

## GM's Report on Water and Wastewater Schedule of Rates and Charges and Setting Public Hearing Date

May 12, 2015







- Budget and rates calendar
- Prop 218 rates and charges
- $\cdot$  Other fees, charges, and regulations
- Next steps

#### Budget and Rates Calendar

#### Budget Workshop #1 • Biennial Budget FY16 & FY17

• FY16 & FY17 Prop 218 rates and charges

Budget Workshop #2

Mail Proposition 218 Notice

Board Meeting ·GM's report on rates & charges

#### **Board Meeting**

- $\cdot \operatorname{Public}$  hearing on rates and charges
- · Board consideration of budget and rates

#### FY16 Rates & Charges Effective

April 14 April 15 - April 24 May 12

June 9



#### March 24

July 1



#### **Prop 218 Rates and Charges**

### Rates Based on Recently Completed COS Study



- Strategic plan called for an updated Cost of Service (COS) Study
- Retained leading consultants to conduct and advise study
  - Raftelis Financial Consultants, leading national rates and charges consultant
  - Best Best & Krieger, leading California law firm on Prop 218
- Concluded study in FY15
  - Forms legal and financial basis for rates
  - Particular focus on documenting COS basis for tiered rates, recycled water rates, and drought rates

#### Water and Wastewater System FY16 & FY17 Proposed Rate Increases

	Prop	osed	Р	rojecte	d
	FY16	FY17	FY18	FY19	FY20
Water	8.0%	7.0%	5.0%	5.0%	5.0%
Wastewater	5.0%	5.0%	5.0%	5.0%	5.0%

#### Combined Monthly Water and Wastewater Impacts—Average SFR



	FY15 Current	FY16 Proposed	Char	nge	FY17 Proposed	Cha	nge
Water – Normal rates 10 Ccf/mo	\$48.60	\$52.17	\$3.57	7.3%	\$55.83	\$3.66	7.0%
<b>Wastewater</b> – 6 Ccf/mo	\$19.25	\$19.01	-\$0.24	-1.3%	\$19.93	\$0.92	4.8%
Total	\$68.85	\$71.80	\$3.33	4.8%	\$75.76	\$3.96	5.5%

#### Staged System of Drought Surcharges Added to Normal Rates



Stage	0	1	2	3	4	$\land$
Demand Reduction		Voluntary 0-15%	Voluntary 0-15%	Mandatory 15%	Mandatory 15%	
Supplemental Supplies			Up to 35,000 acre feet	35,000-65,000 acre feet	> 65,000 acre feet	
Rates and Charges	Normal rates	Normal rates	Normal rates	Normal rates	Normal rates	
			+ 8%	+ 20%	+ 25%	
				Supersaver recognition <sup>*</sup>	Supersaver recognition*	
				Excessive use penalty*	Excessive use penalty*	

\*Supersaver recognition and excessive use penalty not subject to Prop 218 requirements.

### Drought Surcharge Bill Impacts— Stage 4—Single Family Residential



Imp	Impact of Water Charges and Drought Surcharges on Water Bill									ict of narge
	Single Family Residential Use (CCF)	FY15 Bill	FY16 Bill	Increase from FY15	Change	FY17 Bill	Increase from FY16	Change	FY16	FY17
25 <sup>th</sup> Percentile	4	\$29.07	\$34.06	\$4.99	17.2%	\$36.49	\$2.43	7.1%	\$2.92	\$3.16
50 <sup>th</sup> Percentile	7	\$37.80	\$45.10	\$7.30	19.3%	\$48.34	\$3.24	7.2%	\$5.11	\$5.53
75 <sup>th</sup> Percentile	12	\$55.80	\$70.35	\$14.55	26.1%	\$75.39	\$5.04	7.2%	\$10.06	\$10.88
95 <sup>th</sup> Percentile	30	\$132.08	\$183.79	\$51.71	39.2%	\$196.99	\$13.20	7.2%	\$32.22	\$34.76
Average Single Family Residential Use	10	\$48.60	\$60.25	\$11.65	24.0%	\$64.57	\$4.32	7.2%	\$8.08	\$8.74

#### Drought Surcharge and Excessive Use SFR Bill Impacts—Stage 4

Impact of Water Charges, Drought Surcharges, and Excessive Use Penalty on Water Bill for a Single Family Residential Use of 60 Ccf/month Who Does Not Cut Back Use								arge & alty
FY15 Bill	FY16 Bill	Increase from FY15	Change	FY17 Bill	Increase from FY16	Change	FY16	FY17
\$264.68    \$423.59    \$158.91    60.0%    \$451.19    \$27.53    6.5%    \$111.29    \$116.76								\$116.76

In Stage 4, use over 40 CCF/month penalized as Excessive Use at \$2/CCF.

### Monthly Customer Impacts Wastewater Treatment



	Use (Ccf)	FY15 Current	FY16 Proposed	Chan	ge	FY17 Proposed	Chang	ge
Single Family Residential Avg	6	\$19.25	\$19.01	-\$0.24	-1.3%	\$19.93	\$0.92	4.8%
Single Family Residential Max	9	\$21.61	\$22.13	\$0.52	2.4%	\$23.20	\$1.07	4.8%
Multi Family Residential 4 units	25	\$56.41	\$61.21	\$4.81	8.5%	\$64.16	\$2.95	4.8%
Commercial Office	50	\$105.61	\$128.77	\$23.16	21.9%	\$135.03	\$6.26	4.9%
Commercial Restaurant	50	\$229.61	\$246.27	\$16.66	7.3%	\$258.53	\$12.26	5.0%
Industrial	500	\$6,557.61	\$6,915.77	\$358.16	5.5%	\$7,261.03	\$345.26	5.0%

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## Annual Customer Impacts— Wet Weather Facilities Charge

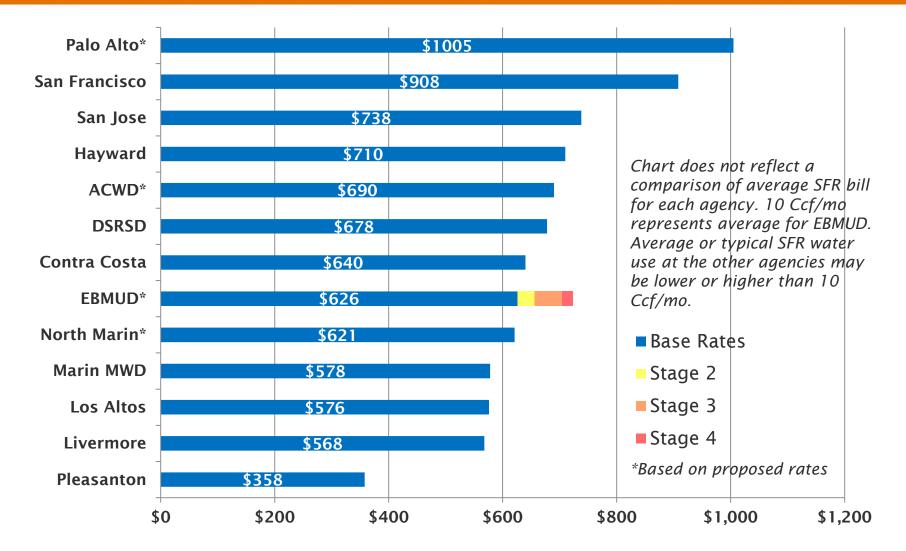


	Wet Weather Facilities Charge on Property Tax Bill							
	FY15			FY16			FY17	
Single Family Residential	\$89.34							
Multi-Family Residential 2 Units	\$178.68							
Multi-Family Residential 4 Units	\$357.36		\$89.62	\$140.00	\$320.00	\$94.10	\$147.00	\$336.00
Multi-Family Residential 5+ Units	\$446.70		Small Lot 0 - 5,000 sq ft	Medium Lot 5,001 – 10,000 sq ft	Large Lot >10,000 sq ft	Small Lot 0 - 5,000 sq ft	Medium Lot 5,001 – 10,000 sq ft	Large Lot >10,000 sq ft
Commercial	\$134.00			·				
Industrial	\$134.00							
Parcels with Multiple Accounts	\$223 to \$670 +							

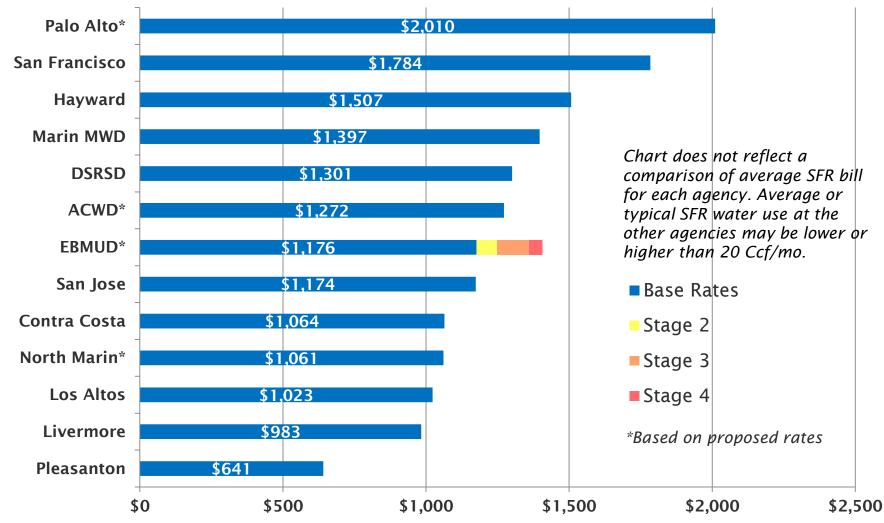
## Agency Comparison Consideration

- Average use varies by agency
  - District average is 10 CCF/month
  - Others may be higher or lower depending on:
    - Housing density,
    - Climate variation, and
    - Demographics
- Some agencies have instituted drought rates
- Schedule for rate changes vary

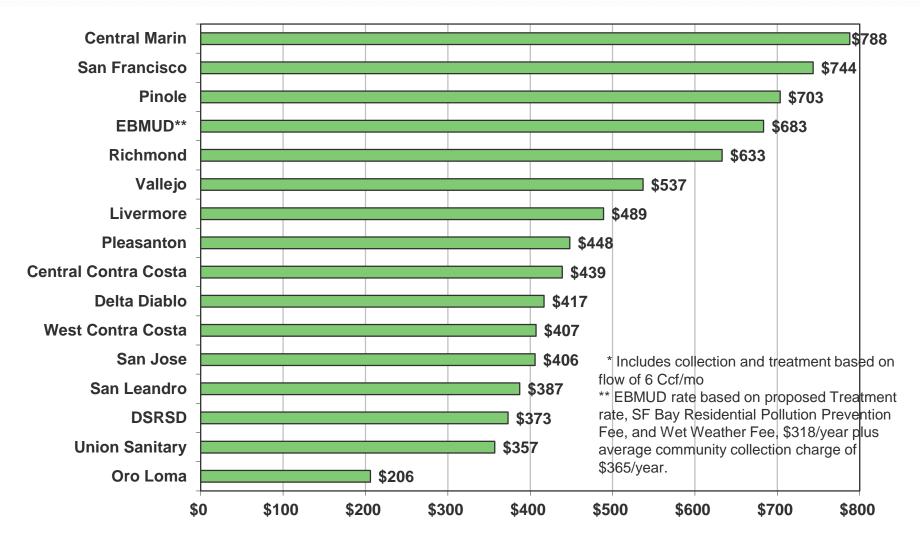
#### Water Bills Calculated for 10 CCF/Mo Annual Charge for SFR – Effective 7/1/15



#### Water Bills Calculated for 20 CCF/Mo Annual Charge for SFR – Effective 7/1/15



# Wastewater Bills Calculated for 6 CCF/Mo Discharge





#### Non-Prop 218 Rates and Charges

# Other Fees, Charges and Regulations



- Water Fees and Charges
  - Special Services: Service Trip Charge, Service
    Interruption Charges, and Hydrant Meter Account Site
    Visit Charge
  - Recreation fees and other
- Water Regulations
  - Minor changes to Explanation of Terms, Applying for Service, Standard Service, Guarantee Deposits, Prohibiting Wasteful Use of Water, Nonpotable Water Service, and Water Efficiency Requirements
- Wastewater Fees and Charges
  - Increase permit fee for monitoring by 10.3% FY16 and 10.2% FY17

Charges for Special Services – Field Enforcement Actions for Water Theft



Action	Current Charge	Proposed Charge
Turn-off service/trip charge	\$33	\$43
Pad lock service	\$33	\$43
Remove meter and plug/unplug service	\$199	\$350
Re-install service and lateral	\$6,200 +	\$6,200 +
Hydrant meter account site visit	\$167	\$215

## Proposed Water and Wastewater Capacity Charges Increase



- Water System Capacity Charge (SCC)
  - Adjust charges for 2015 ENR Construction Cost Index
  - Updated costs for the Future Water Supply component
  - SFR SCC increase 1.7-2.1% for Regions 1, 2 and 3
- Wastewater Capacity Fee (WCF)
  - Adjust charges for 2015 ENR Construction Cost Index
  - Implement 3<sup>rd</sup> year of 5 year phase-in of updated calculations from FY13; FY16
  - SFR WCF increase 15.7% from \$1,607 to \$1,860

## SCC Rates by Region and Sub Region



3/4*-	Current and Proposed SCC for 3/4*-inch Meters (Single Family) and 5/8-inch Meters (Non-Residential)						
(	CURRENT	FY15	PROPO	SED FY16		For Single Family Residential	
Region	Single Family	Non- Residential	Single Family	Non- Residential	Increase	% Increase	
1	\$16,100	\$23,000	\$16,370	\$24,380	\$270	1.7%	
2	27,830	41,360	28,410	42,220	580	2.1%	
3	35,610	38,370	36,230	39,040	620	1.7%	
3C	80,890	See Note 1	83,830	See Note 1	2,940	3.6%	
3D	91,170	91,170	93,850	93,850	2,680	2.9%	

\*If a combined fire service is required, a 1" or larger combined meter will be installed; SCC will be based on potable demand <sup>3</sup>/<sub>4</sub>" minimum.

Note 1: Calculated based on a 1993 Agreement with HCV & Associates Ltd., Wiedemann Ranch, Inc., and Sue Christensen.

## Recommended Board Action and Next Steps



- $\cdot$  File GM Report and Recommendation
- · Set Public Hearing for June 9, 2015



## Water Supply Briefing

## Water Operations Department May 12, 2015



## Water Supply Briefing





- Current Water Supply
- Water Supply Projections
- Drought Operations

#### Current Water Supply Precipitation & Snow



Mokelumne Precipitation 26.14" (57% of average)

East Bay Precipitation 19.16" (73% of average)

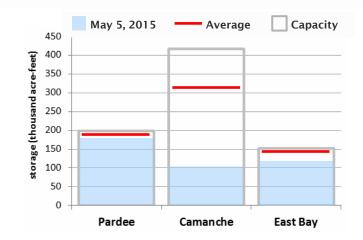
5% of the precipitation accumulation season remaining



#### Current Water Supply Reservoir Storage



Total System Storage 392,480 acre-feet (62% of avg, 51% of capacity)





#### Water Supply Projections Mokelumne Runoff



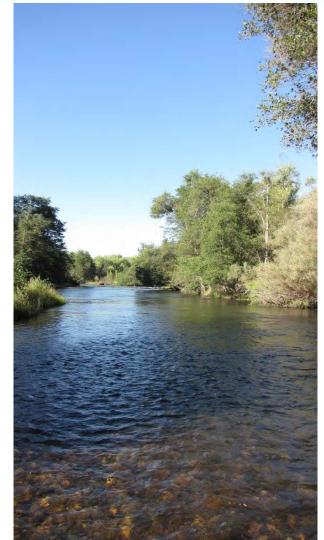
#### Actual Runoff Received 185 TAF + Projected Runoff To-Come 15 to 45 TAF Total WY15 Runoff 200 to 230 TAF



#### Water Supply Projections Mokelumne River Curtailment



- State Water Resources Control Board notice posted on April 23, 2015
- Curtailment of post-1914 appropriative right diversions from San Joaquin River watersheds
- Reduces cold water storage for fish habitat preservation
- Could reduce EBMUD storage by 0 to 30 TAF



#### Water Supply Projections Total System Storage





Runoff	Total System Storage* (no supplemental supply)	Total System Storage* (with CVP supply)
200 TAF	285 TAF	310 TAF
230 TAF	295 TAF	325 TAF

\*Projected storage on September 30, 2015

#### Water Supply Projections Total System Storage



# What Factors Affect the End of Water Year Total System Storage?

Factor	Total System Storage Change
Water Transfers	Increase
Diversion Curtailment	Decrease
Upstream Releases	Varies
Customer Demand	Varies
Gainsharing	Varies

#### Water Supply Projections 4 Year Storage Decline



## WY15 Drought Operations



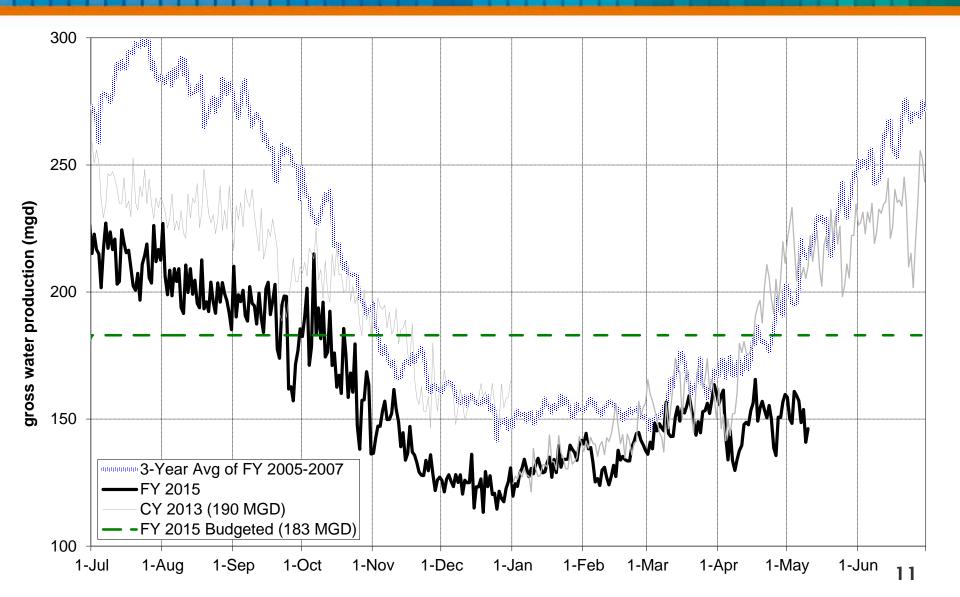


#### FREEPORT

#### INTERTIES

#### WY15 Drought Operations Gross Water Production





#### WY15 Drought Operations Customer Demand Savings





Calendar Year	Savings Rate (2013 Baseline)	Savings Rate (Avg of 2005-2007 Baseline)
2014	13%	20%
2015	10%	15%

WY15 Drought Operations Freeport Regional Water Project





FREEPORT REGIONAL WATER AUTHORITY



- Initiating 33,250 acre-feet delivery of Central Valley Project water
- Coordinated operation
  - Sacramento County Water Agency
  - U.S. Bureau of Reclamation
- 90 million gallons per day
- Approximately 7,000 acrefeet delivered since April 15





#### WY15 Drought Operations Supplemental Supply - Transmission

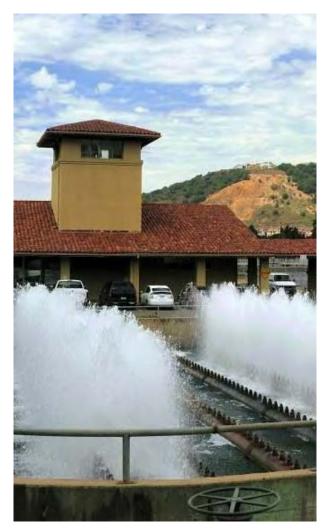




#### WY15 Drought Operations Supplemental Supply - Treatment & Distribution



- Maximize Sobrante and Upper San Leandro WTP production
- Deliver supplemental supply to about 500,000 customers in northern and southern portions of service area
- Meet all drinking water standards
- Algae blooms in San Pablo and Upper San Leandro Reservoirs
- May experience taste and odor differences in water



#### WY15 Drought Operations Cold Water Requirements

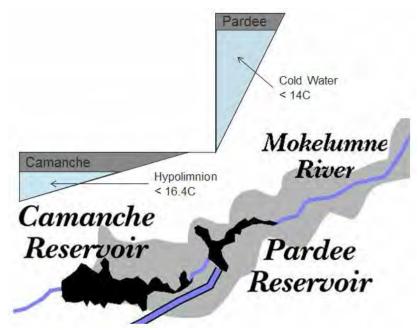


#### Joint Settlement Agreement (USFWS, CA DFW, EBMUD)

- Protects fish resources on the lower Mokelumne River ecosystem
- Use best efforts to maintain 28 TAF of cold water (16.4°C) in Camanche Reservoir through October

#### **Current Cold Water Condition**

- Camanche Reservoir 30 TAF
- Pardee Reservoir ~90 TAF
- Less runoff and storage in WY15 make it difficult to meet requirement



#### WY15 Drought Operations Cold Water Management

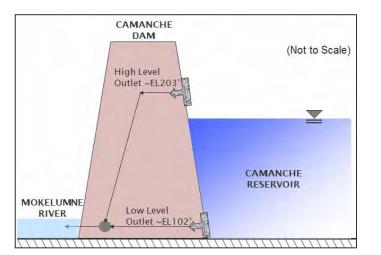


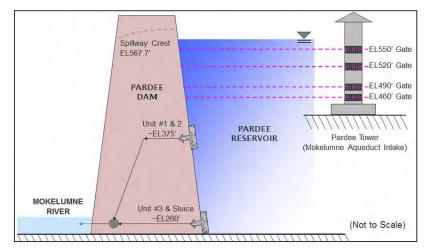
#### Cold Water Management Tools

- Maintain Pardee Reservoir storage high in spring/summer
- Pulse cold water releases from Pardee to Camanche Reservoir
- Divert warmer water from Pardee Tower to Mokelumne Aqueducts

#### Customer Impacts

• May experience taste and odor differences (warm water diversions may have different water quality)





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#### Water Year 2015 EBMUD Water Supply Review



- Mokelumne Precipitation
  - RY2015 = 2<sup>nd</sup> driest year
  - RY2012-2015 = driest 4-year period
  - 5% of precipitation season remaining
- Mokelumne River basin runoff is 185 TAF
- Projected end of water year storage is 310 to 325 TAF (includes CVP and does not include the impact of curtailment)

## The 2015 Drought Plan





Supplemental Supply

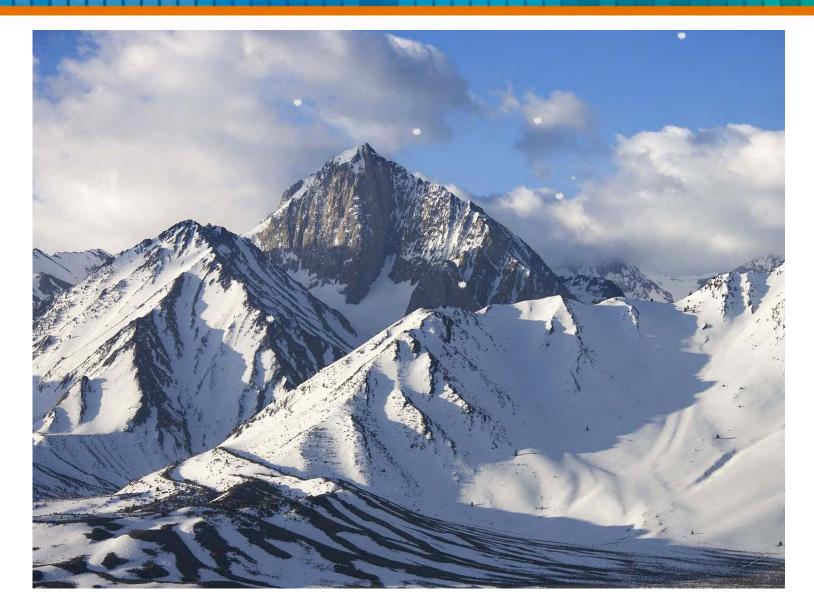
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#### Customer Rationing

# A Community Effort to Manage the Drought!

## Looking Forward to a Snowy Winter in Water Year 2016!





#### WATER SUPPLY ENGINEERING DAILY REPORT

Monday, May 11, 2015

	AGE	MAXIMUM		7					
	Elevation	SURFACE +Gain	<u></u>	+Gain	Elevation	Storage	-	Release	Spill
MOKELUMNE	Feet	-Loss	Ac-Ft	-Loss	Feet	Ac-Ft		<u>Cfs</u>	Cfs
Pardee	557.2	0.01	175560	20	567.65	197950		11	0
Camanche	177.9	-0.15	100770	-500	235.5	417120		231	0
EAST BAY									
Briones	572.91	-0.05	58200	-40	576.14	60510		0	0
Chabot	217.99	-0.02	7470	-10	227.25	10350		0	0
Lafayette San Pablo	443.34	-0.01	3540	0	449.16	4250		0	0
San Pablo Upper San Leandro	291 438.41	-0.07 0.19	22300	-40 <u>100</u>	313.68 459.98	38600 <u>37960</u>		0 0	0 0
Total East Bay Res.	430.41	0.19	<u>24170</u>		439.98			0	0
			<u>115680</u>	<u>10</u>		<u>151670</u>			
TOTAL SYSTEM STORAGE			392010	-470		766740			
DISTRIBUTION SYSTEM				MOKELUMNE SYSTEM					
DISTRIBUTION RESERVOIRS				AQUEDUCT DELIVERIES					
		Storage	Operating			MG		Flow Cor	
		MG	Capacity		Line 1	0		SHUTD	
Today	-		720	Line 2		0		SHUTD	
Total Previous Day		<u>405</u>			Line 3	<u>92.4</u>		<u>THRO</u>	
Total Change		-3			TOTAL	92.4		143 (	
WATER PRODUCTION Million Capa			Capacity	FSCC to MOK AQUEDUCTS (Measured at Brandt), MG Mok 1 39.6					
AND DEMAND		Gallons	MGD		Mok 2	<u>50.3</u>			
	2				WICK 2				
Lafayette WTP		8.2 52.7	25 190			89.9			Cfa
Orinda WTP San Pablo WTP	52.7 0		190 30						<u>Cfs</u> 660
Sobrante WTP		38.1	50		Pardee Reserv		II FIOW		187
Upper San Leandro WTP	27.8 45			Pardee Release to Camanche Res. 11					
Walnut Creek WTP	37.6 90			Pardee Release to JVID					0
				Camanche Release to Mokel. River 231					
TOTAL SURFACE PRODUCTION 164.4			430						
Miscellaneous(Estimated) 0.4			PG&E CO. STORAGE (Acre-feet)						
TOTAL WATER PRODU		<u>164.8</u>						Maximum	
Change in Distribution S		-3				<u>Storage</u>	<u>Change</u>	Capacity	
Wash Water from Distri	bution Sys.	1.8		Old Re	eservoirs	15291	17	26560	
SYSTEM DEMAND		165.9			orings Res.	62382	805	141857	
East-of-Hills Demand		52.2			Bear Res.	<u>31495</u>	<u>116</u>	<u>52025</u>	
West-of-Hills Demand		113.7		Total		109168	938	220442	
RAW WATER TRANSMISSION Ac-ft				PRECIPITATION (Inches)					
		DRAFT			THIS Y	EAR		AVERAG	E YEAR
Briones Res.	0	18							
San Pablo Res.	91	121	<b>STATION</b>			This	Season	Season	Season
U. San Leandro Res.	184	92			Today	<u>Month</u>	to-Date	to-Date	<u>Total</u>
	ac -		USL WTP		0	0	20.32	24.65	25.33
TOTAL	275	231	Orinda WT		0	0	23.86	31.26	32.06
REMARKS			Lafayette Reservoir		0	0.01	18	27.53	28.18
WID Canal Diversion = 113 cfs			Walnut Creek WTP		0	0.01	18.55	22.52	23.02
Mokelumne River below $WID = 20 cfs$			Camp Pardee		0	0.36	17.76	20.75	21.56
			Salt Springs P.H.		0	1.03	25.67	43.18	45.51
	CAL	PLES LAKE (7,8	30 FT) DA	TA					
PG&E data as of 4:00 pm previous date.					Today		Average		
All other data as of midnight.			Snow Depth		0 Inches		32 Inches		
WTP capacities are sustainable rates.			Water Con	tent	0.0 Inches	15	5.9 Inches		

#### **RESERVOIR STORAGE AND ELEVATION**

EAST BAY MUNICIPAL UTILITY DISTRICT

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