>26</b>	<b>8</b>	<b>24</b>		<b>\$18,204</b>		<b>\$18,204</b>	
<b>Task 4</b>	<b>Project Management and Meetings</b>													
Task 4.1	Project Management	This task accounts for miscellaneous project management.		10	20						\$5,460		\$5,460	Pending Approval
Task 4.2	In-Person Meetings	Attend up to 5 additional meetings total with Stakeholders, and MCWD Staff and Board.		40	40						\$14,800		\$14,800	Pending Approval
Task 4.3	Report Reproduction	Provide 15 hard copies of the Master Plans and 30 hard copies of the Capacity Fees.									\$0	\$16,650	\$16,650	Pending Approval
<b>Subtotal - Task 4</b>				<b>50</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>\$20,260</b>		<b>\$36,910</b>	
<b>Totals</b>														
<b>Task 1, 2, 3, &amp; 4 Total</b>				<b>62</b>	<b>106</b>	<b>110</b>	<b>60</b>	<b>18</b>	<b>52</b>	<b>0</b>	<b>\$62,524</b>	<b>\$0</b>	<b>\$79,174</b>	





Marina Coast Water District  
Agenda Transmittal

Agenda Item: 12-C

Meeting Date: January 29, 2020

Prepared By: Don Wilcox  
Reviewed By: Michael Wegley

Approved By: Keith Van Der Maaten

Agenda Title: Consider Adoption of Resolution No. 2020-03 to Reject All Bids on the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase and Director Staff to Rebid the Project

Staff Recommendation: The Board of Directors is requested to adopt Resolution No. 2020-03 to:

1. Reject all bids for the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase; and,
2. Direct staff to rebid the project.

Background: *5-Year Strategic Plan, Mission Statement – To provide our customers with high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.*

On December 17, 2019, District staff conducted a sealed bid opening for the “Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase” (CIP RW-0174). This next phase of the RUWAP is to construct recycled water distribution pipelines to take water from the RUWAP transmission main to various recycled water irrigation systems already constructed within the District. A Bid Protest Letter was received from one of the bidders 2 days after the bid opening.

Discussion/Analysis: A formal invitation to bidders was advertised in The Monterey County Herald, The Californian, the District’s website, and the Central Coast Builder’s Exchange. A mandatory Pre-Bid Conference was held on October 30, 2019, and a formal bid opening was held on Tuesday December 17, 2019 for the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase. The District received nine bids for the project (tabulated below):

<b>BIDDER</b>	<b>BASE BID*</b>	<b>ALT "A"</b>	<b>TTL BID</b>
<i>ENGINEER'S ESTIMATE</i>	<i>\$7,000,000</i>	<i>\$600,000</i>	<i>\$7,600,000</i>
Anderson Pacific Engineering	\$6,223,405	\$523,000	\$6,746,405
MPE	\$6,946,390	\$1,000,000	\$7,946,390
Teichert Energy	\$7,853,024	\$475,000	\$8,328,024
Granite Rock	\$8,530,795	\$591,000	\$9,121,795
Garney Pacific	\$8,960,080	\$489,000	\$9,449,080
Ranger Pipelines	\$9,035,743	\$956,725	\$9,992,468
Mountain Cascade	\$10,896,972	\$1,586,000	\$12,482,972



January 29, 2020

Resolution No. 2020-03  
Resolution of the Board of Directors  
Marina Coast Water District  
Authorizing the Rejection of All Bids for the  
Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase  
And Direct Staff to Rebid the Project

RESOLVED by the Board of Directors (“Directors”) of the Marina Coast Water District (“District”), at a regular meeting duly called and held on January 29, 2020, at 211 Hillcrest Avenue, Marina, California as follows:

WHEREAS, the District Capital Improvement Program includes the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase (RW-0174), to construct recycled water distribution pipelines to take water from the RUWAP transmission main to various recycled water irrigation systems already constructed within the District; and,

WHEREAS, the District formally advertised for and received a total of nine sealed bids for the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase; and,

WHEREAS, the District received a formal Bid Protest on the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase; and,

WHEREAS, District staff consulted with District counsel regarding the Bid Protest on the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase; and,

WHEREAS, staff recommends rejecting all bids for the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Marina Coast Water District does hereby reject all bids for the Regional Urban Water Augmentation Project - Recycled Water Distribution Pipelines Phase and directs staff to rebid the project.

PASSED AND ADOPTED on January 29, 2020, by the Board of Directors of the Marina Coast Water District by the following roll call vote:

Ayes: Directors \_\_\_\_\_

Noes: Directors \_\_\_\_\_

Absent: Directors \_\_\_\_\_

Abstained: Directors \_\_\_\_\_

\_\_\_\_\_  
Thomas P. Moore, President

ATTEST:

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

CERTIFICATE OF SECRETARY

The undersigned Secretary of the Board of the Marina Coast Water District hereby certifies that the foregoing is a full, true and correct copy of Resolution No. 2020-03 adopted January 29, 2020.

\_\_\_\_\_  
Keith Van Der Maaten, Secretary



## Teichert Energy & Utilities Group, Inc.

December 19<sup>th</sup>, 2019

Stephenie Verduzco  
Marina Coast Water District  
2840 4<sup>th</sup> Avenue  
Marina, CA 93933

**Subject: Contract No. CIP #RW-0174**  
**Project: Regional Urban Water Augmentation Project Recycled Water Distribution**  
**Pipelines**  
**Bids Opened: December 17, 2019**

Dear Ms. Verduzco,

This letter serves as Teichert Energy & Utilities Group, Inc.'s ("Teichert Utilities") bid protest to Anderson Pacific Engineering Construction, Inc. ("Anderson Pacific"), and Monterey Peninsula Engineering ("MPE"), for the above-referenced contract. Teichert Utilities protests Anderson Pacific and MPE bids as non-responsive and directs the Marina Coast Water District to the details set forth below.

I. Anderson Pacific and MPE did not list subcontractor license numbers on the Designation of Subcontractors form 00 45 14.

A. As stated on form 00 45 14, the contractor is to comply with Public Contracting Code 4100 through 4133. Public Contracting Code 4104(a)(1) states that the contractor must set forth in their bid, "The name, the location of the place of business, the California contractor license number, and the public works contractor registration number...". Anderson Pacific and MPE did not list the California contractors license number for any of the subcontractors in their bid documents.

Teichert Utilities respectfully requests that Anderson Pacific and MPE both be deemed non-responsive and the contract should be awarded to Teichert Utilities as the lowest responsive, responsible bidder.

If there is any additional information needed, please contact the undersigned at 916-438-8500.

Sincerely,

Jake Creger  
Regional Manager, Northern California  
JCreger@Teichert.com  
916-438-8500

Roseville Office  
400 Sunrise Ave. Suite 300  
Roseville, CA 95661  
(916) 757-6400  
FAX (916) 757-6499



## Teichert Energy & Utilities Group, Inc.

**Attachments:**

Appendix A – Anderson Pacific and MPE 00 45 14 Forms

**CC:**

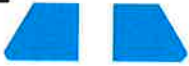
Steven Dooley, Estimator - A. Teichert & Son, Inc.

Jason Theriault, Senior Estimator - A. Teichert & Son, Inc.

Anderson Pacific Engineering Construction, Inc. – 1390 Norman Avenue, Santa Clara, CA 95054 (Hard Copy Mailed)

Monterey Peninsula Engineering. – PO Box 2317, Monterey, CA 93942 (Hard Copy Mailed)

Teichert Energy & Utilities Group, Inc.



**Appendix A – Anderson Pacific and MPE 00 45 14  
Forms**

**DESIGNATION OF SUBCONTRACTORS**


REGIONAL URBAN WATER AUGMENTATION PROJECT  
 RECYCLED WATER DISTRIBUTION PIPELINES

*SUBMIT WITH BID*

In compliance with the provisions of Sections 4100-4113 of the Public Contract Code of the State of California, and any amendments thereof, and, if applicable, with the requirements of County relating to projects for the construction, improvement or repair of Public Works, the undersigned bidder has set forth below the name and location of the place of business of each subcontractor who will perform work or labor or render service to the undersigned in or about the construction of the work, and each subcontractor who, under subcontract, will specially fabricate and install a portion of the work or improvement according to detailed drawings contained in the plans and specifications, for such work to be performed under the Contract Documents to which the attached bid is responsive, and the portion of the work which will be done by each subcontractor and for each subcontract in excess of one half of one percent of the undersigned's total aggregate bid. Trenchless construction and paving subcontractors shall be listed at time of bidding on this form.

Name of Subcontractor	Location (Address, City, Zip, Phone)	Division of Work
FMG	5225 Hellyer Ave #220 San Jose CA 408-573-9364	Pavement & Grading
Chrisp Co	43690 Wsgood Rd Fremont CA 510-656-2340	Striping & Pavement markers
Glyalk Boring Inc	10150 Poplar Fontana CA 909-350-8940	Guided Auger Boring
Redwood Painting Co	620 W. 10th St Pittsburg CA 925-432-4500	Painting & Coating
Bond Black top	PO Box 1016 Union City CA 510-783-9909	Slurry Seal

COMPANY NAME: Anderson Pacific Engineering Construction, Inc.

By:   
 Bidder's Signature

Date: 12/15/19

END OF DOCUMENT



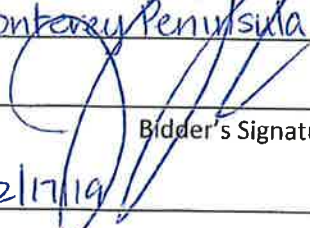
**DESIGNATION OF SUBCONTRACTORS**

**REGIONAL URBAN WATER AUGMENTATION PROJECT  
 RECYCLED WATER DISTRIBUTION PIPELINES**

**SUBMIT WITH BID**

In compliance with the provisions of Sections 4100-4113 of the Public Contract Code of the State of California, and any amendments thereof, and, if applicable, with the requirements of County relating to projects for the construction, improvement or repair of Public Works, the undersigned bidder has set forth below the name and location of the place of business of each subcontractor who will perform work or labor or render service to the undersigned in or about the construction of the work, and each subcontractor who, under subcontract, will specially fabricate and install a portion of the work or improvement according to detailed drawings contained in the plans and specifications, for such work to be performed under the Contract Documents to which the attached bid is responsive, and the portion of the work which will be done by each subcontractor and for each subcontract in excess of one half of one percent of the undersigned's total aggregate bid. Trenchless construction and paving subcontractors shall be listed at time of bidding on this form.

Name of Subcontractor	Location (Address, City, Zip, Phone)	Division of Work
<del>Golden State Boring &amp; Pipe Jacking, Inc</del>	<del>7000 Merrill Ave Bldg 410, CHANDLER, CA 91710 909 930 5811</del>	<del>PULPING P.T</del>
CHRISP COMPANY	43650 OSBORN RD FREMONT, CA 94539 (909) 350-8948	STRIPPING
AYALA BORING INC	10150 POPLAR AVE FONTANA, CA 92335 (510) 783-4909	SEWER BOREING P.T
BOND BLACKTOP	PO BOX 616 UNION CITY, CA 94587	SLURRY

COMPANY NAME: Montezuma Peninsula Engineering  
 By:   
 Bidder's Signature Peter J Tacarina, Manager  
 Date: 12/17/19

END OF DOCUMENT

Marina Coast Water District  
Agenda Transmittal

Agenda Item: 12-D

Meeting Date: January 29, 2020

Prepared By: Don Wilcox  
Reviewed By: Michael Wegley

Approved By: Keith Van Der Maaten

Agenda Title: Consider Adoption of Resolution No. 2020-04 to Approve Amendment No. 7 to the Professional Services Agreement with Carollo Engineers for Design of the Regional Urban Water Augmentation Project Distribution Mains Project

Staff Recommendation: Staff recommends that the Board of Directors adopt Resolution No. 2020-04:

1. Approving Amendment No. 7 to the Professional Services Agreement with Carollo Engineers to add the total dollar amount of \$19,945 for a not-to-exceed contract total amount of \$2,314,340 for additional services necessary to rebid the Regional Urban Water Augmentation Project (RUWAP) distribution mains; and,
2. Authorize the General Manager to take all actions and execute all documents as may be necessary or appropriate to give effect to this resolution.

Background: *5-Year Strategic Plan Mission Statement – To provide our customers with high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.*

On May 11, 2010, the Board awarded Carollo Engineers a contract under Resolution No. 2010-26 for Final Design and Bidding Services for Recycled Water Pipelines, the Blackhorse Reservoir and On-Call Services for the Regional Urban Water Augmentation Project (RUWAP). The contract was amended by the Board as the various phases of the large RUWAP projects were completed. Due to the need to rebid the RUWAP Distribution Mains project, this amendment includes the following tasks:

- Revise and re-issue stamped and signed electronic (PDF) bid drawings and specifications
- Prepare for, attend and present at one pre-bid meeting
- Respond to Bidder questions, prepare addenda to bid documents (1 assumed) and assist in evaluating bids (if requested)
- Project Management (anticipated January through April)

Discussion and Analysis: Carollo Engineers has provided engineering throughout the planning, design and construction of the RUWAP projects and have provided excellent support since the project's beginning. MCWD staff have reviewed Carollo's scope and schedule for the work described in Amendment 7 and find the fees for the anticipated time and materials to be reasonable. The amendment with scope of services and cost proposal breakdown is included as Attachment A to the Resolution.

Staff is recommending that the Board adopt Resolution No. 2020-04 to amend the Carollo Engineers Professional Service Agreement as described above.

Environmental Review Compliance: The MCWD Environmental Impact Report establishing Mitigation Monitoring and Environmental Compliance for the RUWAP Projects meets both the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) requirements.

Financial Impact:  Yes  No Funding Source/Recap: Funding for this project comes from the FORA contribution to RUWAP and the Water Resources Control Board State Revolving Fund loan proceeds.

Other Considerations: The Board may desire to consider other alternatives to adopting the motion as recommended by staff including:

1. Modifying or conditioning the action; or,
2. Direct further staff work; or,
3. Deny the action.

Material Included for Information/Consideration: Resolution No. 2020-04; and, Scope of Work.

Action Required:  Resolution  Motion  Review  
(Roll call vote is required.)

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Board Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_ Abstained \_\_\_\_\_

Noes \_\_\_\_\_ Absent \_\_\_\_\_

January 29, 2020

Resolution No. 2020-04  
Resolution of the Board of Directors  
Marina Coast Water District  
Approving Amendment No. 7 to the Professional Services Agreement with Carollo Engineers  
for Regional Urban Water Augmentation Project Distribution Mains  
Design and Bidding Services

RESOLVED by the Board of Directors (“Directors”) of the Marina Coast Water District (“District”), at a regular meeting duly called and held on January 29, 2020, at 211 Hillcrest Avenue, Marina, California as follows:

WHEREAS, on May 11, 2010, the District Board of Directors awarded Carollo Engineers a contract under Resolution No. 2010-26 for Final Design and Bidding Services for Recycled Water Pipelines, the Blackhorse Reservoir and On-Call Services for the Regional Urban Water Augmentation Project (RUWAP); and,

WHEREAS, Carollo Engineers has provided engineering throughout the planning, design and construction of the RUWAP projects and have provided excellent support since the project’s beginning; and,

WHEREAS, the Carollo contract has been amended by the Board as the various phases of the large RUWAP projects have been completed; and,

WHEREAS, additional work is needed for the distribution mains project to rebid the project; and,

WHEREAS, Carollo Engineers has submitted a scope and fee estimate proposal for the total not-to-exceed dollar amount of \$19,945 for On-Call Services for the Regional Urban Water Augmentation Project (RUWAP), and staff agrees that the proposal is reasonable; and,

WHEREAS, staff is recommending that the Board amend the Carollo Engineers Professional Service Agreement to cover this additional work.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Marina Coast Water District:

1. Approves Attachment A - Amendment No. 7 to the Professional Services Agreement with Carollo Engineers, P.C., for engineering services during construction of the RUWAP Distribution Mains, for the total dollar amount not-to-exceed \$19,945; and,
2. Authorizes the General Manager to take all actions and execute all documents as may be necessary or appropriate to give effect to this resolution; and,

PASSED AND ADOPTED on January 29, 2020, by the Board of Directors of the Marina Coast Water District by the following roll call vote:

Ayes: Directors \_\_\_\_\_

Noes: Directors \_\_\_\_\_

Absent: Directors \_\_\_\_\_

Abstained: Directors \_\_\_\_\_

\_\_\_\_\_  
Thomas P Moore, President

ATTEST:

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

CERTIFICATE OF SECRETARY

The undersigned Secretary of the Board of the Marina Coast Water District hereby certifies that the foregoing is a full, true and correct copy of Resolution No. 2020-04 adopted January 29, 2020.

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

## **ATTACHMENT A**

Carollo Engineers  
Scope of Work and Fee Estimate  
For Amendment 7

January 17, 2020

Mr. Donald Wilcox, PE  
Senior Engineer  
Marina Coast Water District  
2840 4th Avenue  
Marina, CA 93933

Subject: Proposal for Engineering Services to Re-Issue RUWAP Distribution Mains Bid Package and Provide Bid Period Services

Dear Mr. Wilcox:

As requested by the Marina Coast Water District (District), below is a proposal to provide technical engineering services to re-bid the RUWAP Distribution Mains Project. Services include revising and re-issuing the bid package and providing bid period engineering services:

### Background

On December 17, 2019 RUWAP Distribution Main (Project) construction contract bids were publically opened. On December 19, 2019 a bid protest was received from the third lowest bidder contending all bidders, except for the third lowest bidder, are not responsive because all other bidders did not list a subcontractor license number on their subcontractor form, which is a recently added requirement to the Public Contract Code. The District's standard front end specification did not specify listing subcontractor license numbers. District staff are recommending rejecting all bids and re-bidding the project. This proposal provides technical services to support re-bidding the Project.

### Scope of Work

To support the re-bidding effort, the scope of services includes:

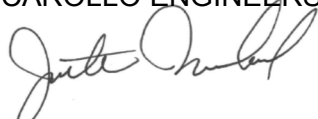
- Revise and re-issue stamped and signed electronic (PDF) bid drawings and specifications
- Prepare for, attend, and present at one pre-bid meeting
- Respond to Bidder questions, prepare addenda to bid documents (1 assumed), and assist in evaluating bids (if requested)
- Project Management (anticipated January through April)

### Budget

The estimated budget for this work is \$19,945; attached is a detailed summary. No new survey, geotechnical, utility locating, or new specifications are anticipated.

Please contact me at 925-977-3057 if you have any questions or would like to discuss.

Sincerely,  
CAROLLO ENGINEERS, Inc.



Jonathon P. Marshall, P.E.  
Project Manager

**Marina Coast Water District - Proposal for Engineering Services to Re-Bid RUWAP Distribution Mains**  
**Fee Estimate**

Task	Description	Carollo						Sub-Consultants			Other Direct Costs		Totals		
		Principal (QC)	PM / PE	Staff Engineer	CADD Tech	Document Processing	Subtotals		PECE	none	Subtotals	Markup		Misc. Costs and Printing	Travel
		\$285	\$265	\$175	\$188	\$118	Hours	Budget	\$11.70			10%			
1	Engineering Services to Re-Bid	2	20	40	24	12	98	\$ 18,798	\$ 1,147	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,945
<b>Totals</b>		<b>\$ 570</b>	<b>\$ 5,300</b>	<b>\$ 7,000</b>	<b>\$ 4,512</b>	<b>\$ 1,416</b>	<b>98</b>	<b>\$ 18,798</b>	<b>\$ 1,147</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 19,945</b>



Marina Coast Water District  
Staff Report

Agenda Item: 12-E

Meeting Date: January 29, 2020

Prepared By: Rose Gill

Approved By: Keith Van Der Maaten

Agenda Title: Consider Approving the 2019 Year in Review Report

Staff Recommendation: The Board of Directors approve the 2019 Year in Review Report.

Background: *5-Year Strategic Plan Mission Statement – To provide our customers with high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.*

Staff has finalized the draft 2019 Year in Review Report highlighting the progress we made during the last year. Once approved, the report will then be available on the District's website and distributed through our social media channels. Staff is not moving ahead at this time with printing any hard copies, as was done in previous years.

Discussion/Analysis: Staff produced the report inhouse, versus using a consulting firm. It is more cost effective to bring the report inhouse, using staff knowledge and time to produce.

Environmental Review Compliance: None required.

Financial Impact: \_\_\_\_\_Yes      X  No    Funding Source/Recap: None.

Other Considerations: None.

Material Included for Information/Consideration: 2019 Year in Review Report.

Action Required: \_\_\_\_\_Resolution      X  Motion    \_\_\_\_\_Review

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Board Action

Motion By \_\_\_\_\_    Seconded By \_\_\_\_\_    No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_    Abstained \_\_\_\_\_

Noes \_\_\_\_\_    Absent \_\_\_\_\_

# Marina Coast Water District 2019 Year in Review

## Our Mission

The Marina Coast Water District provides our customers with high quality water, wastewater collection and conservation services that are safe, affordable, reliable and sustainable, through planning, management and the development of water resources in an environmentally sensitive manner.

## Our Values

- Customer Service
- Integrity
- Teamwork
- Innovation
- Transparency



## Content

- Message from the General Manager
- Water Resources
- Infrastructure
- Fiscal Planning
- Strategic Partners and Public Affairs
- Organizational Health & Personnel
- Administration Management
- Leadership



## **Securing Our Water Supply**

MCWD is dedicated to providing clean drinking water to the 33,000 residents in our service area now and well into the future. Currently, our sole source of water comes from the Salinas Valley Groundwater Basin which supplies many other communities beyond our service area. In order to meet future demands, MCWD is already working to maximize how we use our existing supplies, researching potential new sources, encouraging conservation and investing in infrastructure to deliver advanced recycled water. As we work to balance future needs with supply, conservation and new sources, we must be ever vigilant to guard against environmental impacts such as saltwater intrusion into fragile groundwater basins.



## Message from the General Manager



### **Ord Annexation and New Challenges Ahead**

In the history of Marina Coast Water District, one could look back at Oct 24, 2001 as maybe the most inconspicuous defining day for the District, one that put into place many significant stories that continue to unfold today. It was on that day that MCWD was deeded all of the Former Fort Ord water and wastewater systems, making official that MCWD would be the water and wastewater service provider for the redevelopment of the former Fort Ord, a decision that was originally put into place by the 1998 Facilities Agreement between FORA and MCWD.

That decision to be the water service provider for the redevelopment of Fort Ord eventually led to the approval of the Regional Urban Water Augmentation Program (RUWAP) in 2006, a hybrid project to develop both recycled water and an ocean desal plant to meet the ultimate needs of Fort Ord. The ocean desal plant portion of the RUWAP eventually became the “Regional Desalination Project”, a partnership with Cal Am, Marina Coast, and the County Water Resources Agency that fell apart in 2011 resulting in years of mired litigation (yes, we are still in litigation). But the recycled water portion of the RUWAP became a separate, collaborative, project between M1W and Marina Coast that has allowed both agencies to move forward on important water supply projects with construction nearing completion following a lot of hard work over the past couple years. While the apparent ending to the story from the recycled water and desal project are very different, it is clear that both have monumentally changed the District. As a result of these two, the District has grown through challenge and is now defined by the one common thread between the two stories: MCWD must be and will be a part of providing solutions to the regions water supply challenges.

Equal to the challenges of building the “RUWAP” augmented water supply to meet Fort Ord, on Oct 24, 2001, MCWD was given the groundwater rights to serve Ord, and with it, the responsibility to protect those groundwater supplies. In 2016, the District formed a Groundwater Sustainability Agency to do exactly that and began actively increasing its understanding of the basin. Over the last few years, MCWD has had to fight to protect our groundwater supply while simultaneously advocating for alternate solutions, especially in light of the proposed Cal Am “desal” project that is targeting to pump a massive amount of groundwater right in our own backyard. While this new, additional, chapter in the Regional Desalination Project story unfolds before us, the District once again has needed to change and grow to meet the challenge. With our new official title as a state recognized “Groundwater Sustainability Agency” MCWD has been defined as an indispensable agency in the protection of the Salinas Valley Groundwater Basin.

For nearly 18 years now, the District has been growing and changing as a result of that fateful day in Oct 2001 when we officially became the provider for Fort Ord. This past summer, as a result of many years of work, MCWD officially annexed the Ord Community into the District. Residents of Ord are now able to both vote for and run for the Board for the first time ever. As much as the last 18 years have defined much of our character and who we are today, the annexation of the Ord Community presents a new challenge, a new story line, and possibly new board members from new areas of the District that will change how we are defined in the years to come. Undoubtedly, we are, and have been, more than just the “Marina” Coast Water District for many years. With this annexation, we can now officially move as one, both Ord and Marina, as one story that is yet to be written, but I’m certain the next 18 years will be just as interesting as the last 18, and we will be ready for whatever comes our way.

## 01: Water Sources

2

In 2019 the Water Resources Department which includes Conservation continued its efforts which are highlighted below:

Worked closely with the Salinas Valley Groundwater Sustainability Agency (SVBGSA) in compiling a Groundwater Sustainability Plan for the 180/400 Foot Aquifer. The Marina Coast Water District Groundwater Sustainability Agency overlies a portion of the 180/400 Foot aquifer in the northernmost portion of the MCWD Service area. Water Resources worked with the SVBGSA Staff and Consultants in development of the 11 Chapter, 50 year plan to reach sustainability within 20 years and to maintain sustainability for another 30 years.

Conservation continued its customer service focus; conducting over a hundred Water Conservation Certification visits, high water use investigations, and continued counsel and assistance with large landscape management while continuing to seamlessly manage all Water Conservation Incentive programs. Specific Water Conservation Highlights include:

- New, revised High Efficiency Toilet (HET) and Ultra High Efficiency Toilet (UHET) and urinal rebates approved
- Record year for support of large scale HET and UHET toilet, showerhead and faucet aerator retrofits:
  - o CSUMB Frederick Park II, 120 apartments
  - o Army Housing, Fitch Park Phase A, 213 homes
  - o City Of Marina Housing, Abrams Park, 194 apartments
  - o Owen Ave (Marina) Multifamily Complex, 110 toilets
- Improved score on 2018 Water Loss Audit (conducted in 2019)
- Successful large meter testing project completed in November 2019

-Water Conservation Commission (WCC) reorganization and reconstitution. The WCC was reorganized in late 2018 into 2019 and made a lot of progress. The commission reviewed and recommended changes to the various Water Conservation Incentive programs, recommended changes to the Conservation Ordinances, and began formulating recommendations on future water conserving programs.

In 2020 Water Resources will turn to the development of the Monterey Sub basin Groundwater Sustainability Planning process and continue to develop programs and projects that ensure the continued reliable safe delivery of water to the District's customers while simultaneously developing plans to augment, protect, and sustain the sources of water necessary to meet our customers needs.

## 02: Infrastructure

2019 was a big year for the MCWD: improvements were made to our infrastructure and system, making things safer, and more reliable. Several lift stations were rehabilitated in house by the Operations and Maintenance staff with new pumps, piping and motor control centers to provide a more reliable sewer system. Updates were made to our SCADA platform system which allowed for real-time notifications and monitoring of all wells and lift stations. Reservoir 2 underwent a recoating of the interior surface and new motors and PLC programs were installed to provide more redundancy to the system and reduce the use of pumping from the groundwater wells during PG&E peak hours. The Operations and Maintenance Department hired 5 new System Operators and celebrated 6 crew members who earned higher certifications in water and wastewater. The Electrical/Mechanical Field Supervisor, and Operations and Maintenance Supervisor were promoted from within, and a System Operator for the department, received his 40-year anniversary with the District.

Towards the end of 2019, the District began immediate design, procurement, and installation of 7 permanent generator sets for the water and wastewater systems to keep sites online, even in times of extended power outages as part of the PG&E Public Safety Shutoff Program.

Lastly, MCWD's laboratory performed special sampling for PFOA, PFAS, and TCP-123, as well as for triennial lead and copper testing to ensure safe drinking water for our customers.



### Engineering Department

Three new engineers joined the engineering department this year and one left for a net gain of 2 engineers. The new engineers are Don Wilcox - Senior Engineer, Elise Ramirez – Associated Engineer, and Alec Irwin – Engineering Technician.

Two major accomplishments for engineering were:

- Municipal Service Review and Annexation of the Ord Community Service Area
- Construction Completion of the Regional Urban Water Augmentation Project (RUWAP) conveyance pipeline and reservoir

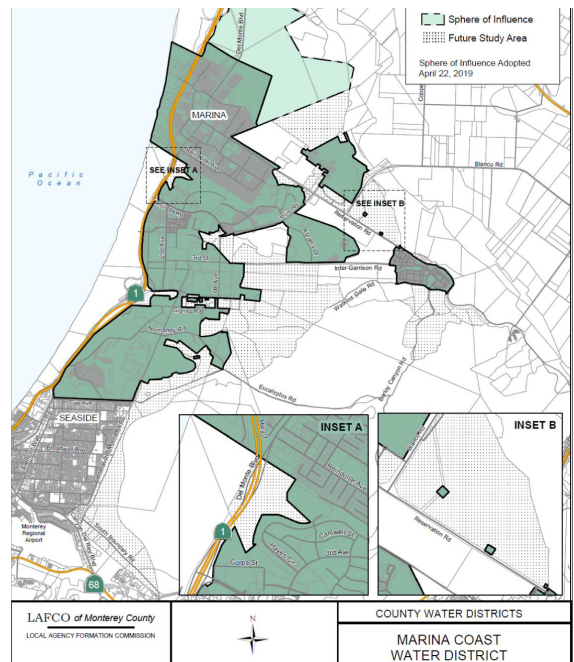
The Municipal Service Review (MSR) provided a comprehensive assessment of the ability of MCWD to effectively and efficiently provide water and wastewater services to residents and other users. The MSR was prepared by LAFCO in response to the District’s annexation application.

With favorable findings and conclusions of the MSR, LAFCO approved annexation of properties already served by MCWD or fully approved for development. This increased the District area from 3,116 acres to 8,023 acres. The annexation was completed in July 2019.

Construction of the RUWAP conveyance pipeline was substantially completed in January 2019 and the reservoir construction was completed in July 2019.

The capital construction cost for the 40,000 LF 24” diameter pipeline and 2 MG Reservoir was \$23.64 M. Monterey 1 Water is close to producing advance treated water as completion of their treatment facilities leads to startup testing and production for delivery through the RUWAP conveyance facilities to the groundwater recharge wells in Seaside. Design of the RUWAP distribution mains was completed and advertised for bid with construction taking place in 2021.

Design commenced on the A1 & A2 Reservoirs and B/C Booster Pump Station Project this year. The reservoirs are critical to the fire protection water supply for the City of Marina. Other notable capital improvement projects in various stages of design and construction include the Imjin Lift Station, Ord Village Lift Station and Force Main, Imjin Parkway Water Main and Recycled Water Main, and Inter-Garrison Road Water Main.



Development was brisk with three major developments, The Dunes, Sea Haven and East Garrison producing upwards of 300 homes for the year. The District received ownership of the Dunes Phase 1B infrastructure and East Garrison 3 infrastructure. Central Marina infill development was active with residential additions, apartment buildings and new businesses bringing in project reviews and inspections.

Proposed new capacity fees based on new Sewer, Water and Recycled Water Master Plans wound their way through stakeholder meetings and the Fort Ord Reuse Authority (FORA) Water and Wastewater Oversight Committee (WWOC), and are nearing completion for adoption of new fees by July 1, 2020.

### 03: Fiscal Planning

The Finance Department was awarded the Certificate of Achievement for Excellence in Financial Reporting for the District's Comprehensive Annual Financial Report (CAFR) for FY 2017-2018 from the Government Finance Officer's Association (GFOA). This marks the eleventh straight year that the District has earned this award.

### 04: Strategic Partners and Public Affairs

- Made presentations to the California Coastal Commission, Central Coast Regional Water Quality Control Board, State Water Resources Control Board, State Lands Commission, the Governor's office, and Lt. Governor's office in an ongoing effort to promote collaborative solutions to water supply challenges for the entire Monterey Bay Region.
- Coordinated with the SVBGSA to complete the GSP for the 180/400 Subbasin
- Coordinated with MIW to jointly complete the District's Regional Urban Water Augmentation Project and MIW's Pure Water Monterey Project
- Continue to work with CSUMB on developing an agreement to improve long term coordination between MCWD and CSUMB on master planning, development projects, service, and operations
- Working with the City of Seaside on their In-Lieu Water Storage project and long-term water supply needs for the Golf Course and proposed developments
- Working with the City of Marina, Del Rey Oaks, Seaside, Monterey, and the County of Monterey to make arrangements for FORA closing in 2020 and to secure long-term service to these jurisdictions within the Former Fort Ord in accordance with the Base Reuse Plan
- Working with citizen groups "Citizens for Just Water" and "Public Water Now" to support efforts that promote water supply sustainability, affordability, transparency, and collaborative solutions to water supply challenges for the entire Monterey Bay Region

### 06: Administration Management

The Information and Technology (IT) Department concentrated its efforts in IT infrastructure security through the migration to new network security devices that provide both intrusion detection and intrusion prevention to the District's network. In addition, the IT Department fully migrated endpoint (local computer) security to a centrally managed system.

During FY 2018-2019, the Customer Service Department diligently worked at being more green and reducing the need for paper by using electronic reports to process billing and by attaching customer related documents to their accounts within the utility billing system. This not only saves paper, but also provides efficiency in addressing customer inquiries.

### 05: Organizational Health & Personnel

2019 was an eventful year! MCWD welcomed 12 new hires during the year. We also celebrated long term employee anniversaries: Thomas Barkhurst 20 years; Kurt Gonzalez 10 years; Tony Kelsey 40; Susan Kiefert 35 years; Barbara Montanti 20 years.

We updated our Employee Handbook to make sure we are up to date, and compliant with state and federal laws.

## LEADERSHIP

MCWD is governed by a five-member Board of Directors elected by the voters to serve four-year terms. The following is the 2019 Board of Directors and MCWD management team:

### 2019 Board of Directors

Dr. Thomas P. Moore  
President

Jan Shriner  
Vice-President

Herbert Cortez  
Director

Peter Le  
Director

Matt Zefferman  
Director

### MCWD Management Team

Keith Van Der Maaten  
General Manager

Patrick Breen  
Water Resources Manager

Kelly Cadiente  
Director of Administrative Services

Derek Cray  
Operations and Maintenance  
Manager

Rose Gill  
HR/Risk Administrator

Mike Wegley  
District Engineer

### Administration and Customer Service

11 Reservation Road  
Marina, CA 93933  
(831) 384-6131 - (831) 883-5995 (fax)  
Hours: Monday—Friday, 8 a.m. to 5:30 p.m.

### Engineering, Operations & Maintenance

2840 4th Avenue  
Marina, CA 93933  
(831) 384-6131  
Hours: Monday—Friday, 8 a.m. to 5:00 p.m.

Marina Coast Water District  
Staff Report

Agenda Item: 12-F

Meeting date: January 29, 2020

Prepared by: Rose Gill

Approved by: Keith Van Der Maaten

Agenda Title: Consider Adoption of Resolution No. 2020-05 to Approve Updates to the 5-Year Strategic Plan

Staff Recommendation: The Board of Directors approve updates to the 5-Year Strategic Plan.

Background: *5-Year Strategic Plan, Objective 6.8 - Update Strategic Plan*

Staff and Board periodically update the Plan and in September 2017, the Board approved the latest and current 5-Year Plan. On March 18, 2019, there was a Board workshop for the Board to review and provide input on staff's recommended changes to the Strategic Plan.

Following the Board workshop in March, and in preparation for having Board discussions on District priorities, staff thoroughly reviewed the Strategic Plan and found that it was not constructed in a way that facilitated setting priorities. The existing Strategic Plan needed more information on the specific actions that are being taken to implement the Strategic Plan Objectives.

In August 2019, staff provided an update to the Strategic plan which included a "Strategic Action Plan", as well as streamlined much of the information in the Strategic Plan, to assist in discussing and setting priorities. The Board provided input on priorities and specifically asked for more work on Core Values and to bring back once it was updated.

Discussion/Analysis: Staff has completed incorporating comments from the Board and are presenting a final version for approval. It is expected that MCWD will hold a Strategic Plan Workshop in March or April 2020 to set new goals.

Environmental Review Compliance: None required.

Financial Impact: \_\_\_\_\_ Yes  No Funding Source/Recap: None.

Other Considerations: None.

Material Included for Information/Consideration: Resolution No. 2020-05; and updated 5-Year Strategic Plan (redlined version).

Action Required:  Resolution \_\_\_\_\_ Motion \_\_\_\_\_ Review \_\_\_\_\_  
(Roll call vote is required.)

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Board Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_ Abstained \_\_\_\_\_

Noes \_\_\_\_\_ Absent \_\_\_\_\_



January 29, 2020

Resolution No. 2020-05  
Resolution of the Board of Directors  
Marina Coast Water District  
Approving Updates to the 5-Year Strategic Plan

RESOLVED by the Board of Directors ("Directors") of the Marina Coast Water District ("District"), at a regular meeting duly called and held on January 29, 2020, at 211 Reservation Road, Marina, California as follows:

WHEREAS, the District believes that the development of specific goals and objectives is vital to planning for our future water supply, infrastructure, fiscal planning, and organizational health and personnel, and.

WHEREAS, the last strategic plan was approved September 18, 2017 with significant updates provided at a March 18, 2019 workshop and at the August 19, 2019 Board meeting; and,

WHEREAS, staff incorporated the Board's comments into the updated 5-Year Strategic Plan.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Marina Coast Water District does hereby approve updates to the 5-Year Strategic Plan.

PASSED AND ADOPTED on January 29, 2020, by the Board of Directors of the Marina Coast Water District by the following roll call vote:

Ayes: Directors \_\_\_\_\_  
Noes: Directors \_\_\_\_\_  
Absent: Directors \_\_\_\_\_  
Abstained: Directors \_\_\_\_\_

\_\_\_\_\_  
Thomas P. Moore, President

ATTEST:

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

CERTIFICATE OF SECRETARY

The undersigned Secretary of the Board of the Marina Coast Water District hereby certifies that the foregoing is a full, true and correct copy of Resolution No. 2020-05 adopted January 29, 2020.

\_\_\_\_\_  
Keith Van Der Maaten, Secretary

DRAFT

*We provide our customers with high quality water, wastewater collection and conservation services that are safe, affordable, reliable and sustainable, through planning, management and the development of water resources in an environmentally sensitive manner.*

# Marina Coast Water District Strategic Plan

~~August 19, 2019~~ January 29,  
2020

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## Mission Statement

We provide our customers with high quality water, wastewater collection and conservation services that are safe, affordable, reliable and sustainable, through planning, management and the development of water resources in an environmentally sensitive manner.

## Vision Statements

In 5 years, we would like to be able to say...

- We have Board policies and procedures with the aim to receive a California Special District Association's (CSDA) "District of Distinction" Award.
- ~~We have annexed the ORD Ord community while preserving the separate cost center concept and have taken all remaining actions to conclude FORA's involvement in the water and wastewater management for the Former Fort Ord.~~
- We have an engaged, reliable and productive workforce that is robust and enjoys high morale with low turnover.
- We are ~~are looking toward to the future as~~ leaders in the region in water quality, communications, water resources, conservation and workforce development.
- We enjoy a positive reputation with the Public and other governmental agencies.
- We have evaluated and have taken steps to fund, all real and likely District liabilities, infrastructure needs, water supply augmentation needs, and necessary groundwater sustainability plan projects and actions.
- We are managing our existing assets through a capital improvement program and through a maintenance management plan that optimizes useful life, minimized operational issues, and maximizes the value of our assets.
- Our office buildings are professional and sufficiently sized to support a productive staff and we now have our own Board room that is sufficiently sized and properly outfitted for the District to conduct effective public meetings.
- Our District facilities are models of energy efficiency (limit carbon emissions), are well taken care of, and support the Districts' "Green" policies.
- We have adequate reserves for repair and replacement of our infrastructure.
- We have adopted a new rate study, Master Plans, and Capacity Fees.
- We have a formal workforce development and succession plan in place.
- We have a Water Conservation Commission that focuses on providing input to the Board of Directors on matters pertaining to the preservation of the District's water resource through conservation, technological improvements and policy.
- We have a strong and robust water conservation programs, meeting State mandates.
- We have taken steps to protect the Salinas Valley groundwater basin from seawater intrusion, have an approved Groundwater Sustainability Plan, and have implemented projects and actions to secure a long term sustainable water supply.
- We have eEnhanced our Public Relations efforts in community outreach.
- We have established key performance indicators and level of service targets.

## Core Values

- **Customer Service:** We will demonstrate outstanding customer service and respect for customers and one another.
- **Integrity:** We will provide our services in an honest, ethical and responsible manner.
- **Teamwork:** We will work together to share and achieve resources for a common goal and collaborate with one another.
- **Innovation:** We will share ideas and apply them to the District in order to further satisfy the needs and expectations of the customers.
- **Transparency:** We listen to our customers and communicate openly about our policies, processes, and plans for the future.

~~We are fiercely dedicated to the following core values and, the Board of Directors, will use them as decision filters. Primarily, we will examine if what we do is effective and cost efficient while ensuring it helps us in the long term.~~

~~Our values will support our commitment to maintenance of our infrastructure to protect the ratepayers of today and in the future as well as support our commitment to reliability in the services we provide.~~

~~Our purpose is responsive, open and clear communication to our customers while maintaining environmentally and sustainable water quality and wastewater collections. We will support local control, good governance and promote accountability will considering all options and assure that we are proactive.~~

~~Finally, we will provide our employees a safe, supportive and collaborative work environment, job satisfaction, competitive wages and career opportunities.~~

## Board of Directors

Thomas P. Moore, President

Jan Shriner, Vice President

Herbert Cortez, Director

Peter Le, Director

Matt Zefferman, Director

## District Management

Keith Van Der Maaten, General Manager

Michael Wegley, District Engineer

Rose Gill, Human Resources/Risk Administrator

Derek Cray, Operations and Maintenance Manager  
Kelly Cadiente, Director of Administrative Services  
Patrick Breen, Water Resources Manager

## Strategic Elements

Strategic Elements represent the vital areas of the District's operation and management. They assure that the implementation of work to be performed in support of the Mission and Vision are comprehensive in nature and properly cover the District in all areas. Strategic elements are derived from the foundational Mission and Vision statements of the District. They are linked to action and results through the Strategic Goals written in each area and the Strategic Work Action Plan. Within the five-year period covered by this Strategic Plan, these Elements assure that all aspects of District operations are well supported and moving forward in a way that reflects Board priorities and creates balanced implementation. The Strategic Work Action Plan that contains the supportive actions ~~and initiatives organized and prioritized by year within the planning period,~~ is presented along with each Strategic Goal within this Strategic Plan, and is also consolidated in tabular form in Table 1 Strategic Plan "At a Glance" (pgs. 28-30). Business Plans and Employee Goals are not a part of the Strategic Plan; these are developed on a one to two-year timeframe with tasks and are handled within the management structure of the District. The Strategic Elements are as follows:

- 1.0 Water Sources**
- 2.0 Infrastructure**
- 3.0 Fiscal Planning**
- 4.0 Strategic Partners and Public Affairs**
- 5.0 Organizational Health/Personnel**
- 6.0 Administrative Management**

### 1.0 Water Sources

Our objective is to manage and protect our current water source (groundwater) and find alternative water sources. We will secure and protect our developed potable water sources sufficiently to supply current and future customers. Our water sources strategy is to work with local land use jurisdictions to determine what their ultimate and interim projected demands will be and explore alternative water sources such as desalination, surface water treatment and recycled water, to find the most efficient, and to secure cost effective water source portfolio. The following is a summary of the 5-Year strategic goals for this strategic element:

- 1.1 Work with local land use jurisdictions to clearly establish and determine current and future water use.
- 1.2 Establish the difference between available groundwater and ultimate water demands.

- 1.3 Determine the growth rate or timeline of when additional water sources will be needed.
- 1.4 Establish a prioritized list of available alternative water sources.
- 1.5 Develop an alternative water sources work plan that will carry us from inception to development.
- 1.6 Establish goals and objectives that promote protecting our current groundwater sources from seawater intrusion and other forms of contamination.
- 1.7 Review and update our water conservation program.

## **2.0 Infrastructure**

Our objective is to provide a high-quality water distribution system and an efficiently operating wastewater collection system to serve existing and future customers. Through the master planning process, our infrastructure strategy is to carefully maintain our existing systems and ensure future additions and replacements will meet District standards. The following is a summary of the 5-Year strategic goals for this strategic element:

- 2.1 Improvements and expansion plans for existing water delivery and wastewater collection systems.
- 2.2 Develop an office/corporation yard Facilities Master Plan.
- 2.3 Develop and implement an Asset Management Plan.
- 2.4 Continue the development of the District's Geographic Information System.
- 2.5 Continue the development of the District's Computer Maintenance Management System (CMMS).
- 2.6 Leak audit and detection.

## **3.0 Fiscal Planning**

Our objective is to manage public funds to assure financial stability, prudent rate management and demonstrate responsible stewardship. Our fiscal strategy is to forecast, control and optimize income and expenditures in an open and transparent manner. We will efficiently use our financial resources to assure availability to fund current and future demands. The following is a summary of the 5-Year strategic goals for this strategic element:

- 3.1 Five-year Financial Plan and Rate Study.
- 3.2 Regular financial updates to policymakers and managers.
- 3.3 Best Accounting Practices.
- 3.4 Close and audit financial statements in a timely manner.
- 3.5 Obtain the ~~CAFR~~ Comprehensive Annual Financial Report (CAFR) Certificate of Achievement for Excellence in Financial Reporting Program annually from the Government Finance Officers Association.
- 3.6 Fiscal reserves management for the maintenance/replacement/expansion of the District's infrastructure.

#### **4.0 Strategic Partners and Public Affairs**

Our objective is to build our relationship with the public and local agencies. Our strategy in the areas of strategic partners and public affairs is to communicate in a positive way, including active listening and encouraging open discussions. The following is a summary of the 5-Year strategic goals for this strategic element:

- 4.1 Develop a Strategic Communications Plan and Communicate with the Public.
- 4.2 Develop a Strategic Communications Plan and Communicate with our Strategic Partners.
- 4.3 Adopt a plan for technology use in public affairs.
- 4.4 Establish clear standards for the construction process.

#### **5.0 Organizational Health & Personnel**

Our objective is to recruit and retain a highly qualified, diverse and inspired workforce that delivers the essential services of our mission statement to the public while providing outstanding customer service. Our strategy is to utilize sound policies and personnel practices, offer competitive compensation and benefits, employee tenure recognition, and provide opportunities for training, development, and professional growth while ensuring a safe and secure workplace. The following is a summary of the 5-Year strategic goals for this strategic element:

- 5.1 Recruit and retain high-performing, engaged personnel.
- 5.2 Establish a workforce succession plan.
- 5.3 Develop a knowledge transfer program.
- 5.4 Conduct periodic compensation studies.
- 5.5 Establish and develop an employee professional development plan.
- 5.6 Revise and update our Employee Handbook
- 5.7 Revise employee performance evaluations

#### **6.0 Administrative Management**

Our objective is to create, maintain and implement policies and procedures to ensure sound management of the District. We will also maintain and use appropriate technology to maintain efficiency and redundancy. Our strategy will be to conduct periodic review, refinement and implementation of policies and procedures and ensure that staff has the direction and tools necessary for successful operations throughout the District. The following is a summary of the 5-Year strategic goals for this strategic element:

- 6.1 Annexation of the Ord community.
- 6.2 Routinely review policies and procedures.
- 6.3 Encourage Board development.
- 6.4 Conduct new Board member orientation program.
- 6.5 Digitize District records.
- 6.6 Achieve the CSDA District of Distinction award.



- 6.7 Incorporate appropriate technology into District's daily functions.
- 6.8 Update Strategic Plan Annually.

# Strategic Action Plan by Objective

## 1.0 Water Sources

#	Strategic Objective/Elements	Specific Action(s) to Meet Objective	Status
1.1	Work with local land use jurisdictions to clearly establish and determine current and future water use.	"Post FORA" Service Agreements	In progress
		Water Use and Allocation Reports	In progress
		Routine meetings with MCWD and LUJ staff	Ongoing
1.2, 1.3, 1.4, 1.5, 1.6	(1.2) Establish the difference between available groundwater and ultimate water demands.(1.3) Determine the growth rate or timeline of when additional water sources will be needed. (1.4) Establish a prioritized list of available alternative water sources. (1.5) Develop an alternative water sources work plan that will carry us from conception to development. (1.6) Establish goals and objectives that promote protecting our current groundwater source from seawater intrusion and other forms of contamination.	180/400 Subbasin GS Plan	In progress
		Monterey Subbasin GS Plan	In progress
		Three Party MOU Project	In progress
		Aerial Electromagnetic Survey (AEM) Projects	In progress
		Resolution Agreement(s) on MCWD wastewater Rights	In progress
		Comprehensive Water Supply Investigations (outside of GS Plan)	In progress
		FY 2019-20 Water, Wastewater, and Recycled Water Master Plans	In progress
1.7	Review and update our water conservation program.	Water Conservation Commission (WCC) Improvements	In progress
		Establish Water Resources Division	Complete
		Water Conservation Programs and Funding Plan from the WCC	In progress
		Recommended Ordinances/Resolutions updates from WCC	In progress

## 2.0 Infrastructure

#	Strategic Objective/Elements	Specific Action(s) to Meet Objective	Status
2.1, 2.1.1, 2.1.2	(2.1) Improvements and expansion plans for existing water delivery and wastewater collection systems. (2.1.1) Existing Infrastructure Plan. (2.1.2) Future Infrastructure Plan.	Annual Capital Improvement Program Plan (CIP)	Ongoing
		Backup Generator Project Plan (Emergency)	In progress
		Regional Urban Water Augmentation Project (RUWAP) Plans	In progress
		Seaside/MCWD Storage Agreement	In progress
		CSUMB Service Agreement	In progress
		CSUMB Easements	Complete
		FY 2019-20 Water, Wastewater, and Recycled Water Master Plans	In progress
2.2	Develop an office/corporation yard facilities master plan.	Office Space Plan	Not Started
		Facilities Master Plan	Not Started
2.3	Develop and implement an asset management plan.	Maintenance Management Plan	Ongoing
		Computerized Maintenance Management System (CMMS)/Accounting Asset List Update	Not Started
		Asset Mgmt. Plan Implementation (operations)	Ongoing
		Asset Mgmt. Plan Implementation (engineering)	Ongoing
2.4	Continue the development of District's geographic information system	GIS database and integration enhancement Plan	Not Started
2.5	Continue the development of the CMMS System.	CMMS enhancement Plan	Not Started
		Add Engineering and Development Projects to the CMMS	Not Started
2.6	Leak audit and detection.	Annual Leak Detection Audits	Ongoing
		Water Conservation Commission Plan for Water-Loss reduction solutions	Not Started

### 3.0 Fiscal Planning

#	Strategic Objective/Elements	Specific Action(s) to Meet Objective	Status
3.1	Five-year financial plan and rate study.	Rate Study	Complete
		Master Plan Capacity Fees	In progress
3.2	Regular financial updates to policymakers and managers.	Quarterly Financial Reports to the Board	Ongoing
		Comprehensive Capacity Fee Report	Not Started
		"Non-Developer Paid" Capacity fee Report (Parker Flats, etc.)	In progress
3.3	Best accounting practices.	Procurement Policy	Complete
		Investment Policy	Complete
		Debt Policy	Complete
		Reserve Policy	Complete
3.4	Close and audit financial statements in a timely manner.	Annual Audit	Ongoing
3.5	Obtain the Certificate of Achievement in Financial Reporting annually from the Government Finance Officers Association.	Comprehensive Annual Financial Report (CAFR) Certificate of Achievement for Excellence in Financial Reporting Program Award	Ongoing
3.6	Fiscal reserves management for the maintenance/ replacement/ expansion of the District's infrastructure.	State Revolving Funds (SRF) Financing (grants and loans) for RUWAP	In progress
		Department of Water Resources Grant Funds for Groundwater Sustainability Agency	In progress
		Water Infrastructure Improvements for the Nation (WIIN) Grant Funds	In progress
		State Water Resources Control Board (SWRCB) Injection Project (recycled water) Grant Funds	In progress
		Armstrong Ranch Utilization Plan	Not Started

	Obtain Bond financing for CIP needs	In progress
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#### 4.0 Strategic Partners and Public Affairs

#	Strategic Objective/Elements	Specific Action(s) to Meet Objective	Status
4.1, 4.2	(4.1) Develop a Strategic Communications Plan focused on community outreach (4.2) Develop a Strategic Communications Plan and Communicate with our strategic partners.	Establish Public Outreach Position (or hire firm)	In Progress
		Monterey Peninsula Water Supply Project (MPWSP) Outreach (PWM Expansion Outreach)	In Progress
		Strategic Communications Plan and outreach Update	Not Started
4.2b	Adopt a plan for technology use in public affairs.	Technology Use Plan Update	Not Started
		Social Media Policy	In Progress
4.3	Establish clear standards for the construction process.	Procedures, Guidelines, and Design Requirements Document Update	Not Started

## 5.0 Organization

#	Strategic Objective/Elements	Specific Action(s) to Meet Objective	Status
5.1	Recruit and retain a high performing, engaged workforce.	Hire for Openings as needed	Ongoing
		Employee Contracts	Complete
		Quarterly All Hands Meetings	Ongoing
		Leadership Training Program	In Progress
		Wellness Program	Ongoing
		Employee Newsletters	Ongoing
		Cyber Security Training	Ongoing
		Building Security	Complete
		Internship Program	Ongoing
5.2	Establish a workforce succession plan.	Work Force Succession Plan	In Progress
5.3	Develop a knowledge transfer program.	Cross Training/Shadow Program Plan	Ongoing
5.4	Conduct periodic compensation studies.	Compensation Study	Complete
5.5	Revise and update Employee Handbook	Employee Handbook	Complete
5.6	Establish and develop an employee professional development plan.	Professional Development Plans	In Progress
5.7	Revise employee performance evaluations	Updated Employee Evaluation Forms	In Progress

## 6.0 Administration

#	Strategic Objective/Elements	Specific Action(s) to Meet Objective	Status
6.1	Annexation of the Ord community.	LAFCO approved Annexation	Complete
		Complete FORA transition	In Progress
		Seaside County Sanitation District/South Boundary Road Resolution Proposal	In Progress
		Annexation Outreach	In Progress
6.2	Routinely review policies and procedures	Develop Comprehensive Policy List	Not Started
		Ordinance and Resolution Process Recommendation	Not Started
6.3	Encourage Board development.	Board Development Plan	Not Started
6.4	Conduct new Board member orientation program.	New Board Member Orientation Packet	Ongoing
6.5	Digitize district records.	Document Retention Policy	In Progress
		Laserfiche Scanning Project	In Progress
6.6	Achieve the District of Transparency	Plan to Achieve District of Transparency	Not Started
6.7	Incorporate appropriate technology into the District's daily functions.	Hire IT Administrator to incorporate appropriate technology	Complete
6.8	Update strategic plan annually.	Strategic Plan Update	Ongoing

# APPENDIX



## Description of Plan Elements

A Strategic Plan is a top-level planning document for an organization to set clear direction over all operational aspects of its mission. It serves as a framework for decision making over a five-year period. It is a disciplined effort to produce fundamental decisions that shape what a District plans to accomplish by selecting a rational and balanced course of action. The District's Mission, Core Values, Vision, and the overall structure of this Strategic Plan were developed by the Board in workshop settings. Within the framework of that structure and the business environment, strategies and goals were developed to sustain and improve the District over the next five years. At its highest level, this Strategic Plan seeks to strengthen and build upon opportunities while addressing areas of concern all aimed toward forecasting an optimized future condition.

This plan also identifies actions, activities, and planning efforts that are currently underway which are needed for continued success in operations and management of the District, and provides for periodic reviews and updates.

## Strategic Planning Definitions

Mission Statement: A declaration of the District's purpose, which succinctly describes why the District exists. All activities of the District should be in support of the Mission Statement. The District's Mission statement also reflects the values to which the District Board is dedicated. The Board of Directors adopts the Mission Statement. The Mission Statement is reviewed annually but is intended to be constant over the long term.

Vision Statement: A statement that articulates where the District wants to be over the life of the Strategic Plan. It outlines at the highest level the key changes that must be achieved by the Strategic Plan. The Vision creates and drives strategy and tactics identified elsewhere in the Strategic Plan. The Board of Directors adopts the Vision Statement. The Vision Statement will be reviewed annually and will typically change more frequently than the Mission Statement to reflect the direction the Board wants to take the District over the five-year time horizon of the Strategic Plan.

Core Values: These are the values to which the Board of Directors is fiercely dedicated. They are anchored in community values and are used by the Directors as decision filters for the myriad of decisions in the future.

Strategic Elements: The broad and primary areas of District operations, planning, and management that are addressed and supported by the Strategic Plan goals. These essentially serve as the outline and organization of the Strategic Plan. The Board of Directors reviews and endorses the Strategic Elements. The Strategic Elements are reviewed annually but are intended, absent major new issues facing the District, to be relatively constant over the life of the five-year Strategic Plan.

Objective/Strategy statement: A concise statement associated with each Strategic Element that describes what the Objective for that Element is and how it will be achieved.

Strategic Goals: The goal statement is supported by a narrative that more fully explains the nature of the goal and the issues that the goal intends to address. The Strategic Goals are prepared by District staff and accepted by the Board. The Strategic Goals may

change from year-to-year when the annual assessment is made of the progress on each Strategic Element. The Strategic goals define the line between policy (Board responsibility) and implementation (staff responsibility) and as such are a collaborative effort of both the Board and staff.

### Glossary of Acronyms

ACWA	Association of California Water Agencies
AWWA	American Water Works Association
BHI	BHI Management Consulting
BMPs	Best Management Practices
CAFR	Comprehensive Annual Financial Report
CDPH	California Department of Public Health
CII	Commercial, Industrial and Institutional
CIP	Capital Improvement Plan
CPA	Certified Public Accountant
CUWCC	California Urban Water Conservation Council
DMM	Demand Management Measures
FY	Fiscal Year
HCF	Hundreds of Cubic Feet
HECW	High Efficiency Clothes Washer
GPS	Global Positioning System
<a href="#">GSP</a>	<a href="#">Groundwater Sustainability Plan</a>
LS	Lift Station
GSA	Groundwater Sustainability Agency
MGD	Millions of Gallons per Day
MOW	Monterey One Water, previously Monterey Regional Water Pollution Control Agency
NIMS	National Incident Management System
OES	Office of Emergency Services
RWQCB	Regional Water Quality Control Board
SGMA	Sustainability Groundwater Management Act
SRF	State Revolving Fund
SCADA	Supervisory Control and Data Acquisition
SEMS	Standardized Emergency Management System
<a href="#">SWRCB</a>	<a href="#">State Water Resources Control Board</a>
WDRs	Waste Discharge Requirements
<a href="#">WIIN</a>	<a href="#">Water Infrastructure Improvements for the Nation</a>
WWTP	Wastewater Treatment Plant

### Original Strategic Plan Development

In FY 2013, the District retained the services of BHI Management Consulting (BHI) to facilitate and coordinate the development of the District's five-year Strategic Plan. BHI first gathered input from the Public, through a public workshop, District Board members, staff and employees in a number of meetings to allow direct and "ground level" input to

the Board during deliberations in a number of planning workshops. At each meeting the District Mission and 5-year Vision were discussed.

The Board supported this process as a way to allow all to participate in the foundation of the Strategic Plan. A Board strategic planning public workshop was conducted in April 2013. With the Board at this workshop, senior District staff also attended. The Board reviewed all inputs prior to working on Mission, Vision, and Core Values for the District and strategic elements for the strategic plan. The Board developed a new Mission statement of the District and created a new Vision statement for the District. The Board also identified the six strategic elements around and within which to organize implementation actions that will support the Mission and assure success of the Vision. Core Values then must be well understood and respected in the plan for implementing the Vision.

Following the Board workshop, key members of District staff, worked with BHI to develop the Strategic Element objective and strategy statements and Strategic Goals, Actions and Tactics that support each element to make the Board's Vision reality within the 5-year timeframe. Using this process, this Strategic Plan was assembled in a way that provides assurance of success for the Board's Vision and Strategy for the District over the next five years. This Plan was then vetted with the Board in another workshop to assure that the implementation proposed by BHI and staff would indeed meet with their understanding and acceptance regarding the Vision success.

### Strategic Plan Maintenance

A key part of the Strategic Planning process is to conduct an annual review to update the Plan. These reviews allow for regular maintenance of the Plan so it reflects the actual progress and conditional needs of the District. The reviews will be documented and followed up with either a Plan supplement or an updated Plan. A five-year planning horizon will be maintained with each review effort developing a new fifth year of actions, projects, and initiatives.

Marina Coast Water District  
Staff Report

Agenda Item: 12-G

Meeting Date: January 29, 2020

Prepared By: Keith Van Der Maaten

Approved By: Keith Van Der Maaten

Agenda Title: Discuss Increasing Compensation to Directors for Attending Board Meetings

Staff Recommendation: The Board of Directors discuss possibly increasing compensation to Directors for attending Board meetings.

Background: *5-Year Strategic Plan Mission Statement – To provide our customers with high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.*

In 2015, the Board made a revision to the Board Procedures Manual to include compensation to Board of Directors for \$50 per Board meeting attended. This did not include attending any Committee or other miscellaneous meetings on behalf of the District.

Discussion/Analysis: At the December 16, 2019 Board meeting, Director Cortez requested the Board revisit the Board compensation provision. He asked that it come to the January meeting for discussion.

Environmental Review Compliance: None required.

Financial Impact: \_\_\_\_\_ Yes     No    Funding Source/Recap: None.

Other Considerations: None.

Material Included for Information/Consideration: None.

Action Required: \_\_\_\_\_ Resolution     Motion    \_\_\_\_\_ Review

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Board Action

Motion By \_\_\_\_\_    Seconded By \_\_\_\_\_    No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_    Abstained \_\_\_\_\_

Noes \_\_\_\_\_    Absent \_\_\_\_\_

Marina Coast Water District  
Staff Report

Agenda Item: 13-A

Meeting Date: January 29, 2020

Prepared By: Keith Van Der Maaten

Approved By: Keith Van Der Maaten

Agenda Title: Receive an Update on the Ord Office Plan

**Summary:** On July 1, 2020, FORA will be no longer be renting and occupying the District owned facilities in the Imjin Office Park as FORA will cease to exist on June 30, 2020 and FORA's lease agreement to use MCWD's facilities expires on June 30, 2020.

For several years there has been discussion and the expectation that when FORA finally closes, MCWD would occupy its office space in the Imjin Office Park. Moving into the Imjin Office Park would allow all administrative staff to be located in one office, which has been a strategic goal of the District for many years. Since the office space is in good order, and MCWD owns the furniture that currently exists in the building, moving into the Imjin Office Park is pretty straightforward. There are, however, a few issues that need to be addressed before MCWD can move its entire administrative staff into the facility since MCWD is bigger than FORA and function's differently than FORA:

- 1) Currently the Imjin Office Park space does not have an adequate public reception and customer service area.
- 2) Currently the Imjin Office Park does not have enough office spaces for all MCWD staff.
- 3) Currently there is no dedicated Board Room space nor sufficient conference room space for Board closed session meetings.
- 4) Currently the Bathrooms and Kitchen/Break area are undersized for MCWD staff.

To address these issues and to begin the process of occupying the building, below is a summary of the proposed Imjin office plans for the District:

- 1) On July 1, 2020, all administrative staff from the Ord Office will begin moving into the Imjin Office Park Office. Operations staff at the Ord Office will stay and will continue to use the Ord Office facility. It is likely that the Lab will move into the Ord Office at this time, but more analysis is necessary to see if this is cost effective. Coordinating the installation of phones, IT infrastructure, and computers, as well as moving files, will be a critical component of this phase.
- 2) In the upcoming Budget Approval process for FY 2020-2021, staff will provide additional detail and propose funding to construct improvements at the Imjin Office Park facilities including the following:
  - a. Hire consultant to develop improvement plans for Imjin (e.g. architect),
  - b. Hire consultant to develop plans for future operations at the Ord Office (i.e. garage, locker rooms, offices, etc.) and to reuse as much of the existing facilities as is possible,
  - c. Construct lobby and Customer Service Area in Imjin Office Park,
  - d. Construct Board Room at Imjin Office Park,
  - e. Construct additional office spaces at Imjin Office Park,
  - f. Construct Improvements to restrooms and kitchen/break area to handle higher use at Imjin Office Park

- 3) On July 1, 2021, administrative staff from MCWD's Beach office will begin moving in to the Imjin Office Park, including Customer Service. Coordinating the move of customer service and communicating the new location to our community will be a critical component of this phase. Additionally, MCWD will begin to hold all Board meetings in the new Boardroom at the Imjin Office Park.

Staff has begun to investigate potential uses for the Beach Office Facility that is proposed to be vacated in July 2021. In the upcoming months, staff will continue to develop options and discuss with the Board the options for the Beach Office Site. The goal is to, at minimum, lease the usable buildings on the site to make up for the loss in revenue from FORA while preserving the site for potential future MCWD uses (e.g. desal wells).

Marina Coast Water District  
Staff Report

Agenda Item: 13-B

Meeting Date: January 29, 2020

Prepared By: Michael Wegley

Approved By: Keith Van Der Maaten

Agenda Title: Receive a Report on Current Capital Improvement Projects

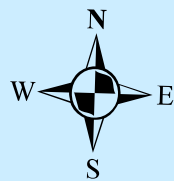
Staff Recommendation: The Board of Directors is requested to receive a report on current capital improvement projects.

Background: *5-Year Strategic Plan Mission Statement 2.0 – Our objective is to provide a high-quality water distribution system and an efficiently operating wastewater collection system to serve existing and future customers.*

The FY 2019-2020 Budget approved by the Board of Directors includes improvements and expansion plans for existing water delivery and wastewater collection systems. The annual Capital Improvement Projects (CIP) are prioritized and listed based on the 5-year Capital Improvement Program which is also updated annually with the budget. The Board requested to receive a report on current CIPs.

Discussion/Analysis: The attached Capital Improvement Project Status Report lists the active projects with the project number, title, description, justification and status of progression through design and construction. Also attached for reference is a map of the 2019-20 Capital Improvement Projects to assist with the report.





**Legend**

- RW-0174 Recycled Water Distribution
- Existing Recycled Water Pipelines

MW-0111 Beach Road Pipeline Del Monte Blvd to DeForest

MS-0143 Replace Lift Station No. 6 (Crescent)

OS-0152 Booker Lift Station

GW-0305 California and Imjin Parkway Pipeline

MW-0302 Crescent Ave Connector to Reservoir 2

OS-0152 Neeson Lift Station

OW-0193 Imjin Parkway Pipeline Resv. Rd to Abrams Dr.

RW-0306 RUWAP Imjin Parkway

OW-0206 Inter-Garrison Road Pipeline Upsizing

OS-0205 Imjin Lift Station Improvements- Phase 1

GW-0112 A1 & A2 Zone Tanks & B/C Booster Station

OW-0306 D Zone Booster Pump Replacement

OS-0147 Ord Village LS & Force Main Improvements

OS-0152 Hatten Lift Station

OW-0202 South Boundary Road Pipeline

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



Marina Coast Water District  
11 Reservation Road  
Marina, CA 93933

### 2019-2020 Capital Improvement Projects

Drawn By:

Jaron Hollida

Date:

02/27/2019



Project No.	Title	Description	Justification	Status
MW-0111	Beach Road Pipeline - Del Monte Blvd. to DeForest Rd.	New 12" parallel pvc pipeline in Beach Road from DeForest Road to Del Monte Ave.	Adresses Fire Flow Deficiencies in Central Marina	Combined with MW-0302 & RW-0174 projects. See RW-0174 for status.
MW-0302	Crescent Ave Connector to Reservoir 2	New 12" pvc pipeline in Beach Road from Reservoir 2 to Crescent Ave.	Adresses Fire Flow Deficiencies in Central Marina	Combined with MW-0111 & RW-0174 projects. See RW-0174 for status.
GW-0112	A1 & A2 Zone Tanks and B/C Booster Sta. - On CSUMB northwest of Inter-Garrison Rd and 6th Ave	Two 1.6 MG A-Zone storage tanks , B-Zone and C-Zone Booster Pump Station, and associated piping and facilities. Architectural treatments not to exceed 10% of tank cost.	This project will provide water storage for Zone A in the Ord Community and Central Marina. The B and C booster pumps will pump water from the A Zone tanks to Zones B and C tanks. The booster pump station replaces dilapidated facilities that have been in service long beyond their useful life.	30% plans have been submitted to CSUMB for review. Design schedule is: Feb. 2020 for for 60% plans with architectural and environmental; July 2020 bid opening; Construction 540 days.
GW-0305	California Avenue and Imjin Parkway Pipeline	Construction of approximately 2,550 feet of 24" diameter pipeline in Imjin Parkway and California Avenue from Abrams Drive to Marina-Heights Drive.	Reroutes A Zone transmission around the Sand Tank when the booster pumps are relocated to the new A Zone tanks.	Part of GW-0112 project; tracked as part of GW-0112.
OS-0152	Hatten, Neeson, Booker LS Improvements	Replacement or refurbishment of lift stations.	Smaller lift stations beyond their useful life and in need of repair.	Neeson lift station refurbished in-house with new pumps and motor control center. Booker wet and dry pits will be replaced with submersible pump station as part of Sea Haven Ph 3 infrastructure by Wathen-Castanos.
OS-0205	Imjin Lift Sta Improvements - Ph 1	First Phase is to construct new wetwell, electrical and controls. Reuse 2 existing pumps and install new 3rd pump. 2nd Phase is replace the force main.	The existing lift station is not operating efficiently and is undersized. The second phase will be needed to accommodate long-term growth.	(REBID) Advertised for bids due 02/20/2020. Award in March and 90 days construction following procurement of materials.
OS-0147	Ord Village LS & FM	Relocate lift station east of Hwy 1 and reconstruct force main in new alignment. Reuse 2016 replacement pumps.	Sanitary sewer overflows from force main. Relocating the lift station eliminates two highway crossings and restores environmentally sensitive State Parks land.	Board approved easements 12/16/19 and Seaside signed them. Notice of Intent and Initial Study/Mitigated Negative Declaration complete. Plans 60% complete.
OW-0193	Imjin Pkwy Water Main Pipeline - Reservation Rd to Abrams Dr	2,800 LF of 12-inch pipeline	Improves connectivity within the B-zone between the Airport/UCMBest and Abrams/Preston Park area.	Combined with RW-0306 for construction with Imjin Parkway by City of Marina. See RW-0306
OW-0202	South Boundary Rd Pipeline	7,300 LF of 24-inch pipeline	Serves Del Rey Oaks and Monterey. Project sequenced to coincide with the FORA South Boundary Road project.	Water Main sizing & design to serve DRO Development. Whitson performing Construction Timing and Alignment Evaluation Study.

Project No.	Title	Description	Justification	Status
OW-0206	Inter-Garrison Road Pipeline Upsizing	Construct 1700-LF of 18-inch water main between East Garrison and Abrams Drive	For commercial Fire flow in East Garrison.	Construction in Progress. Notice to Proceed 11/12/2019 and Substantial Completion February 10, 2020.
RW-0174	RUWAP - Distribution Mains	5 miles of recycled water pipe, 5 PRV's, paving & Jack & Bore Intersection crossing	Implement Recycled Water as a water source to meet the needs of MCWD's customers & to augment the current groundwater supply source for FORA.	Bid opening 12/3/19. Staff Recommendation is to reject all bids and rebid. Contract time - 300 calendar days for substantial completion and 335 days to final completion.
RW-0306	Imjin Pkwy Recycled Water Main Pipeline - Reservation Rd to Abrams Dr	Construction of approximately 2,800 LF of 12-inch PVC recycled water pipeline	This project is sequenced to coincide with the City of Marina Project to widen Imjin Parkway.	Kimley Horn is incorporating the design into the Imjin Parkway Widening project plans to coordinate with the RUWAP distribution mains. Kimley Horn contract amended 5/21/18. Needs reimbursement agreement with Marina. Marina's target date to begin construction is April 2020.

Marina Coast Water District  
Staff Report

Agenda Item: 13-C

Meeting Date: January 29, 2020

Prepared By: Kelly Cadiente

Approved By: Keith Van Der Maaten

Agenda Title: Receive the 4<sup>th</sup> Quarter 2019 District Water Consumption Report

Summary: The Board of Directors is requested to receive the 4<sup>th</sup> Quarter 2019 District Water Consumption Report. The report is a ten-year comparative report that is provided to the Board on a quarterly basis. Quarterly water consumption reports of the Ord Community have been submitted to the Board since 2006 and are organized by land-use jurisdiction. Reports submitted since 2016 include the consumption information for Central Marina as well as an analysis of variances between current-year projected consumption and prior-year consumption. In addition, two graphs of the data in the consumption report are included; 1) 10-Year Comparison of Annual Usage of Central Marina and the Ord Community; and 2) 10-Year Comparison of Annual Usage of the Ord Community by Jurisdiction.

Informational annotations for the data included in the report are as follows:

- The rainfall total for the 4th quarter of 2019 (October, November, December) in Marina was an impressive 7.27” inches. The quarterly rainfall amount was 163% of the historical average of 4.45” inches. The rain year (July-June) to date precipitation total is 7.56” inches, 157% of the historical average of 4.83” inches.
- A clear and warm October helped lift the fourth quarter measured evapotranspiration rate in South Salinas to 7.81” inches. This measurement was 0.88” inches above the historic quarterly average reading of 6.93 “ inches.

# Marina Coast Water District

## 10 Year Annual Consumption as of December 31, 2019

Subdivision	2018 Consumption	2019 Consumption	2019 vs 2018	%	Explanation
East Ridge	8.53	9.55	1.01	11.9%	A few accounts with multiple months of higher than normal use in Qtrs 2 & 3
MarinaConstruction	-	3.33	3.33	100.0%	Amount varies with construction activity (Junsay Oaks would be an attributing factor)
MB Estates II	10.66	9.10	(1.55)	-14.6%	Due partially to wet weather in Qtr1 and overall decrease in use across accounts
MB Estates III	3.46	4.00	0.54	15.7%	Increase in use due to change in tenants
Sea Breeze	8.91	7.92	(0.99)	-11.1%	Due partially to wet weather in Qtr1 and overall decrease in use across accounts
Army (unmetered)	52.17	10.52	(41.65)	-79.8%	Due to meter conversion project
Ord Kidney	83.27	108.33	25.07	30.1%	Due to meter conversion project
Stilwell Park	32.21	50.33	18.12	56.3%	Due to meter conversion project
County	4.91	7.24	2.33	47.5%	Due to Army Corp of Engineers Project
CountyConstruction	0.86	-	(0.86)	-100.0%	Amount varies with construction activity
East Garrison	175.55	202.16	26.61	15.2%	Increase due to development
CSUMB	130.90	113.71	(17.18)	-13.1%	Due to reduction in irrigation
Frederick Park	56.50	42.83	(13.67)	-24.2%	Due to reduction in irrigation
Schoonover II	26.73	21.77	(4.96)	-18.6%	Due to reduction in irrigation
Abrams HAuthor	12.02	5.90	(6.12)	-50.9%	Due to reduction in irrigation
Abrams Interim	4.56	3.43	(1.13)	-24.9%	Decrease in active accounts
Dunes UVSpecPlan	2.25	1.34	(0.91)	-40.6%	Due partially to wet weather in Qtr1 & decrease in use from all accounts in Qtrs 2 & 3
Dunes VA DOD	2.08	2.61	0.53	25.6%	Increased use in 3rd & 4th Qtrs
Imjin Office Park	2.47	7.93	5.46	220.6%	Due to meter change out
MarinaAirport	7.50	3.45	(4.06)	-54.1%	Reduction in use by City of Marina
MarinaConstruction	25.28	35.63	10.35	41.0%	Amount varies with construction activity
Preston Shelter	5.92	5.06	(0.85)	-14.4%	Varies depending on occupancy
School	2.27	2.72	0.45	19.9%	Increase use by MPC
SeaHaven	37.67	61.92	24.24	64.3%	Increase due to development
GolfCourse	1.16	0.19	(0.97)	-83.6%	Reduced use by B&B Golf Properties, LLC
Seaside	8.06	2.24	(5.81)	-72.2%	Reduced use by MPWMD
Seaside Soper	9.12	8.13	(0.98)	-10.8%	Due to wet weather in Qtr1 & low use in Qtr 4
SeasideConstruction	13.65	8.64	(5.01)	-36.7%	Amount varies with construction activity
UCMBEST	1.80	1.10	(0.70)	-38.9%	Due to reduction in irrigation



## Marina Coast Water District

### 10 Year Annual Consumption as of December 31, 2019

Note: Boundary = Jurisdiction

Criteria: Group = Boundary; Aggregate = Boundary,SubDiv; Compare = Reading\_Year\_AF; Account Status = \*; Read Year = 2010..2019; Subdivision = \*

Subdivision	2010 Consumption	2011 Consumption	2012 Consumption	2013 Consumption	2014 Consumption	2015 Consumption	2016 Consumption	2017 Consumption	2018 Consumption	2019 Consumption	Water Allocation	% of Allocation Used
Boundary: Central Marina												
Central Marina	1,712.61	1,619.38	1,683.93	1,695.96	1,599.54	1,389.33	1,327.55	1,349.81	1,400.72	1,315.19		
East Ridge	11.75	10.54	11.04	11.40	10.26	8.16	7.92	8.20	8.53	9.55		
MarinaConstruction	-	-	-	-	-	-	-	-	-	-		3.33
MB Estates II	13.54	13.00	13.67	14.48	12.27	9.74	9.40	9.61	10.66	9.10		
MB Estates III	3.85	3.99	5.29	4.47	3.86	3.17	2.73	2.95	3.46	4.00		
Sea Breeze	10.54	9.76	10.65	11.24	10.27	9.02	8.81	8.80	8.91	7.92		
<b>Total Central Marina</b>	<b>1,752.29</b>	<b>1,656.67</b>	<b>1,724.57</b>	<b>1,737.56</b>	<b>1,636.19</b>	<b>1,419.42</b>	<b>1,356.41</b>	<b>1,379.37</b>	<b>1,432.28</b>	<b>1,349.10</b>		
Boundary: FOArmy												
Army (unmetered)	410.00	410.00	377.00	377.00	200.75	205.80	224.64	190.94	52.17	10.52		
Army	45.29	35.91	24.80	27.53	22.84	19.39	25.05	24.51	26.59	27.30		
ArmyConstruction	2.73	0.13	-	-	-	-	-	-	-	-		
Fitch Park	73.39	78.02	70.23	80.05	66.31	60.20	56.97	97.06	101.43	103.71		
Hayes Park	75.30	78.31	74.79	77.32	71.18	53.40	46.78	53.24	59.12	53.65		
Marshall Park	-	-	-	-	-	-	-	5.66	56.31	59.42		
Ord Kidney	72.91	83.39	95.54	104.17	80.47	71.44	70.02	70.14	83.27	108.33		
Stilwell Park	0.02	0.82	26.65	44.01	28.44	33.74	23.91	21.47	32.21	50.33		
<b>Total FOArmy</b>	<b>679.64</b>	<b>686.58</b>	<b>669.01</b>	<b>710.07</b>	<b>470.00</b>	<b>443.97</b>	<b>447.37</b>	<b>463.02</b>	<b>411.08</b>	<b>413.28</b>	<b>1,577.00</b>	<b>26.21%</b>
Boundary: FOCOUNTY												
County	10.14	5.93	5.35	9.75	3.00	3.17	5.40	8.78	4.91	7.24		
CountyConstruction	0.17	4.33	1.71	0.57	-	-	0.68	-	0.86	-		
EastGarrison	0.06	1.13	2.80	5.56	35.21	71.62	65.92	136.90	175.55	202.19		
<b>Total FOCOUNTY</b>	<b>10.37</b>	<b>11.38</b>	<b>9.85</b>	<b>15.89</b>	<b>38.21</b>	<b>74.79</b>	<b>72.00</b>	<b>145.68</b>	<b>181.32</b>	<b>209.43</b>	<b>710.00</b>	<b>29.50%</b>
Boundary: FOCSUMB												
CSUMB	127.32	150.28	156.05	176.63	152.68	104.04	97.61	128.61	130.90	113.71		
Frederick Park	100.99	109.95	93.13	93.21	63.02	65.91	67.34	63.52	56.50	42.83		
Schoonover I	137.36	140.73	127.43	123.49	105.32	102.44	97.96	98.39	103.86	99.17		
Schoonover II	33.74	33.73	28.88	32.10	23.92	20.69	20.15	23.84	26.73	21.77		
<b>Total FOCSUMB</b>	<b>399.41</b>	<b>434.68</b>	<b>405.50</b>	<b>425.43</b>	<b>344.95</b>	<b>293.08</b>	<b>283.06</b>	<b>314.36</b>	<b>317.98</b>	<b>277.48</b>	<b>1,035.00</b>	<b>26.81%</b>



## Marina Coast Water District

### 10 Year Annual Consumption as of December 31, 2019

Note: Boundary = Jurisdiction

Criteria: Group = Boundary; Aggregate = Boundary,SubDiv; Compare = Reading\_Year\_AF; Account Status = \*; Read Year = 2010..2019; Subdivision = \*

Subdivision	2010 Consumption	2011 Consumption	2012 Consumption	2013 Consumption	2014 Consumption	2015 Consumption	2016 Consumption	2017 Consumption	2018 Consumption	2019 Consumption	Water Allocation	% of Allocation Used
Boundary: FOMarina												
Abrams HAuthor	16.10	13.49	10.31	12.14	8.98	8.39	9.43	10.77	12.02	5.90		
Abrams Interim	5.77	5.33	5.12	5.42	4.92	3.89	3.75	4.12	4.56	3.43		
Abrams Park	50.40	51.56	62.12	56.35	56.92	44.20	39.54	50.92	54.50	52.45		
Dunes CHOMP	-	11.04	8.19	7.14	9.12	8.58	6.77	5.41	6.88	6.42		
Dunes Comm	20.18	14.28	15.12	16.81	14.28	12.71	14.06	30.12	32.89	30.66		
Dunes on MB Res	-	-	-	-	0.10	4.69	24.69	45.20	64.16	64.39		
Dunes UV Apts	21.37	23.69	10.76	9.13	28.85	33.97	20.23	23.56	23.86	23.85		
Dunes UVSpecPlan	3.53	3.07	3.44	5.06	3.52	1.98	2.45	3.24	2.25	1.34		
Dunes VA DOD	-	-	-	-	-	-	0.09	5.42	2.08	2.61		
Imjin Office Park	1.85	1.81	2.30	1.28	1.60	2.03	4.89	4.61	2.47	7.93		
Marina	11.70	10.60	11.78	17.81	13.80	16.99	31.61	31.54	36.65	36.42		
MarinaAirport	9.76	6.90	5.26	4.08	2.75	2.30	2.03	2.77	7.50	3.45		
MarinaConstruction	17.25	7.26	8.56	16.55	35.13	25.33	39.64	42.83	25.28	35.63		
MarinaRecreation	-	-	-	-	-	-	-	0.05	-	-		
Preston Park	98.63	95.49	103.14	101.17	83.30	51.93	51.63	56.31	61.31	55.97		
Preston Shelter	5.54	7.70	6.39	6.63	5.85	5.43	6.63	5.83	5.92	5.06		
School	0.00	3.88	3.23	4.26	3.34	4.54	1.93	1.95	2.27	2.72		
SeaHaven	8.70	9.41	8.97	13.61	7.49	7.34	10.02	23.37	37.67	61.92		
<b>Total FOMarina</b>	<b>270.78</b>	<b>265.52</b>	<b>264.68</b>	<b>277.44</b>	<b>279.97</b>	<b>234.28</b>	<b>269.40</b>	<b>348.02</b>	<b>382.28</b>	<b>400.15</b>	<b>1,325.00</b>	<b>30.20%</b>
Boundary: FOSeaside												
Bay View	70.89	65.41	85.15	91.10	79.48	44.24	46.43	57.97	51.60	46.94		
GolfCourse	349.23	429.66	265.42	457.47	524.88	139.06	1.18	1.11	1.16	0.19		
Marina Coast Water District	-	-	-	-	-	-	-	-	-	0.04		
School	100.39	77.97	79.34	102.72	39.80	50.02	48.91	30.95	43.57	44.06		
Seaside	5.10	4.69	13.38	5.65	4.17	3.91	7.08	5.97	8.06	2.24		
Seaside Resort	-	0.13	0.31	0.45	0.63	0.51	0.89	0.98	1.23	1.21		
Seaside Soper	9.14	11.15	6.86	11.38	12.70	9.58	9.30	8.50	9.12	8.13		
SeasideConstruction	52.84	24.23	13.38	10.00	11.39	18.86	14.39	13.41	13.65	8.64		
SeasideHighland	156.70	154.51	146.57	158.76	134.27	123.69	109.28	114.89	126.20	116.47		
Sun Bay	60.25	69.17	66.54	64.40	44.95	48.70	57.89	58.66	54.20	59.13		
<b>Total FOSeaside</b>	<b>804.55</b>	<b>836.93</b>	<b>676.95</b>	<b>901.94</b>	<b>852.27</b>	<b>438.57</b>	<b>295.35</b>	<b>292.44</b>	<b>308.78</b>	<b>287.04</b>	<b>1,012.50</b>	<b>28.35%</b>



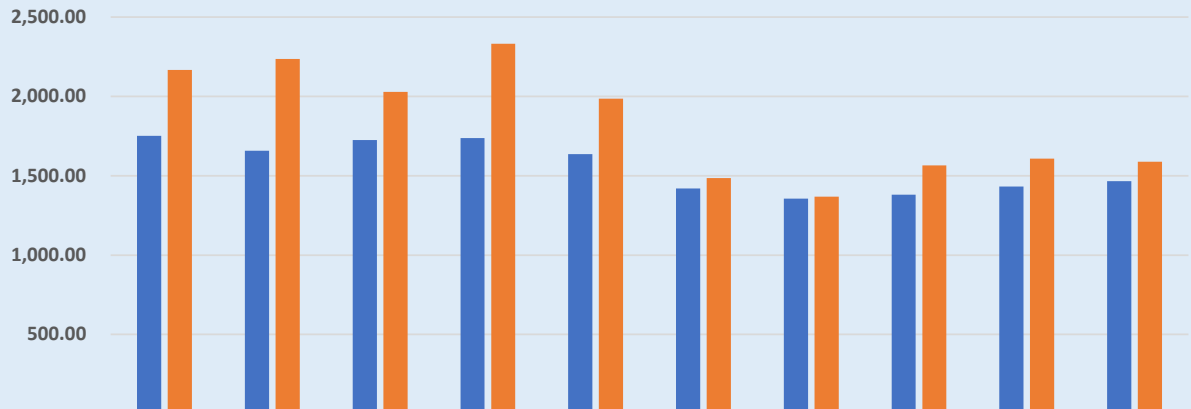
**Marina Coast Water District**  
 10 Year Annual Consumption as of December 31, 2019

Note: Boundary = Jurisdiction

Criteria: Group = Boundary; Aggregate = Boundary,SubDiv; Compare = Reading\_Year\_AF; Account Status = \*; Read Year = 2010..2019; Subdivision = \*

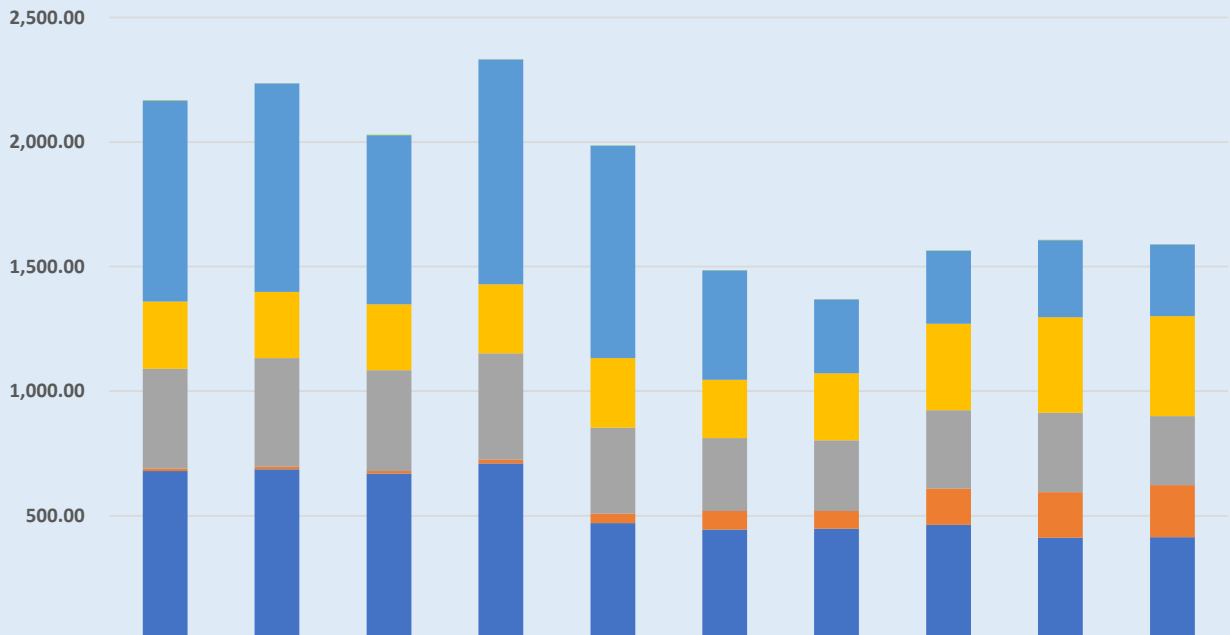
Subdivision	2010 Consumption	2011 Consumption	2012 Consumption	2013 Consumption	2014 Consumption	2015 Consumption	2016 Consumption	2017 Consumption	2018 Consumption	2019 Consumption	Water Allocation	% of Allocation Used
Boundary: FOUCMBES												
UCMBest	2.43	1.12	2.57	1.29	1.11	0.94	0.75	1.30	1.80	1.10		
Total FOUCMBES	2.43	1.12	2.57	1.29	1.11	0.94	0.75	1.30	1.80	1.10	230.00	0.48%
<b>Total Ord Community</b>	<b>2,167.17</b>	<b>2,236.21</b>	<b>2,028.57</b>	<b>2,332.06</b>	<b>1,986.51</b>	<b>1,485.62</b>	<b>1,367.93</b>	<b>1,564.82</b>	<b>1,603.25</b>	<b>1,588.48</b>	<b>5,889.50</b>	<b>26.97%</b>
<b>Grand Total</b>	<b>3,919.46</b>	<b>3,892.88</b>	<b>3,753.14</b>	<b>4,069.62</b>	<b>3,622.69</b>	<b>2,905.03</b>	<b>2,724.34</b>	<b>2,944.18</b>	<b>3,035.53</b>	<b>2,937.58</b>		

### Marina Coast Water District 10-Year Comparison Annual Consumption in Acre Feet



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Central Marina	1,752.29	1,656.67	1,724.57	1,737.56	1,636.19	1,419.42	1,356.41	1,380.22	1,432.40	1,465.50
Ord Community	2,167.17	2,236.21	2,028.57	2,332.06	1,986.51	1,485.62	1,367.93	1,564.82	1,607.16	1,589.03

### Marina Coast Water District - Ord Community 10-Year Comparison Annual Consumption in Acre Feet



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
FOUCMBES	2.43	1.12	2.57	1.29	1.11	0.94	0.75	1.30	1.80	1.10
FOSeaside	804.55	836.93	676.95	901.94	852.27	438.57	295.35	292.44	308.83	287.05
FOMarina	270.78	265.52	264.68	277.44	279.97	234.28	269.40	348.02	383.35	400.73
FOCSUMB	399.41	434.68	405.50	425.43	344.95	293.08	283.06	314.36	318.08	277.48
FOCOUNTY	10.37	11.38	9.85	15.89	38.21	74.79	72.00	145.68	183.55	209.40
FOArmy	679.64	686.58	669.01	710.07	470.00	443.97	447.37	463.02	411.56	413.28



Marina Coast Water District  
Staff Report

Agenda Item: 13-D

Meeting Date: January 29, 2020

Prepared By: Kelly Cadiente

Approved By: Keith Van Der Maaten

Agenda Title: Receive the 2019 Sewer Flow Report through December 31, 2019

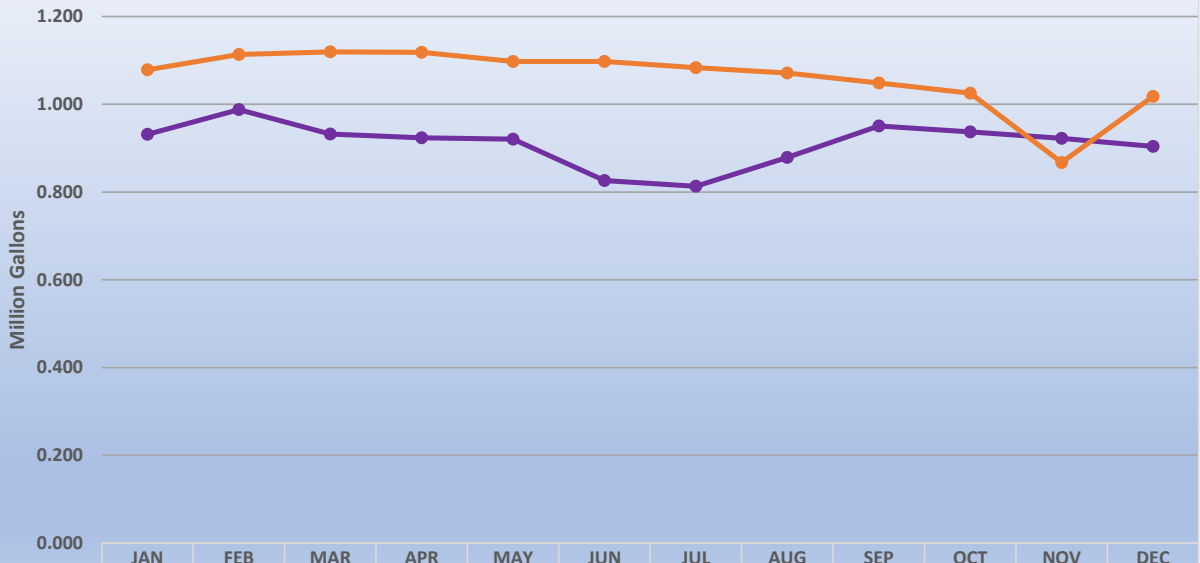
Summary: The Board is requested to receive the 2019 Sewer Flow Report through December 31, 2019. This staff report includes tracking information on sewer flows through the Monterey One Water Agency's (M1W) Fort Ord and Marina pump stations.

M1W provides flow data for the Marina Pump Station monthly through an automated report. Central Marina sanitary sewer flows for the quarter ended December 31, 2019 were 89.350-million-gallons or 274.205 Acre Feet (AF) which yielded an average daily sewer flow of 0.971-million-gallons-per-day (MGD) or 2.980 AF per day.

The Ord Community's sanitary sewer flow to the M1W interceptor system is measured by a District flume structure located adjacent to the retired Main Garrison wastewater treatment plant. The Ord Community sanitary sewer flows for the quarter ended December 31, 2019 was 84.740-million-gallons or 260.057 AF, which yielded an average daily sewer flow of 0.921 MGD or 2.826 AF per day.

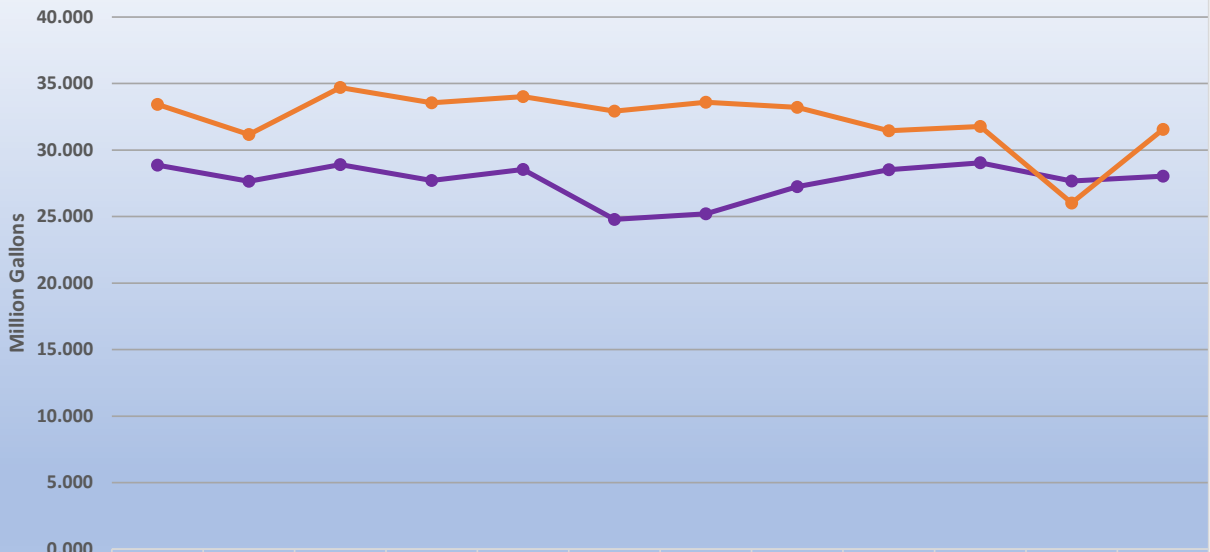
This staff report also includes charts for January – December 2019 average daily flows and the total flows by month.

### MCWD 2019 Average Daily Sewer Flows by Month



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ORD COMMUNITY	0.931	0.988	0.932	0.923	0.921	0.826	0.813	0.879	0.951	0.937	0.922	0.904
CENTRAL MARINA	1.079	1.113	1.119	1.118	1.097	1.097	1.084	1.071	1.048	1.025	0.867	1.018

### MCWD 2019 Total Sewer Flows by Month



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ORD COMMUNITY	28.871	27.658	28.905	27.704	28.537	24.790	25.205	27.240	28.520	29.040	27.670	28.030
CENTRAL MARINA	33.440	31.170	34.700	33.550	34.020	32.920	33.590	33.210	31.450	31.780	26.020	31.550

**From:** Peter Le <[DirectorLe@mcwd.org](mailto:DirectorLe@mcwd.org)>  
**Sent:** Monday, December 2, 2019 2:27 PM  
**To:** Thomas Moore <[directormoore@mcwd.org](mailto:directormoore@mcwd.org)>  
**Cc:** Keith Van Der Maaten <[KVanDerMaaten@mcwd.org](mailto:KVanDerMaaten@mcwd.org)>; [rmasuda@calwaterlaw.com](mailto:rmasuda@calwaterlaw.com)  
**Subject:** Report on Attending CWA Conference

December 2, 2019

Board of Directors  
Marina Coast Water District

I attended the 78th Annual Conference of the California Water Association in Monterey (CWA) on November 14, 2019. The theme of the conference is "New Challenges, New Beginnings". I submit this report on my attendance in accordance with the Board Procedures Manual.

1. The first session was CWA's Year in Review. CWA provides potable water to about 6 million Californians with the goal of providing safe, reliable, and high quality water. CWA faced new rules and regulations such as the Public Safety Power Shutoff, AB 2505 for the Administrator Policy Handbook, SB 200 (Monning) for the Safe, Affordable Drinking Water Fund, and SB 998 for the new water disconnection requirements.

2. The second session was about "A New Beginning for the Right to Human Water". Senator Bill Monning described his effort, beginning in 2000, to pass new laws on the rights to human water. His first bill, SB 623, failed in 2016. His second bill, SB 200, passed unanimously in the Assembly and received only 1 vote against in the Senate. His bill received support from 90 different groups. Even though Senator Monning previously passed over one hundred bills, SB 200 was the only bill he signed with a California Governor, namely Gov. Newsom. Currently, about one million Californians in 300 communities do not have access to clean and safe water. 30 percent was due to agriculture runoff (nitrate) and 70 percent was due to natural contaminants such as arsenic.

SB 200 provided over one billion dollars for 10 years which comprises of \$100,000 per year from cap and trade fund and \$30,000 per from General Fund. 95 percent of the money must be spent on improvements and only 5 percent is allowed to spend on administration.

Governor Newsome signed the SB 200 bill with Senator Monning at a poor community named Tombstone near Sanger. Senator Monning described the incredible bill signing ceremony inside a poor house at this poor community.

3. The next keynote session was delivered by Gloria Gray, the first Chairwoman of Metropolitan Water District of Southern California, a public agency whole seller. The Board comprises of 38 Board members. It provides water to 19 million people, is the largest supplier of treated water in the nation, and covers one trillion dollar economy.

She described three foundations for her agency, namely working collaboratively, diversifying supplies and reinvesting.

On working collaboratively, she emphasized the need to consider ideas from different communities, having robust discussion to reach consensus, respect each other, and receiving benefits from working together.

On diversifying supplies and reinvesting, she described this need due to climate change such as less snow pack. Her agency was in good shape due to earlier long-term planning and regular updates of the inter-regional plans that included public inputs. Her agency just started the water recycle pilot plant with an objective of building a 150 million gallons per day plant that is the largest in the nation. Her agency also tries to reduce the reliance on Colorado River, upgrade the Delta system and increase the water storage. Her agency sought support from communities on conservation and reached out to diversified communities. She emphasized the need to work together between private and public agencies since it's one state and one water.

4. The next session was "Lessons Learned for the Administrator Program". A principal engineer from Los Angeles County Public Works Department described his experience as Administrator for the Sativa Water District in Compton. This District comprises of 90 percent Latino population. It has 1,600 connections for 7,000 people. The District had 2 wells, no storage, and no interconnection. This District was taken over by the SWRCB under AB 1577. The lessons learned were: 1. No one knew how bad Sativa district was, 2. Administrator should be full time and included a multi discipline team, 3. Taking over a District was not cheap, 4. Proximity of the District is key to reduce the take-over costs, 5. May face legal issues, thus needed immunity, 6. The need to win hearts and mind of the community, 7. Disadvantaged communities usually feared and distrust government agencies, 8. Need emergency power for an emergency situation.

5. The next session was "New Innovations in Water Operations and Safety". The innovations were needed due to climate change, aging infrastructures, new legislation, and new technologies. Four people from four different organizations described the innovation at their companies. Chris Catina of Subsurface Technologies, described his proactive well maintenance program that extends life of well, maintaining well productions, maintaining pump efficiency, and stabilize water quality. His company was in operation for 32 years and rehabilitated about 7,000 wells. I passed the information to the General Manager.

San Jose Water Company representative gave examples on how innovations benefit you. The use of solar energy and cloud based data improved pump and motor efficiencies, and improved CI residuals. A pilot project demonstrated the benefits to the company. The company's future goals are to decrease energy costs and increase reliability.

Rebecca Eggers of IBM described the advance of technologies. Previously, human and technologies processes reduced costs. Now the process changes to technologies and artificial intelligence and this new process has challenges. She asked whether artificial intelligence is better than intelligent agent. She described that water utilities can use the following technologies to reduce costs and improve services:

- A. Pattern recognition where human trains machines to see pattern and correlate data.
- B. Knowledge expertise where the use of machine language and artificial intelligence to train machines to learn recognizing problems.
- C. Digital assistance that works across customer service, operators, maintenance, etc., and provide information in real time.

6. The luncheon keynote session was "New Challenges in the Age of Disruption". How do you navigate the Age of Disruption and find common ground in a populist world? The speaker stated that we are in an age of disruption. He gave examples of disruptions in technological, geopolitical and societal areas such as current top-valued companies, winners take all for executive compensation, failures of trusted institutions such as churches or police, changes in control of House, Senate, and the White House, and it's not unique to America. He also discussed other disruptions such as permission-less players who upended establishment; leadership that shifted away from Washington; House, Senate, and White House all in-play in 2020 elections; disruption is accelerating, and an era of reform is coming.

7. The next speaker provided updates on the supplier diversity which achieved a goal of 21.5 percent. This program continues with collaboration, goodwill, leadership and legislative efforts.

8. The next session was about "New Challenges for California Utilities and Their Customers: The Public Safety Power Shutoff". A representative from Southern California Edison provided information on her company's PSPS implementation. SCE provides utilities to 5 million people, covers an area of 50,000 square miles, and includes 181 cities. The company adopted a Wildfire Mitigation plan that includes 160 high-tech cameras that the public can view, weather stations, and covered conductors. The company also conducted workshops with many customers from various industries such as emergencies departments, hospitals, schools, water and wastewater industries, etc. She described a process and steps before SCE actually implements the actual PSPS. She noted that the most 10 destructive wildfires in the State have occurred since 2015.

9. The next session was "New Risks for California's Water Utilities". A panel described new risks in their fields. The principal analyst from Standard & Poor's stated investors prefer predictability and concern about political risks, authorized return on investment, execution risks, and existential risks. Another panelist concerns about inverse condemnation. Another worried about the costs to provide reasonable service and inverse condemnation. The panel also was concerned about public perception, government relations, water quality risks such as Chrome 6, leads, and non-regulated contaminants, more delay from CPUC to reach decisions, and transparency.

10. The next session was "New Directions from the California PUC". However, CPUC Commissioner Martha Aceves, was not able deliver her talk.

The total cost for my attendance was \$100 which was paid by the District. I thank the District for allowing me to attend this conference. I obtained good and relevant information from this conference and passed some relevant information to the General Manager. Let me know if you have any questions.

Sincerely,

Peter Le