

**COMMISSION OF SILICON VALLEY CLEAN WATER
JOINT POWERS AUTHORITY
REGULAR MEETING – Thursday, March 8, 2018
8:00 a.m.**

Place: Pelican Conference Room
Silicon Valley Clean Water
1400 Radio Road, 2nd Floor
Redwood City, California

COMMISSIONERS

COUNCIL MEMBER JOHN SEYBERT, REDWOOD CITY – CHAIR
COUNCIL MEMBER WARREN LIEBERMAN, Ph.D., BELMONT – VICE CHAIR
BOARD MEMBER GEORGE OTTE, P.E., WEST BAY SANITARY DISTRICT – MEMBER
MAYOR ROBERT GRASSILLI, SAN CARLOS – SECRETARY

MANAGER: DANIEL T. CHILD

ATTORNEY FOR THE AUTHORITY: CHRISTINE C. FITZGERALD

CONTROLLER/TREASURER: KIMBRA MCCARTHY

AMERICANS WITH DISABILITIES ACT

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact SVCW (650) 591-7121. Notification in advance of the meeting will enable the Authority to make reasonable arrangements to ensure accessibility to this meeting.

AGENDA

1. CALL TO ORDER
2. ROLL CALL
3. PLEDGE OF ALLEGIANCE
4. PUBLIC COMMENT

Any member of the public may address and ask questions of the Chair under this item relating to any matter within the Commission's jurisdiction that does not appear as a separate item on the Agenda. An opportunity will be provided for members of the public to address the Chair and ask questions about any item that is listed on the agenda at the time the Commission considers the item and before action is taken. If you address the Commission on a non-agenda item, please be aware that the Ralph M. Brown Act (Gov. C. § 54950 et seq.) prohibits the Commission from acting on or discussing such matters at this meeting. Any such item may be referred to staff for a decision with regard to placing it on a future agenda for discussion, action or a report.

- A. Presentation by Pacific Gas and Electric of Grant Check for Power Savings Program Participation

5. SAFETY MOMENT and REPORTS

- A. Safety Moment
- B. Manager's Report (verbal)
- C. Financial Reports
 - 1. Investment Report December 31, 2017
 - 2. Investment Report January 31, 2018
 - 3. Quarterly Financial Report Report / Discussion
- D. Engineering Projects Status Update February 2017
- E. Commission Requested Staff-Level Action Items
- F. RESCU Program Design-Build Project Status Update Handout / Presentation

6. MATTERS OF COMMISSION MEMBER'S INTEREST

7. CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR

8. BUSINESS ITEMS

- A. CONSIDERATION OF RESOLUTION APPROVING CONSTRUCTION CONTRACT DOCUMENTS FOR THE NEW 12KV SWITCHGEAR PROJECT (CIP #9807)

Proposed Action: Move adoption of RESOLUTION ACCEPTING CONTRACT DOCUMENTS AND ACCEPTING BID OF LOWEST RESPONSIBLE BIDDER FOR THE NEW 12KV SWITCHGEAR PROJECT (CIP #9807); REJECTING ALL OTHER BIDS, AUTHORIZING EXECUTION OF AGREEMENT FOR SAID WORK, DIRECTING RETURN OF SECURITY DEPOSITS THEREFORE, AND AUTHORIZE MANAGER TO APPROVE CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT VALUE FOR SAID PROJECT (\$7,527,000) – JF SHEA/PARSONS JOINT VENTURE

- B. CONSIDERATION OF MOTION TO RECEIVE AND ACCEPT PRESENTATION OF SILICON VALLEY CLEAN WATER LONG RANGE FINANCIAL PLAN – 2018 UPDATE

Proposed Action: Move approval of RECEIPT AND ACCEPTANCE OF SILICON VALLEY CLEAN WATER CAPITAL IMPROVEMENT PROGRAM (LONG RANGE FINANCIAL PLAN) 2018 UPDATE

- C. CONSIDERATION OF RESOLUTION AUTHORIZING SVCW MANAGER TO NEGOTIATE AND SIGN A LETTER OF INTENT FOR SHARED SERVICES AGREEMENT – CITY OF SAN MATEO

Proposed Action: Move adoption of RESOLUTION AUTHORIZING SVCW MANAGER TO NEGOTIATE AND EXECUTE A LETTER OF INTENT RELATED TO THE LONG-TERM OPERATION OF THE WASTEWATER TREATMENT FACILITIES – CITY OF SAN MATEO

- D. FY 2017-18 BUDGET WORKSHOP EVALUATION – INFORMATIONAL ONLY – NO ACTION TO BE TAKEN. COMMISSION WILL PROVIDE DIRECTION TO STAFF AS NEEDED

9. CLOSED SESSION

- A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8

Property Description: 930 Governor's Bay, Redwood City, CA (APN: 095-380-210)

SVCW Negotiators: Lillian Jewell, Kevin Thorne (Hamner, Jewell & Associates);

SVCW Manager, Daniel T. Child

Negotiating Parties: Young/Leung

Under Negotiation: Price and terms

- B. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

(Government Code §54956.9(d)(4))

Number of Potential Cases: 1

- C. PUBLIC EMPLOYEE PERFORMANCE EVALUATION (Government Code §54957)

Title: Manager

- D. LABOR NEGOTIATIONS (Govt. Code Section 54957.6(a))

AGENCY NEGOTIATORS: Daniel T. Child, SVCW Manager
Matt Anderson, Chief Financial Officer/Admin. Manager
Jennifer Flick, SVCW Human Resources Director
Monte Hamamoto, SVCE Chief Operating Officer
Darrell Murray, IEDA

EMPLOYEE ORGANIZATION: IUOE LOCAL 39

10. RECONVENE IN OPEN SESSION – Announce action taken in Closed Session, if any.

11. ADJOURN

CONSENT CALENDAR

NOTICE TO PUBLIC

All matters listed under CONSENT CALENDAR are considered to be routine. There may be discussion on items on the CONSENT CALENDAR. All items will be enacted by one motion with a roll call vote unless members of the Commission, staff, or public request specific items be removed from the CONSENT CALENDAR for separate action.

7. A. APPROVAL OF MINUTES – January 18, 2018 Special Meeting
- B. CONSIDERATION OF MOTION APPROVING CLAIMS AND CHECKS DATED DECEMBER 30, 2017 AND NECESSARY PAYMENTS THROUGH MARCH 1, 2018

- C. CONSIDERATION OF RESOLUTION TERMINATING THE DECLARATION OF EMERGENCY FOR NETWORK FAILURE

Proposed Action: Move adoption of RESOLUTION TERMINATING THE SUSPENSION OF COMPETITIVE BIDDING REQUIREMENTS CONFERRED BY RESOLUTION NO. 15-39 AND THE CORRESPONDING MANAGER AUTHORITY (INFORMATION NETWORK REPAIRS) (4/5ths weighted vote count required)

- D. CONSIDERATION OF MOTION ACCEPTING FINAL PROJECT AND FILING NOTICE OF COMPLETION FOR THE PUMP STATION VALVE PROCUREMENT AND PUMP STATION VALVE REPLACEMENT PROJECTS

Proposed Action: Move approval of ACCEPTANCE TO THE PUMP STATION VALVE PROCUREMENT AND PUMP STATION VALVE REPLACEMENT PROJECTS (CAPITAL PROJECT #262, #263) AND AUTHORIZE FILING NOTICE OF COMPLETION – D.W. NICHOLSON

- E. CONSIDERATION OF MOTION ACCEPTING FINAL PROJECT AND FILING NOTICE OF COMPLETION FOR THE SITE STABILIZATION, GRADING AND DRAINAGE PROJECT

Proposed Action: Move approval of ACCEPTANCE TO THE SITE STABILIZATION, GRADING AND DRAINAGE PROJECT (CIP #6013, 9238) AND AUTHORIZE FILING NOTICE OF COMPLETION – TEICHERT CONSTRUCTION, INC.

F. CONSIDERATION OF RESOLUTIONS AUTHORIZING SVCW TO ENTER INTO FINANCING AGREEMENTS FOR TWO STATE REVOLVING FUND LOANS FOR WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE 2 AND SOLAR ENERGY PROJECT

Proposed Actions:

- i. Move adoption of RESOLUTION OF THE COMMISSION OF SILICON VALLEY CLEAN WATER APPROVING AND AUTHORIZING SUBMITTAL OF APPLICATION TO STATE WATER RESOURCES CONTROL BOARD FOR FINANCIAL ASSISTANCE UNDER CLEAN WATER STATE REVOLVING FUND PROGRAM FOR THE SOLAR PHOTOVOLTAIC ENERGY PROJECT, AND DESIGNATING AND AUTHORIZING THE AUTHORITY'S MANAGER TO PROVIDE ASSURANCES, CERTIFICATIONS, AND COMMITMENTS REQUIRED FOR SAID APPLICATIONS
- ii. Move adoption of RESOLUTION OF THE COMMISSION OF SILICON VALLEY CLEAN WATER APPROVING AND AUTHORIZING SUBMITTAL OF APPLICATION TO STATE WATER RESOURCES CONTROL BOARD FOR FINANCIAL ASSISTANCE UNDER CLEAN WATER STATE REVOLVING FUND PROGRAM FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE 2 – RELIABILITY PROJECTS, AND DESIGNATING AND AUTHORIZING THE AUTHORITY'S MANAGER TO PROVIDE ASSURANCES, CERTIFICATIONS, AND COMMITMENTS REQUIRED FOR SAID APPLICATIONS
- iii. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY DEDICATING AND PLEDGING PAYMENT OF ANY AND ALL CLEAN WATER STATE REVOLVING FUND FINANCING FOR THE SOLAR PHOTOVOLTAIC ENERGY PROJECT
- iv. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY DEDICATING AND PLEDGING PAYMENT OF ANY AND ALL CLEAN WATER STATE REVOLVING FUND FINANCING FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE 2 – RELIABILITY PROJECTS
- v. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY RELATING TO REIMBURSEMENT FROM CLEAN WATER STATE REVOLVING FUND PROGRAM FOR CAPITAL EXPENDITURES FOR THE SOLAR PHOTOVOLTAIC ENERGY PROJECT
- vi. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY RELATING TO REIMBURSEMENT FROM CLEAN WATER STATE REVOLVING FUND PROGRAM FOR CAPITAL EXPENDITURES FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE 2 – RELIABILITY PROJECTS
- vii. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY RESCINDING RESOLUTIONS 15-31, 15-32, AND 15-33 AND AUTHORIZING MANAGER TO WITHDRAW THE AUTHORITY'S PRIOR

APPLICATION TO THE STATE WATER RESOURCES CONTROL BOARD FOR
FINANCIAL ASSISTANCE FOR THE WASTEWATER TREATMENT PLANT
IMPROVEMENT PHASE 2 PROJECT

- G. CONSIDERATION OF RESOLUTIONS REVISING ADMINISTRATIVE POLICY 2007-03, "WORKPLACE VIOLENCE" AND ADOPTION OF ADMINISTRATIVE POLICY 2018-02, "ANTI-BULLYING"

Proposed Actions:

- i. Move adoption of RESOLUTION APPROVING AND ADOPTING REVISION A OF ADMINISTRATIVE POLICY 2007-03, "WORKPLACE VIOLENCE"
- ii. Move adoption of RESOLUTION APPROVING AND ADOPTING ADMINISTRATIVE POLICY 2018-02, "ANTI-BULLYING"

- H. APPROVAL OF MASTER SERVICES AGREEMENT FOR JONES HALL FOR FINANCIAL SERVICES RELATED LEGAL SERVICES

Proposed Action: Move adoption of RESOLUTION AUTHORIZING EXECUTION OF LEGAL SERVICES AGREEMENT FOR SPECIAL OUTSIDE COUNSEL – JONES HALL, A PROFESSIONAL CORPORATION

SAFETY MOMENT**National Sleep Awareness Week: March 4, 2018 – March 11, 2018****“How Losing Sleep Affects Your Body and Mind”**

If you’ve been skimping on sleep to get more done during your waking hours, you may be fooling yourself if you think you’re getting away with it. The truth is, insufficient shuteye can compromise the way that you feel and function around the clock, often in sneaky ways. After all, good-quality sleep provides your mind and body with the opportunity for renewal and rejuvenation, which can help enhance your everyday performance. Here’s a head-to-toe look at the reality of what happens when you cheat on sleep.

Your mind won’t function optimally. Sleep is critical for the formation and consolidation of memories—and for your ability to retrieve them while you’re awake. Plus, when you’re tired, it’s more difficult to learn something new or to pay attention to whatever it is you should be attending to. These deficits can compromise your creativity, your ability to make decisions or solve problems, and your work performance.

Your mood can take a nosedive. Getting enough shuteye helps with mood and emotion regulation, so you might feel cranky, irritable, or emotionally out of sorts if you don’t snooze enough. What’s more, you could become more reactive to stress than usual.

Your reaction time may suffer. Believe it or not, going just 19 hours without sleep can compromise your speed and accuracy on tests of judgment and motor reaction time as much as if you were legally drunk. Naturally, this can increase your risk of having a car accident, as well as performing badly at other tasks involving quick thinking and coordination.

You can end up looking bad. Literally! Consistently skimping on sleep can lead to premature wrinkling and sagging of your skin, partly because cortisol (a stress hormone that’s released when you’re sleep-deprived) can break down collagen, which keeps your skin smooth. You can also feel colder than usual because sleep is essential for body temperature regulation.

Your heart can suffer. Sleeping fewer than six hours a night can increase your risk of developing high blood pressure or worsen high blood pressure if you already have it. Plus, over time, skimping on sleep can increase your odds of developing cardiovascular disease.

Your appetite can go into overdrive. When you don’t get enough sleep, you may feel hungrier than usual and crave high-fat, high-carbohydrate foods in particular. Your body’s

fullness (satiety) signals also get thrown out of whack. These effects can lead to unwanted weight gain.

Your immune system will take a hit. When you're tired and even moderately sleep-deprived, your immune function is compromised. This can leave you vulnerable to catching colds, the flu, and other infectious illnesses—and make it harder to recover from infections and heal from wounds.

Source: <https://sleep.org/articles/how-losing-sleep-affects-your-body-mind/>

SILICON VALLEY CLEAN WATER

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CITY OF SAN CARLOS | CITY OF REDWOOD CITY | CITY OF BELMONT | WEST BAY SANITARY DISTRICT

SILICON VALLEY CLEAN WATER
INVESTMENT LISTING
December 31, 2017

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Annual OPS and CAP Budget Reserve								
FEDERAL HOME LN MTG CORP PARTN CTF	N.A.	03/01/2018	5.000%	2.02	8,158	8,167	8,451	165
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2020	5.000%	2.27	39,836	40,721	42,027	924
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	1.94	60,000	60,496	61,478	1,173
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.05	30,000	29,342	30,366	602
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/17/2018	1.950%	1.76	100,000	100,201	100,962	1,768
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/09/2018	1.477%	1.44	50,000	50,022	49,959	720
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/09/2018	4.625%	1.47	125,000	125,765	127,245	1,844
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	1.91	50,000	51,689	52,543	985
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/13/2019	4.500%	1.94	100,000	104,272	106,584	2,018
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	1.99	30,000	29,655	30,316	590
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.02	100,000	98,573	99,839	1,990
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.06	100,000	97,940	99,654	2,019
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	1.76	60,000	59,911	60,458	1,053
FEDERAL NATL MTG ASSN GTD REMIC	NR	09/25/2019	2.171%	2.17	135,268	135,266	137,043	2,939
FEDERAL NATL MTG ASSN	AA+	09/25/2020	1.750%	2.15	100,000	99,293	100,707	2,134
FEDERAL HOME LN MTG CORP MULTICLASS	NR	11/25/2019	1.869%	2.18	127,740	127,204	127,560	2,778
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	1.86	30,000	29,956	30,380	557
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	1.92	30,000	29,643	30,155	568
FEDERAL HOME LN MTG CORP MULTICLASS	N.A.	04/15/2020	4.000%	2.10	21,766	21,981	22,419	462
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2019	5.500%	2.17	27,958	28,494	29,565	618
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	03/01/2020	5.500%	2.35	3,408	3,418	3,532	80
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2020	5.000%	2.29	19,312	19,754	20,386	452
GNMA II PASSTHRU CTF POOL #003421	N.A.	08/20/2018	4.500%	2.92	4,306	4,297	4,512	125
GENERAL ELEC CAP CORP MTN	A	08/07/2018	1.662%	1.75	75,000	75,076	74,771	1,315
IOWA FIN AUTH REV ST REVOLVING FD	AAA	08/01/2018	3.280%	1.73	50,000	50,455	50,857	871
NORTH ST PAUL MAPLEWOOD MINN I GO	AA	02/01/2018	5.000%	1.55	50,000	50,126	50,798	776
SMALL BUSINESS ADMIN GTD LN POOL	N.A.	02/25/2019	4.075%	3.12	22,813	22,989	23,672	718
U S BANCORP MTNS BK ENT FR	AA-	11/15/2018	1.950%	1.97	50,000	50,005	50,051	983
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	2.43	50,000	49,821	49,712	1,210
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.87	80,000	79,494	80,000	1,484
MONTGOMERY CNTY MD CTF PARTN COPS	N.A.	11/01/2019	1.200%	2.22	100,000	98,185	100,039	2,176
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.34	100,000	100,900	104,648	2,362
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	2.41	100,000	101,253	104,309	2,443
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.22	110,000	114,421	117,215	2,536
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	2.01	80,000	79,162	80,000	1,593
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.32	60,000	59,149	60,000	1,372
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	2.42	40,000	39,449	40,000	954
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.08	80,000	79,177	80,000	1,645
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.05	150,000	148,607	150,000	3,040
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	1.97	70,000	68,954	69,617	1,355
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.13	70,000	68,114	69,118	1,452
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.16	35,000	35,315	36,075	762
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/29/2020	1.830%	2.04	140,000	139,226	141,135	2,837
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.00	140,000	139,103	140,806	2,775
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.06	90,000	87,582	88,932	1,808
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.12	90,000	87,259	88,664	1,850
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.01	30,000	29,750	30,000	599
ALTRIA GROUP INC SR NT	A-	08/09/2022	2.850%	2.66	30,000	30,197	30,269	804
US TREASURY NOTE	NR	03/15/2020	1.625%	1.90	50,000	49,702	49,717	944
CASH & EQUIVALENTS	-	-	-	1.15	-	206,214	206,214	2,371
Annual OPS and CAP Budget Reserve Total						\$ 3,495,741	\$ 3,542,759	\$ 69,601

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Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Capital Improvement Program Reserve								
APPLE INC SR FLT NT	AA+	02/07/2020	1.653%	1.75	100,000	100,332	99,821	1,753
BERGEN CNTY N J TAXABLE GO BDS 2008	N.A.	11/01/2019	6.000%	2.00	100,000	103,371	104,349	2,068
BERKSHIRE HATHAWAY FIN CORP GTD SR	AA	05/15/2018	5.400%	1.91	100,000	101,249	101,953	1,934
CALIFORNIA ST GO BDS TAXABLE	AA-	10/01/2019	6.200%	2.83	100,000	107,175	108,091	3,032
CHEVRON CORPORATION SR NT	AA-	03/03/2019	4.950%	1.99	100,000	103,348	104,407	2,055
CISCO SYS INC SR GLBL NT	A+	01/15/2020	4.450%	2.14	125,000	130,720	132,768	2,793
COLGATE PALMOLIVE CO MTNS FR	AA-	11/01/2018	1.500%	1.93	100,000	99,716	100,162	1,922
EXXON MOBIL CORP SR FLT NT	AA+	03/15/2019	1.738%	1.70	100,000	100,095	99,935	1,699
FEDERAL HOME LN MTG CORP PARTN CTF	N.A.	03/01/2018	5.000%	2.02	2,743	2,746	2,841	55
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	2.41	25,429	25,931	26,812	625
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	1.94	340,000	342,812	344,352	6,647
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.05	100,000	97,808	101,220	2,006
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/05/2018	4.500%	(3.17)	500,000	500,145	508,785	(15,845)
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/22/2018	5.050%	1.70	20,000	20,331	20,360	345
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/06/2020	5.300%	2.11	450,000	482,472	489,834	10,199
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/03/2019	5.320%	1.99	50,000	52,778	53,685	1,050
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	02/27/2018	4.670%	1.48	450,000	452,394	458,177	6,677
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.03	60,000	61,333	62,506	1,244
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	1.93	250,000	248,753	250,000	4,801
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	1.95	60,000	63,094	64,257	1,232
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	4.625%	2.04	200,000	212,316	213,826	4,327
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/14/2018	3.750%	1.90	250,000	254,478	256,078	4,833
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	1.91	25,000	25,845	26,272	493
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	4.125%	1.96	125,000	130,179	132,551	2,545
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	1.98	700,000	732,515	742,418	14,482
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	1.94	100,000	99,375	101,676	1,926
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	1.99	50,000	49,425	50,527	983
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.02	170,000	167,574	169,711	3,383
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	2.04	325,000	323,391	331,136	6,584
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.06	240,000	235,056	239,686	4,845
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	1.76	150,000	149,777	151,146	2,633
FEDERAL HOME LN MTG CORP MULTICLASS	NR	06/25/2020	3.531%	2.27	100,000	102,726	106,188	2,333
FEDERAL HOME LN MTG CORP	AA+	06/13/2018	4.875%	1.58	115,000	116,674	117,191	1,848
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	1.85	500,000	511,755	517,065	9,488
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	1.86	50,000	49,927	50,633	929
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	1.92	50,000	49,405	50,259	947
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	05/01/2018	3.840%	3.02	250,000	249,763	266,641	7,543
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	2.680%	2.22	466,441	469,170	485,828	10,416
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	5.000%	2.14	33,313	33,913	35,114	726
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	2.78	203,682	211,127	225,960	5,869
INTERNATIONAL BUSINESS MACHS SR GLBL	A+	02/06/2018	1.581%	1.85	100,000	99,994	99,977	1,850
IOWA FIN AUTH REV ST REVOLVING FD	AAA	08/01/2018	3.280%	1.73	25,000	25,228	25,428	436
MICROSOFT CORP NT	AAA	06/01/2019	4.200%	1.97	100,000	103,044	103,501	2,028
MONONA WIS TAXABLE PROM NTS 2015B	N.A.	06/01/2020	3.250%	2.86	100,000	100,956	101,231	2,884
NEW YORK N Y GOBDS 2011 C TAXABLE	AA	10/01/2018	3.480%	1.79	100,000	101,177	101,510	1,815
OHIO ST GO BDS 2009 C TAXABLE	AA+	03/01/2018	4.371%	1.55	100,000	100,439	101,426	1,561
PASADENA CALIF PUB FING AUTH L LEASE	AA	03/01/2018	4.224%	1.54	25,000	25,079	25,249	386
TENNESSEE VALLEY AUTH PWR BD 2008 B	AA+	04/01/2018	4.500%	1.40	500,000	503,725	508,335	7,032
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.87	100,000	99,368	100,000	1,855
MONTGOMERY CNTY MD CTFB PARTN COPS	N.A.	11/01/2019	1.200%	2.22	100,000	98,185	100,039	2,176
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.34	100,000	100,900	104,648	2,362
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	2.34	100,000	100,372	102,565	2,347
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	11/01/2020	3.410%	2.41	116,295	119,376	124,582	2,877
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	2.18	100,000	100,889	103,208	2,196
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	2.41	100,000	97,419	100,111	2,345
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	2.41	225,000	227,819	234,695	5,497
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.22	165,000	171,631	175,822	3,803
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	2.24	260,000	256,025	260,000	5,745
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	2.01	260,000	257,275	260,000	5,176
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.08	340,000	335,546	340,000	6,976
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.32	80,000	78,865	80,000	1,830
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	2.42	120,000	118,346	120,000	2,862

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								Estimated
Broker/Dealer	Composite	Coupon	Yield to					Annual \$
Investment Name	Credit	Maturity	Rate	Maturity	Par Value	Market Value	Cost	Yield Earnings
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.08	80,000	79,177	80,000	1,645
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.05	220,000	217,956	220,000	4,459
FEDERAL HOME LN MTG CORP	AA+	10/26/2021	2.000%	2.26	220,000	216,968	220,000	4,901
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	1.250%	2.33	220,000	219,677	219,505	5,118
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	1.97	290,000	285,665	288,674	5,613
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.13	140,000	136,228	138,235	2,904
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.16	310,000	312,787	317,712	6,753
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.16	310,000	308,137	311,600	6,650
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.00	170,000	168,910	170,979	3,370
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.06	170,000	165,432	167,983	3,415
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.12	170,000	164,822	167,476	3,494
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2022	1.900%	2.22	165,000	162,456	165,772	3,608
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/03/2022	1.900%	2.23	165,000	162,413	165,427	3,622
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.18	170,000	167,986	170,636	3,660
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2022	1.850%	2.23	130,000	127,888	131,022	2,853
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.01	120,000	119,000	120,000	2,397
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	2.45	220,000	217,565	220,000	5,324
FEDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.27	120,000	118,850	120,000	2,701
BANK AMER CORP FR	A-	05/13/2021	5.000%	2.51	75,000	80,840	81,361	2,027
CONSTELLATION BRANDS INC SR GLBL NT	BBB-	11/06/2020	2.250%	2.55	25,000	24,771	24,942	630
HOME DEPOT INC SR GLBL NT	A	04/01/2021	2.000%	2.28	80,000	79,211	79,838	1,807
LORILLARD TOB CO SR NT	BBB	05/01/2020	6.875%	2.95	25,000	27,410	27,666	807
MORGAN STANLEY SR NT	A-	01/27/2020	2.650%	2.41	80,000	80,362	80,837	1,936
ORACLE CORP SR GLBL	A+	05/15/2022	2.500%	2.45	80,000	80,126	80,090	1,962
PHILIP MORRIS INTL INC SR NT	A	03/26/2020	4.500%	2.34	25,000	26,166	26,443	613
STARBUCKS CORP SR GLBL	A-	02/04/2021	2.100%	2.31	80,000	79,486	79,979	1,833
3M CO FR	A+	06/26/2022	2.000%	2.37	100,000	98,236	98,800	2,327
FEDERAL HOME LN MTG CORP	AA+	12/29/2021	2.250%	2.23	120,000	119,688	120,000	2,670
FEDERAL HOME LOAN BKS CONS BDS	AA+	10/26/2022	2.280%	2.42	100,000	99,553	99,600	2,406
CASH & EQUIVALENTS	-	-	-	1.15	-	1,867,780	1,867,780	21,479
Capital Improvement Program Reserve Total						\$ 16,608,192	\$ 16,838,899	\$ 302,450

Stage 2 Capacity Reserve

BERKSHIRE HATHAWAY FIN CORP GTD SR	AA	05/15/2018	5.400%	1.91	100,000	101,249	101,949	1,934
CEDAR PARK TEX CTFB OBLIG TAXABLE	AA	08/15/2018	5.280%	2.50	50,000	50,999	51,654	1,272
CISCO SYS INC SR GLBL NT	A+	01/15/2020	4.450%	2.14	75,000	78,432	79,661	1,676
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	2.41	25,429	25,931	26,812	625
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	11/01/2020	4.500%	2.19	27,577	28,003	28,749	613
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	1.94	100,000	100,827	102,463	1,955
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.05	100,000	97,808	101,220	2,006
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/29/2018	0.875%	1.66	100,000	99,635	100,035	1,649
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/15/2018	4.500%	1.58	100,000	101,181	101,549	1,603
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/28/2018	4.780%	1.87	55,000	56,253	56,813	1,052
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.03	60,000	61,333	62,506	1,244
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	1.93	200,000	199,002	200,000	3,841
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/09/2018	1.477%	1.44	50,000	50,022	49,959	720
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	1.95	50,000	52,578	53,548	1,026
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/09/2018	4.625%	1.47	75,000	75,459	76,347	1,106
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	1.91	100,000	103,378	105,086	1,970
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	1.98	125,000	130,806	132,474	2,586
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	1.94	100,000	99,375	101,676	1,926
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	1.99	100,000	98,850	101,053	1,965
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.02	100,000	98,573	100,893	1,990
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	2.04	175,000	174,134	178,304	3,545
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.06	180,000	176,292	180,225	3,633
FEDERAL NATL MTG ASSN	AA+	01/14/2019	3.275%	1.93	100,000	101,465	102,562	1,956
FEDERAL HOME LN MTG CORP MULTICLASS	NR	10/25/2020	2.788%	2.15	53,089	53,369	54,416	1,148
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	1.85	250,000	255,878	258,487	4,744
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	1.86	100,000	99,853	101,266	1,857
FEDERAL HOME LN MTG CORP	AA+	08/01/2019	1.250%	1.90	100,000	99,022	100,881	1,882
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	1.92	100,000	98,809	100,517	1,893
FEDERAL HOME LN MTG CORP	AA+	04/09/2018	0.750%	1.45	100,000	99,816	99,836	1,442
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	05/01/2018	3.840%	3.02	200,000	199,810	213,313	6,034
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2020	4.000%	2.32	58,274	59,973	61,060	1,391
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	2.78	170,361	176,588	188,995	4,909
GARNER N C GO PUB IMPT BDS TAXABLE	AA+	02/01/2018	3.050%	1.57	50,000	50,048	50,397	787

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								Estimated
Broker/Dealer	Composite	Coupon	Yield to					Annual \$
Investment Name	Credit	Maturity	Rate	Maturity	Par Value	Market Value	Cost	Earnings
GENERAL ELEC CAP CORP MTN	A	08/07/2018	1.662%	1.75	100,000	100,101	99,695	1,753
IOWA FIN AUTH REV ST REVOLVING FD	AAA	08/01/2018	3.280%	1.73	100,000	100,910	101,713	1,743
JPMORGAN CHASE & CO SR NT	A-	03/01/2021	2.550%	2.54	50,000	50,027	50,944	1,269
LANCASTER CNTY NEB SCH DIST NO SCH	AA	01/15/2021	4.550%	2.94	50,000	52,671	54,457	1,549
NORFOLK VA GO CAP IMPT BDS 2010 B	AA	03/01/2019	4.650%	2.40	100,000	102,605	103,952	2,464
NORTH ST PAUL MAPLEWOOD MINN I GO	AA	02/01/2018	5.000%	1.55	100,000	100,251	101,595	1,552
TENNESSEE VALLEY AUTH PWR BD 2008 B	AA+	04/01/2018	4.500%	1.40	200,000	201,490	203,274	2,813
U S BANCORP MTNS BK ENT FR	AA-	11/15/2018	1.950%	1.97	100,000	100,010	100,101	1,965
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	2.43	50,000	49,821	49,712	1,210
XTO ENERGY INC SR NT	AA+	06/15/2018	5.500%	1.69	100,000	101,662	102,052	1,718
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.87	200,000	198,736	200,000	3,710
MONTGOMERY CNTY MD CTFB PARTN COPS	N.A.	11/01/2019	1.200%	2.22	100,000	98,185	100,039	2,176
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	2.34	150,000	150,558	153,848	3,520
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	2.18	150,000	151,334	154,812	3,295
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	2.41	100,000	97,419	100,111	2,345
FEDERAL HOME LN MTG CORP	AA+	08/25/2021	1.375%	2.29	90,000	88,291	90,000	2,017
METRO WASTEWTR RECLAMATION DIS REV	AA+	04/01/2019	4.718%	2.11	100,000	103,289	105,398	2,180
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.22	55,000	57,210	58,607	1,268
FEDERAL HOME LN MTG CORP	AA+	03/30/2021	1.500%	2.14	60,000	58,564	60,000	1,252
FEDERAL HOME LN MTG CORP	AA+	09/30/2021	1.050%	2.88	100,000	97,651	99,900	2,809
FEDERAL NATL MTG ASSN	AA+	09/30/2019	1.250%	2.00	60,000	59,252	59,985	1,187
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	2.24	60,000	59,083	60,000	1,326
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.08	100,000	98,690	100,000	2,052
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.32	80,000	78,865	80,000	1,830
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	2.42	60,000	59,173	60,000	1,431
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.08	40,000	39,588	40,000	823
FEDERAL HOME LN MTG CORP	AA+	10/26/2021	2.000%	2.26	150,000	147,933	150,000	3,342
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	1.250%	2.33	150,000	149,780	149,663	3,490
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	1.97	260,000	256,113	258,975	5,033
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.13	80,000	77,845	78,992	1,660
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.16	120,000	121,079	122,985	2,614
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.16	120,000	119,279	120,619	2,574
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.00	260,000	258,333	261,498	5,154
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.06	260,000	253,014	256,916	5,222
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.12	260,000	252,080	256,140	5,344
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2022	1.900%	2.22	290,000	285,528	291,357	6,342
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/03/2022	1.900%	2.23	290,000	285,453	290,751	6,366
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.18	300,000	296,445	301,122	6,460
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2022	1.850%	2.23	85,000	83,619	85,668	1,866
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.01	180,000	178,501	180,000	3,595
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	2.45	280,000	276,900	280,000	6,776
FEDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.27	180,000	178,276	180,000	4,052
HOME DEPOT INC SR GLBL NT	A	04/01/2021	2.000%	2.28	60,000	59,408	59,879	1,355
ORACLE CORP SR GLBL	A+	05/15/2022	2.500%	2.45	120,000	120,190	120,134	2,943
PHILIP MORRIS INTL INC SR NT	A	03/26/2020	4.500%	2.34	55,000	57,565	58,174	1,348
STARBUCKS CORP SR GLBL	A-	02/04/2021	2.100%	2.31	60,000	59,615	59,984	1,375
FEDERAL HOME LN MTG CORP	AA+	12/29/2021	2.250%	2.23	80,000	79,792	80,000	1,780
CASH & EQUIVALENTS	-	-	-	1.15	-	346,549	346,549	3,985
Stage 2 Capacity Reserve Total						\$ 9,753,481	\$ 9,904,301	\$ 201,915
Subtotal, Bank of the West						\$ 29,857,413	\$ 30,285,959	\$ 573,965

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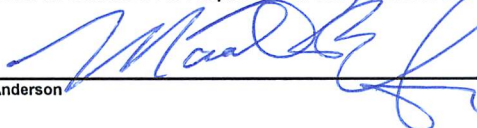
Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
California Local Agency Investment Fund		LAIF	-	1.239		\$ 2,323,121	\$ 2,323,121	28,783
TOTAL UNRESTRICTED INVESTMENTS						\$ 32,180,535	\$ 32,609,080	\$ 602,749
Bank of New York (Trustee)								
2008 Interest Account - Cash	-	-	0.000%	-		1	1	-
2009 Reserve Account - Federal National Mortgage Assn 3136G3Q73	Aaa	7/26/2019	1.150%	1.16		4,725,221	4,780,000	54,813
2009 Reserve Account - BMW BK North Amer Salt Lake 05580ACK8	Aa	7/24/2019	2.000%	2.00		149,769	150,000	2,995
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS	-	-	0.000%	-		100,943	100,943	-
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS	-	-	0.000%	-		62,656	62,656	-
2009 Revenue FD Account - Morgan Stanley Treas Sec X9USDMORS	-	-	0.000%	-		1,350	1,350	-
2014 Revenue Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	-	0.000%	-		425	425	-
2014 Revenue Account - Cash	-	-	0.000%	-		4	4	-
2014 Interest Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	-	0.000%	-		13	13	-
2014 Principal Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	-	0.000%	-		7	7	-
2014 Project Account - Cash	-	-	0.000%	-		5,193	5,193	-
2014 COI Account - Cash	-	-	0.000%	-		2	2	-
2015 Project Account - Cash	-	-	0.000%	-		752	752	-
2015 Revenue Account - JP Morgan Prime MMKT Instl X9USDJPMP	-	-	0.000%	-		163	163	-
2015 Revenue Account - Cash	-	-	0.000%	-		2	2	-
2009 Escrow - United States Treasury 912828UJ7	Aaa	1/31/2018	0.875%	0.88		598,832	599,629	5,270
2009 Escrow - Resolution Funding Corp Interest Strip 76116EFS4	Aaa	7/15/2018	0.000%	-		334,792	329,183	-
2009 Escrow - United States Treasury 912828VQ0	Aaa	7/31/2018	1.375%	1.38		262,650	265,978	3,625
2009 Escrow - United States Treasury 912828B33	Aaa	1/31/2019	1.500%	1.51		600,787	610,349	9,072
2009 Escrow - Tunisia Government Aid Bonds 066716AG6	Aaa	7/16/2019	1.686%	1.69		40,205,264	40,944,692	679,469
2009 Escrow - Cash	-	-	0.000%	-		3,154	3,154	-
Subtotal, Bank of New York (Trustee)						\$ 47,051,980	\$ 47,854,496	\$ 755,243
Less Amounts held in Escrow for 2009 Bond Defeasance						\$ (42,005,479)	\$ (42,752,985)	\$ (697,435)
Net Total, Bank of New York (Trustee)						\$ 5,046,501	\$ 5,101,511	\$ 57,808
Uninvested Operating Cash						49,390	49,390	-
TOTAL CASH & INVESTMENTS, UNRESTRICTED AND WITH TRUSTEE						\$ 37,276,425	\$ 37,759,981	660,557
							Weighted Average Yield to Maturity %	1.77%

Summary by Investment Type:	Market Value
US Treasuries	\$ 214,651
Agencies	25,817,435
Commercial Paper / Corporate Bonds	3,152,739
Municipal Bonds / Notes	3,291,985
Money Market / Certificates of Deposit	2,476,494
Local Agency Investment Fund	2,323,121
TOTAL	\$ 37,276,425

Summary by Purpose / Restriction Level	Market Value
Working Capital	\$ 2,372,511
Operations & Capital Budget Reserve	3,495,741
Capital Improvement Program Reserve	16,608,192
Stage 2 Capacity Reserve	9,753,481
Debt Reserve	5,045,584
Debt Proceeds	917
TOTAL	\$ 37,276,425

Summary by Liquidity:	Market Value
0-1 years	\$ 10,456,603
1-2 years	10,505,828
2-3 years	7,050,595
3-5 years	9,263,399
TOTAL	\$ 37,276,425

SVCW has sufficient liquid resources available to meet expenditure requirements per SVCW's investment policy.
All SVCW investments are in compliance with SVCW's Investment Policy.


M. Anderson

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WEST BAY SANITARY DISTRICT

SILICON VALLEY CLEAN WATER

INVESTMENT LISTING

January 31, 2018

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Annual OPS and CAP Budget Reserve								
FEDERAL HOME LN MTG CORP PARTN CTF	N.A.	03/01/2018	5.000%	2.11	5,337	5,338	5,529	113
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2020	5.000%	2.46	38,019	38,731	40,110	953
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.16	60,000	60,246	61,478	1,302
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.34	30,000	29,165	30,366	681
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/17/2018	1.950%	1.80	100,000	100,075	100,962	1,797
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/09/2018	1.598%	1.40	50,000	50,022	49,959	698
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/09/2018	4.625%	1.80	125,000	125,435	127,245	2,254
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.17	50,000	51,616	51,916	1,121
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/13/2019	4.500%	2.13	100,000	103,822	106,584	2,216
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.22	30,000	29,498	30,316	656
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.30	100,000	97,868	99,839	2,253
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.34	100,000	97,155	99,670	2,275
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	1.89	60,000	59,895	60,458	1,133
FEDERAL NATL MTG ASSN GTD REMIC	NR	09/25/2019	2.171%	2.30	135,007	134,529	136,779	3,097
FEDERAL NATL MTG ASSN	AA+	09/25/2020	1.750%	2.43	100,000	98,578	100,707	2,396
FEDERAL HOME LN MTG CORP MULTICLASS	NR	11/25/2019	1.869%	2.30	127,474	126,532	127,295	2,909
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.05	30,000	29,885	30,380	614
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.13	30,000	29,561	30,155	631
FEDERAL HOME LN MTG CORP MULTICLASS	N.A.	04/15/2020	4.000%	2.19	20,636	20,783	21,255	455
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2019	5.500%	2.47	25,784	26,220	27,267	-648
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	03/01/2020	5.500%	3.14	2,004	2,012	2,076	63
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2020	5.000%	2.49	18,485	18,848	19,513	469
GNMA II PASSTHRU CTF POOL #003421	N.A.	08/20/2018	4.500%	3.12	3,611	3,606	3,783	113
GENERAL ELEC CAP CORP MTN	A	08/07/2018	1.662%	1.96	75,000	75,039	74,771	1,472
IOWA FIN AUTH REV ST REVOLVING FD	AAA	08/01/2018	3.280%	1.77	50,000	50,376	50,857	890
NORTH ST PAUL MAPLEWOOD MINN I GO	N.A.	02/01/2018	5.000%		50,000	50,000	50,798	
SMALL BUSINESS ADMIN GTD LN POOL	N.A.	02/25/2019	4.325%	3.06	21,219	21,342	22,018	654
U S BANCORP MTNS BK ENT FR	AA-	11/15/2018	1.950%	2.02	50,000	49,956	50,051	1,007
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	2.38	50,000	49,697	49,784	1,181
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.86	80,000	79,550	80,000	1,481
MONTGOMERY CNTY MD CTF PARTN COPS	N.A.	11/01/2019	1.200%	2.44	100,000	97,870	100,039	2,384
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.45	100,000	99,848	104,081	2,443
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	2.70	100,000	100,154	104,309	2,701
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.45	110,000	113,677	117,215	2,784
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	2.23	80,000	78,841	80,000	1,756
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.57	60,000	58,780	60,000	1,511
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	2.67	40,000	38,991	40,000	1,041
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.33	80,000	78,628	80,000	1,830
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.31	150,000	147,974	150,000	3,414
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.20	70,000	68,746	69,631	1,515
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.41	70,000	67,423	69,137	1,626
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.44	35,000	34,924	35,991	853
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/29/2020	1.830%	2.31	140,000	138,852	140,958	3,207
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.25	140,000	138,390	140,806	3,112
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.35	-90,000	86,909	88,959	2,045
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.41	90,000	86,410	88,694	2,080
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.42	30,000	29,527	30,000	714
ALTRIA GROUP INC SR NT	A-	08/09/2022	2.850%	2.97	30,000	29,840	30,269	885
US TREASURY NOTE	NR	03/15/2020	1.625%	2.17	50,000	49,436	49,717	1,073
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/11/2020	1.620%	2.43	140,000	137,396	137,844	3,337
CASH & EQUIVALENTS				1.22		86,854	86,854	1,060
Annual OPS and CAP Budget Reserve Total					\$	3,484,850	\$	3,546,424
							\$	76,904

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Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Capital Improvement Program Reserve								
APPLE INC SR FLT NT	AA+	02/07/2020	1.653%	1.79	100,000	100,371	99,821	1,793
BERGEN CNTY N J TAXABLE GO BDS 2008	N.A.	11/01/2019	6.000%	2.10	100,000	102,965	104,349	2,157
BERKSHIRE HATHAWAY FIN CORP GTD SR	AA	05/15/2018	5.400%	1.89	100,000	101,019	101,953	1,908
CALIFORNIA ST GO BDS TAXABLE	AA-	10/01/2019	6.200%	2.38	100,000	106,366	108,091	2,527
CHEVRON CORPORATION SR NT	AA-	03/03/2019	4.950%	2.20	100,000	102,961	104,407	2,269
CISCO SYS INC SR GLBL NT	A+	01/15/2020	4.450%	2.33	125,000	129,951	131,244	3,033
COLGATE PALMOLIVE CO MTNS FR	AA-	11/01/2018	1.500%	1.90	100,000	99,624	100,162	1,888
EXXON MOBIL CORP SR FLT NT	AA+	03/15/2019	1.738%	1.82	100,000	100,121	99,935	1,823
FEDERAL HOME LN MTG CORP PARTN CTF	N.A.	03/01/2018	5.000%	2.11	1,794	1,795	1,859	38
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	2.61	22,263	22,617	23,474	590
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.16	340,000	341,394	344,352	7,378
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.34	100,000	97,216	101,220	2,271
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/22/2018	5.050%	1.69	20,000	20,285	20,360	344
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/06/2020	5.300%	2.37	450,000	478,926	489,834	11,346
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/03/2019	5.320%	2.19	50,000	52,457	53,685	1,146
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	02/27/2018	4.670%	1.23	450,000	451,130	458,177	5,558
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.30	60,000	61,003	62,506	1,404
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	2.10	250,000	248,010	250,000	5,218
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	2.14	60,000	62,713	64,257	1,343
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	4.625%	2.30	200,000	210,978	213,826	4,859
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/14/2018	3.750%	2.01	250,000	253,878	256,078	5,105
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.17	25,000	25,808	25,958	560
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	4.125%	2.18	125,000	129,438	132,551	2,822
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.22	700,000	727,615	742,418	16,175
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	2.16	100,000	98,993	101,344	2,139
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.22	50,000	49,164	50,527	1,093
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.30	170,000	166,376	169,711	3,830
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	2.31	325,000	321,185	331,136	7,432
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.34	240,000	233,172	239,719	5,461
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	1.89	150,000	149,738	151,146	2,832
FEDERAL HOME LN MTG CORP MULTICLASS	NR	06/25/2020	3.531%	2.54	100,000	102,261	106,188	2,598
FEDERAL HOME LN MTG CORP	AA+	06/13/2018	4.875%	1.92	115,000	116,412	117,191	2,235
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	2.08	500,000	509,940	517,065	10,591
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.05	50,000	49,809	50,633	1,023
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.13	50,000	49,269	50,259	1,051
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	05/01/2018	3.840%	2.88	250,000	249,708	266,641	7,192
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	2.680%	2.29	465,648	466,966	485,002	10,694
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	5.000%	2.28	29,343	29,763	30,929	679
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	2.92	203,340	209,229	225,581	6,109
INTERNATIONAL BUSINESS MACHS SR GLBL	A+	02/06/2018	1.581%	1.24	100,000	100,001	99,977	1,235
IOWA FIN AUTH REV ST REVOLVING FD	AAA	08/01/2018	3.280%	1.77	25,000	25,188	25,428	445
MICROSOFT CORP NT	AAA	06/01/2019	4.200%	2.19	100,000	102,689	103,501	2,244
MONONA WIS TAXABLE PROM NTS 2015B	N.A.	06/01/2020	3.250%	2.96	100,000	100,641	101,231	2,982
NEW YORK N Y GOBDS 2011 C TAXABLE	AA	10/01/2018	3.480%	2.03	100,000	101,147	101,510	2,056
OHIO ST GO BDS 2009 C TAXABLE	AA+	03/01/2018	4.371%	1.41	100,000	100,213	101,426	1,417
PASADENA CALIF PUB FING AUTH L LEASE	AA	03/01/2018	4.224%	1.37	25,000	25,038	25,249	342
TENNESSEE VALLEY AUTH PWR BD 2008 B	AA+	04/01/2018	4.500%	1.24	500,000	502,350	508,335	6,214
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.86	100,000	99,438	100,000	1,852
MONTGOMERY CNTY MD CTF PARTN COPS	N.A.	11/01/2019	1.200%	2.44	100,000	97,870	100,039	2,384
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.45	100,000	99,848	104,081	2,443
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	2.59	100,000	99,650	102,565	2,580
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	2.48	100,000	100,093	103,208	2,482
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	2.76	100,000	96,625	100,111	2,662
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	2.70	225,000	225,347	234,695	6,078
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.45	165,000	170,516	175,822	4,176
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	2.53	260,000	253,666	260,000	6,415
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	2.23	260,000	256,233	260,000	5,706
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.40	340,000	332,829	340,000	7,978
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.57	80,000	78,374	80,000	2,015
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	2.67	120,000	116,972	120,000	3,123
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.33	80,000	78,628	80,000	1,830
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.31	220,000	217,028	220,000	5,007

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Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
FEDERAL HOME LN MTG CORP	AA+	10/26/2021	2.000%	2.53	220,000	214,601	220,000	5,421
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	1.250%	2.59	220,000	219,591	219,505	5,696
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.20	290,000	284,806	288,697	6,277
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.41	140,000	134,847	138,274	3,252
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.44	310,000	309,327	316,910	7,554
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.45	610,000	600,039	607,908	14,677
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.25	170,000	168,045	170,779	3,779
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.35	170,000	164,162	168,033	3,863
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.41	170,000	163,219	167,534	3,929
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2022	1.900%	2.52	165,000	160,337	165,710	4,045
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/03/2022	1.900%	2.53	165,000	160,283	165,427	4,060
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.48	170,000	165,840	170,636	4,111
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2022	1.850%	2.53	130,000	126,211	131,022	3,194
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.42	120,000	118,109	120,000	2,856
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	2.69	220,000	214,940	220,000	5,790
FEDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.53	120,000	117,556	120,000	2,968
BANK AMER CORP FR	A-	05/13/2021	5.000%	2.73	75,000	80,164	81,361	2,188
CONSTELLATION BRANDS INC SR GLBL NT	BBB-	11/06/2020	2.250%	2.77	25,000	24,647	24,942	683
HOME DEPOT INC SR GLBL NT	A	04/01/2021	2.000%	2.52	80,000	78,722	79,838	1,982
LORILLARD TOB CO SR NT	BBB	05/01/2020	6.875%	3.00	25,000	27,226	27,666	815
MORGAN STANLEY SR NT	A-	01/27/2020	2.650%	2.63	80,000	79,985	80,758	2,103
ORACLE CORP SR GLBL	A+	05/15/2022	2.500%	2.78	80,000	79,133	80,090	2,198
PHILIP MORRIS INTL INC SR NT	A	03/26/2020	4.500%	2.52	25,000	26,021	26,443	656
STARBUCKS CORP SR GLBL	A-	02/04/2021	2.100%	2.54	80,000	78,973	79,979	2,008
3M CO FR	A+	06/26/2022	2.000%	2.68	100,000	97,008	98,822	2,604
FEDERAL HOME LN MTG CORP	AA+	12/29/2021	2.250%	2.55	120,000	118,300	120,000	3,012
FEDERAL HOME LOAN BKS CONS BDS	AA+	10/26/2022	2.280%	2.68	100,000	99,553	99,600	2,665
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/11/2020	1.620%	2.43	400,000	392,560	393,841	9,535
FEDERAL HOME LOAN BKS CONS BDS	AA+	11/29/2021	1.875%	2.42	300,000	293,958	295,479	7,126
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/15/2021	2.200%	2.58	300,000	296,763	298,050	7,662
FEDERAL NATL MTG ASSN	AA+	11/26/2019	1.750%	2.15	300,000	297,897	298,370	6,390
CASH & EQUIVALENTS	-	-	-	1.22	-	1,024,696	1,024,696	12,501
Capital Improvement Program Reserve Total						\$ 16,628,520	\$ 16,931,333	\$ 367,783

Stage 2 Capacity Reserve

BERKSHIRE HATHAWAY FIN CORP GTD SR	AA	05/15/2018	5.400%	1.89	100,000	101,019	101,949	1,908
CEDAR PARK TEX CTF S OBLIG TAXABLE	AA	08/15/2018	5.280%	2.53	50,000	50,850	51,654	1,284
CISCO SYS INC SR GLBL NT	A+	01/15/2020	4.450%	2.33	75,000	77,971	78,746	1,820
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	2.61	22,263	22,617	23,474	590
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	11/01/2020	4.500%	2.45	25,379	25,658	26,458	629
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.16	100,000	100,410	102,463	2,170
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2020	1.375%	2.34	100,000	97,216	101,220	2,271
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/29/2018	0.875%	1.81	100,000	99,714	100,035	1,800
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/15/2018	4.500%	1.53	100,000	100,968	101,549	1,541
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/28/2018	4.780%	1.93	55,000	56,094	56,813	1,080
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.30	60,000	61,003	62,506	1,404
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	2.10	200,000	198,408	200,000	4,175
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/09/2018	1.598%	1.40	50,000	50,022	49,959	698
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	2.14	50,000	52,261	53,548	1,119
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/09/2018	4.625%	1.80	75,000	75,261	76,347	1,352
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.17	100,000	103,231	103,831	2,241
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.22	125,000	129,931	132,474	2,888
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	2.16	100,000	98,993	101,344	2,139
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.22	100,000	98,327	101,053	2,187
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.30	100,000	97,868	100,893	2,253
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	2.31	175,000	172,946	178,304	4,002
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.34	180,000	174,879	180,244	4,096
FEDERAL NATL MTG ASSN	AA+	01/14/2019	3.275%	2.06	100,000	101,230	101,715	2,084
FEDERAL HOME LN MTG CORP MULTICLASS	NR	10/25/2020	2.788%	2.41	51,182	51,332	52,461	1,237
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	2.08	250,000	254,970	258,487	5,296
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.05	100,000	99,618	101,266	2,046
FEDERAL HOME LN MTG CORP	AA+	08/01/2019	1.250%	2.10	100,000	98,750	100,881	2,078
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.13	100,000	98,537	100,517	2,102
FEDERAL HOME LN MTG CORP	AA+	04/09/2018	0.750%	1.40	100,000	99,868	99,836	1,398
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	05/01/2018	3.840%	2.88	200,000	199,766	213,313	5,753
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2020	4.000%	2.53	56,203	57,537	58,890	1,456
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	2.92	170,075	175,001	188,677	5,110
GARNER N C GO PUB IMPT BDS TAXABLE	N.A.	02/01/2018	3.050%	-	50,000	50,000	50,397	-

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Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
GENERAL ELEC CAP CORP MTN	A	08/07/2018	1.662%	1.96	100,000	100,052	99,695	1,963
IOWA FIN AUTH REV ST REVOLVING FD	AAA	08/01/2018	3.280%	1.77	100,000	100,751	101,713	1,780
JPMORGAN CHASE & CO SR NT	A-	03/01/2021	2.550%	2.74	50,000	49,721	50,944	1,360
LANCASTER CNTY NEB SCH DIST NO SCH	AA	01/15/2021	4.550%	3.19	50,000	52,240	53,728	1,664
NORFOLK VA GO CAP IMPT BDS 2010 B	AA	03/01/2019	4.650%	2.43	100,000	102,269	103,952	2,481
NORTH ST PAUL MAPLEWOOD MINN I GO	N.A.	02/01/2018	5.000%	-	100,000	100,000	101,595	-
TENNESSEE VALLEY AUTH PWR BD 2008 B	AA+	04/01/2018	4.500%	1.24	200,000	200,940	203,274	2,486
U S BANCORP MTNS BK ENT FR	AA-	11/15/2018	1.950%	2.02	100,000	99,912	100,101	2,014
UNIVERSITY CALIF REV FS FOR PREV GEN	AA	07/01/2019	1.796%	2.38	50,000	49,697	49,784	1,181
XTO ENERGY INC SR NT	AA+	06/15/2018	5.500%	1.58	100,000	101,304	102,052	1,599
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.86	200,000	198,876	200,000	3,703
MONTGOMERY CNTY MD CTFS PARTN COPS	N.A.	11/01/2019	1.200%	2.44	100,000	97,870	100,039	2,384
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	2.59	150,000	149,475	153,848	3,870
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	2.48	150,000	150,140	154,812	3,723
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	2.76	100,000	96,625	100,111	2,662
FEDERAL HOME LN MTG CORP	AA+	08/25/2021	1.375%	2.52	90,000	87,494	90,000	2,207
METRO WASTEWTR RECLAMATION DIS REV	AA+	04/01/2019	4.718%	2.07	100,000	102,893	105,398	2,126
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.45	55,000	56,839	58,607	1,392
FEDERAL HOME LN MTG CORP	AA+	03/30/2021	1.500%	2.38	60,000	58,061	60,000	1,381
FEDERAL HOME LN MTG CORP	AA+	09/30/2021	1.050%	3.06	100,000	96,958	99,900	2,964
FEDERAL NATL MTG ASSN	AA+	09/30/2019	1.250%	2.20	60,000	59,056	59,985	1,302
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	2.53	60,000	58,538	60,000	1,480
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.40	100,000	97,891	100,000	2,346
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.57	80,000	78,374	80,000	2,015
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	2.67	60,000	58,486	60,000	1,562
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.33	40,000	39,314	40,000	915
FEDERAL HOME LN MTG CORP	AA+	10/26/2021	2.000%	2.53	150,000	146,319	150,000	3,696
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	1.250%	2.59	150,000	149,721	149,663	3,884
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.20	260,000	255,343	258,975	5,628
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.41	80,000	77,055	79,014	1,859
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.44	120,000	119,740	122,675	2,924
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.45	220,000	216,407	219,381	5,293
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.25	260,000	257,010	261,498	5,780
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.35	260,000	251,072	256,992	5,908
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.41	260,000	249,629	256,229	6,009
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2022	1.900%	2.52	290,000	281,805	291,247	7,110
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/03/2022	1.900%	2.53	290,000	281,709	290,751	7,136
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.48	300,000	292,659	301,122	7,255
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2022	1.850%	2.53	85,000	82,522	85,668	2,089
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.42	180,000	177,163	180,000	4,284
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	2.69	280,000	273,560	280,000	7,370
FEDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.53	180,000	176,333	180,000	4,452
HOME DEPOT INC SR GLBL NT	A	04/01/2021	2.000%	2.52	60,000	59,042	59,879	1,487
ORACLE CORP SR GLBL	A+	05/15/2022	2.500%	2.78	120,000	118,699	120,134	3,296
PHILIP MORRIS INTL INC SR NT	A	03/26/2020	4.500%	2.52	55,000	57,246	58,174	1,443
STARBUCKS CORP SR GLBL	A-	02/04/2021	2.100%	2.54	60,000	59,230	59,984	1,506
FEDERAL HOME LN MTG CORP	AA-	12/29/2021	2.250%	2.55	80,000	78,866	80,000	2,008
FEDERAL HOME LOAN BKS CONS BDS	AA+	11/29/2021	1.875%	2.42	120,000	117,583	118,191	2,850
CASH & EQUIVALENTS	-	-	-	1.22	-	154,352	154,352	1,883
Stage 2 Capacity Reserve Total						\$ 9,709,095	\$ 9,914,767	\$ 219,917
Subtotal, Bank of the West						\$ 29,822,466	\$ 30,392,523	\$ 664,604

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Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
California Local Agency Investment Fund		LAIF	-	1.350		\$ 744,611	\$ 744,611	10,052
TOTAL UNRESTRICTED INVESTMENTS						\$ 30,567,078	\$ 31,137,135	\$ 674,656
Bank of New York (Trustee)								
2009 Reserve Account - Federal National Mortgage Assn 3136G3Q73	Aaa	7/26/2019	1.150%	1.17		4,713,606	4,780,000	55,149
2009 Reserve Account - BMW BK North Amer Salt Lake 05580ACK8	Aa	7/24/2019	2.000%	2.01		149,373	150,000	3,002
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS	-	-	0.000%	-		130,091	130,091	-
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS	-	-	0.000%	-		62,656	62,656	-
2009 Revenue FD Account - Morgan Stanley Treas Sec X9USDMORS	-	-	0.000%	-		1,351	1,351	-
2014 Revenue Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	-	0.000%	-		425	425	-
2014 Revenue Account - Cash	-	-	0.000%	-		5	5	-
2014 Interest Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	-	0.000%	-		13	13	-
2014 Principal Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	-	0.000%	-		7	7	-
2014 Project Account - Cash	-	-	0.000%	-		5,193	5,193	-
2014 COI Account - Cash	-	-	0.000%	-		2	2	-
2015 Project Account - Cash	-	-	0.000%	-		753	753	-
2015 Revenue Account - JP Morgan Prime MMTK Instl X9USDJPMP	-	-	0.000%	-		163	163	-
2015 Revenue Account - Cash	-	-	0.000%	-		2	2	-
2009 Escrow - Resolution Funding Corp Interest Strip 76116EFS4	Aaa	7/15/2018	0.000%	-		335,130	329,183	-
2009 Escrow - United States Treasury 912828VQ0	Aaa	7/31/2018	1.375%	1.38		262,611	265,978	3,624
2009 Escrow - United States Treasury 912828B33	Aaa	1/31/2019	1.500%	1.51		600,293	610,349	9,064
2009 Escrow - Tunisia Government Aid Bonds 066716AG6	Aaa	7/16/2019	1.686%	1.73		39,420,028	40,944,692	681,966
2009 Escrow - Cash	-	-	0.000%	-		951,441	951,441	-
Subtotal, Bank of New York (Trustee)						\$ 46,633,142	\$ 48,232,304	\$ 752,807
Less Amounts held in Escrow for 2009 Bond Defeasance						\$ (41,569,503)	\$ (43,101,643)	\$ (694,655)
Net Total, Bank of New York (Trustee)						\$ 5,063,639	\$ 5,130,661	\$ 58,152
Uninvested Operating Cash						2,378,382	2,378,382	-
TOTAL CASH & INVESTMENTS, UNRESTRICTED AND WITH TRUSTEE						\$ 38,009,099	\$ 38,646,178	732,808
						Weighted Average Yield to Maturity %		1.93%

Summary by Investment Type:	Market Value
US Treasuries	\$ 243,533
Agencies	26,957,022
Commercial Paper / Corporate Bonds	3,036,376
Municipal Bonds / Notes	3,376,708
Money Market / Certificates of Deposit	3,650,848
Local Agency Investment Fund	744,611
TOTAL	\$ 38,009,099
Summary by Purpose / Restriction Level	Market Value
Working Capital	\$ 3,122,993
Operations & Capital Budget Reserve	3,484,850
Capital Improvement Program Reserve	16,628,520
Stage 2 Capacity Reserve	9,709,095
Debt Reserve	5,062,721
Debt Proceeds	918
TOTAL	\$ 38,009,099
Summary by Liquidity:	Market Value
0-1 years	\$ 9,670,410
1-2 years	11,139,132
2-3 years	7,406,910
3-5 years	9,792,647
TOTAL	\$ 38,009,099

SVCW has sufficient liquid resources available to meet expenditure requirements per SVCW's investment policy.
All SVCW investments are in compliance with SVCW's Investment Policy.

M. Anderson

FINANCE STATUS REPORT**ISSUE**

Review of the Operating Fund Financial Update as of December 31, 2017. This Update is for the Second Quarter of the 2017-18 Fiscal Year.

DISCUSSION

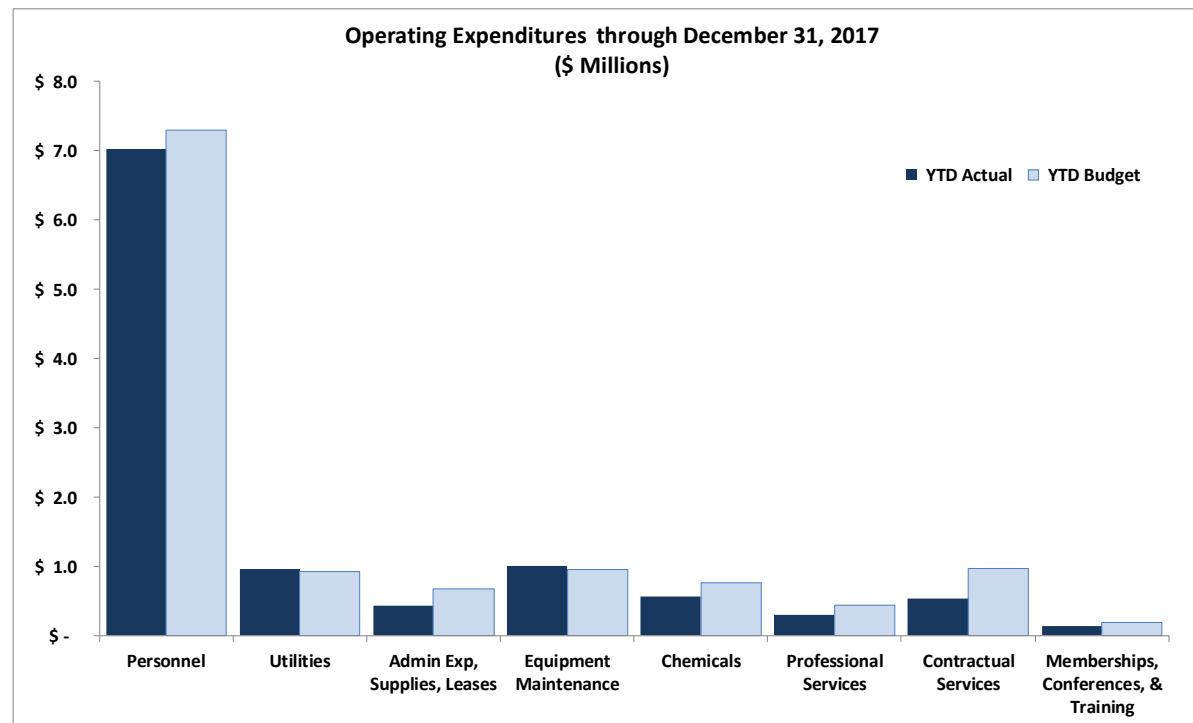
Staff presents to the Commission a financial update each quarter of the fiscal year. The below points highlight key findings found in the attached summary table.

Revenue: Year to date, actual revenue exceeded budget by \$375 thousand (3.2%). All Member contributions were paid in full and on time. SVCW received \$273 thousand PG&E grant revenue associated with cogeneration early in the year, while it was budgeted for later in the year. Received \$65 thousand more Environmental Services revenue than anticipated from leachate disposal. Additionally, \$14 thousand of Environmental Services revenue was billed sooner than budgeted.

Expense: Through the second quarter operating expenses were \$10.9 million, or 10% less than the \$12.2 million year-to-date budget. Notable variances include:

- Personnel expense was \$257 thousand (3.5%) below budget due to a combination of vacancies in the Laboratory and Operations Divisions. Also had lower-than-expected health insurance costs.
- Utilities expense was \$38 thousand (4.2%) more than budget, due to delays in installing new, more efficient, equipment and incurred more electricity demand than expected during peak rate periods when Cogen maintenance was performed.
- Admin Expense, Supplies, and Leases were \$241 thousand (35.6%) less than budgeted due to timing of NPDES permits and BACWA membership. Additionally, \$58 thousand was budgeted as Admin Expense but charged to Memberships.
- Equipment Maintenance costs were \$47 thousand (31.6%) over budget, largely because of purchasing submersible pumps needed to resolve inadequate discharge head after re-piping was done at influent screens.
- Chemicals expense was \$192 thousand (25.5%) less than budget as polymer costs associated with new equipment installations were not yet incurred.
- Professional Services expense was \$131 thousand (30.3%) less than budget due to timing issues involving regulatory permits, engineering services, HR policy legal services, and audit and actuary services.
- Contractual Services expense was \$436 thousand (45.3%) less than budgeted related to delays in solids disposal, tank cleaning expenses, network support agreement not yet incurred, and engineering consulting.
- Memberships, Conferences, & Training expense was \$54 thousand (28.8%) more than budget. A Bay Area Clean Water Association membership was paid at the beginning of the year rather than at the end of the fiscal year as budgeted.

SVCW Operating Revenue and Expenditures versus Budget - Through December 31, 2017					
Description	YTD Actual	YTD Budget	\$ Better/ (Worse)	% Better/ (Worse)	Comment
Revenue:	\$ 12,139,486	\$ 11,764,486	\$ 375,000	3.2%	<i>PG&E grant revenue associated with cogeneration received sooner than budgeted (\$273K). Leachate discharge revenue increased due to strength of measured influent (\$30K), plus timing of quarterly billing (\$35K). Environmental services revenue billed sooner than budgeted (\$14K). Workers' compensation dividends received for strong safety performance (\$11K).</i>
Expenditures:					
Personnel	\$ 7,033,190	\$ 7,291,166	\$ 257,975	3.5%	<i>Operations and Laboratory vacancies during first quarter. Health insurance costs lower than budgeted.</i>
Utilities	956,549	917,612	(38,937)	(4.2%)	<i>\$30K of savings not achieved due to delay in rotary drum thickening equipment installation. Also experienced higher summer peak rates/volumes versus budget (may offset in Winter). Finally, \$20K of equipment rental was mistakenly charged to utilities and will be corrected in the second quarter.</i>
Admin Exp, Supplies, Leases	435,378	676,550	241,172	35.6%	<i>Timing of NPDES permits and BACWA membership (\$200K). Equipment rental miscoded to utilities (\$20K). Several purchases of IT equipment and software not yet incurred (\$60K).</i>
Equipment Maintenance	1,000,443	952,760	(47,683)	(5.0%)	<i>Purchased replacement submersible pumps for plant storm drain system to resolve inadequate discharge head subsequent to influent screen repiping.</i>
Chemicals	561,803	754,242	192,439	25.5%	<i>\$35K of additional polymer costs not incurred (associated with new rotary drum thickening equipment now scheduled to be installed in the second quarter). Additionally, vendor undercharged \$3.5K for Ferric Chloride, to be resolved in second quarter.</i>
Professional Services	302,951	434,400	131,449	30.3%	<i>Regulatory permits, Engineering services, HR policy legal services, audit and actuarial services...budgeted but not yet not incurred to date. Anticipate spending will happen in 2nd half of year.</i>
Contractual Services	527,495	964,254	436,759	45.3%	<i>Biosolids handling solution not yet fully online and good drying bed performance reduced cost of hauling (combined, \$250K). Timing of scheduling tank cleaning services, contractor training and consulting services (\$67K). Info Services network support agreement not yet incurred (\$78K).</i>
Memberships, Conferences, & Training	133,327	187,348	54,021	28.8%	<i>\$58K BACWA Membership expected at end of fiscal year, but paid in first half of the fiscal year.</i>
TOTAL Expenditures:	\$ 10,951,136	\$ 12,178,332	\$ 1,227,196	10.1%	



**ENGINEERING REPORT: FEBRUARY 2018
CAPITAL IMPROVEMENT PROGRAM IMPLEMENTATION**

Front of Plant Site Civil Project (9238): Prepare Front of Plant site for RESCU Program by stabilizing the soil and providing roads, parking, and utilities.

This is the first construction project of the RESCU program. Freyer and Laureta is the design engineer for this project, which includes lime stabilization of the soil and grading at the front of the plant. It also adds a new access road and employee parking, lighting, and conduits for future utilities to support the construction.

Planned Commission Actions: Accept Project/File Notice of Completion – March 2018

New 12kV Switchgear Project (9807): Construct new 12kV switchgear equipment and enclosure.

On October 5, 2017 the Commission approved Task Orders with Beecher Engineering and Kennedy Jenks to begin the design for a new 12kV Switchgear. The new 12kV equipment is needed to supply power to the new front of plant facilities, the equipment also provides SVCW the ability to export power back to the utility. The project was publicly advertised for bids on February 5 and bids received on March 1.

Planned Commission Actions: Award Construction Contract – March 2018

Primary Sedimentation Tank Rehabilitation Project (CIP #9080, 9128) Rehabilitate Primary Sedimentation tanks with new equipment and controls.

On August 13, 2015, the Commission approved a contract with ERS Industrial Services to rehabilitate the Primary Sedimentation Tanks. The four Primary Sedimentation Tanks were constructed as part of the original plant in 1980. These tanks provide the first stage of treatment to the incoming wastewater. In the tanks' interiors, there are longitudinal collectors that run the entire length of the tanks, cross collectors that run at the head-end of the tanks across the width, each of the collector mechanisms having motor drives on the top of the tanks. The collector mechanisms scrape along the top and bottom of the tanks to remove the solids.

The Primary Sedimentation Rehabilitation Project replaces all of the existing mechanisms inside of the tanks including their associated motor drives and concrete anchoring systems, the concrete was repaired as necessary, a coating system was applied above the low-level water line and monitoring sensors were installed with associated instrumentation and electrical work.

Planned Commission Actions: Accept Project and File Notice of Completion – April 2018

Solids Handling Building HVAC Duct Repair (9169): Replacement of Damaged HVAC Ducts.

On September 14, 2017 the Commission approved a contract with Blocka Construction to replace the damaged SHB Ductwork. Blocka Construction is onsite replacing the ductwork. Installation of the new duct work began in late December and work is progressing well.

Planned Commission Actions: Accept Project and File Notice of Completion – May 2018

Wastewater Treatment Plant Improvements Phase 2 (9169, 9173, 9186, 9189, 9197, 9220, 9224): Rehabilitation and/or replacement of seven treatment plant mechanical processes.

SVCW received and evaluated two Design-Build (DB) firms in accordance with criteria outlined in the Request for Qualifications. Both firms were deemed qualified and received Requests for Proposals (RFP). The RFP's were issued on December 7, 2017 and were due on February 20, 2018. Staff will interview both DB firms on March 13, 2018 and make a recommendation for contract award at the April Commission meeting. The RFP included Procurement Documents by which the Respondents will use to provide a lump sum price to complete the entire project (design and construction).

Planned Commission Actions: Award Fixed Price Design-Build Contract – April 2018

Emergency Repair of the 12kV Vault (9808): Respond to emergency condition of existing 12 kV service.

On September 14, 2017 the Commission approved the emergency expenditure of funds for the repair of essential facilities. On November 9, 2017 the Commission approved a total budget amount of \$2,347,412 to perform work on a time and material basis to resolve the 12kV failing electrical vault. Beecher Engineering, Power Engineering and DW Nicholson designed a permanent repair to route the 12 kV conduits that supply power to the Solids Handling Building (SHB) and ultimately to all plant equipment and processes.

Temporary electrical power is currently supplying electricity to three main Plant transformers. A new concrete vault was placed on the main building side of the tunnel and is incorporated into the tunnel structure. A new conduit run was constructed along the building to the new vault at the tunnel. Power Engineering completed excavation under the SHB by the transformers and constructed a new duct bank structure under the transformers to connect the 12kV power lines to the new vault at the tunnel. The underground tunnel is pile supported and will offer the most stable pathway between the buildings to ensure the new conduits and vault will not subside in the future.

Planned Commission Actions: Accept Project and File Notice of Completion - TBD

Gravity Pipeline (6008) and Front of Plant Projects (6013, 6014, 9160): Deliver these two RESCU projects using a Progressive Design Build delivery method.

On October 5, 2017 the Commission awarded a contract to Barnard/Bessac Joint Venture (BBJV) for the Stage 1 Progressive Design Build contract on the Gravity Pipeline project. On November 9, 2017 the Commission awarded a contract to Shea/Parsons Joint Venture for the Stage 1 Progressive Design Build contract on the Front of Plant project.

The JV teams, SVCW staff and consultants meet multiple times a week to coordinate and discuss proposed designs, O&M options, construction options, and costs.

Work is proceeding well, with design decisions being made that will allow construction to be initiated later this summer/early fall. It is anticipated that there will be Stage 2 packages for both projects ready for the July Commission meeting. For the Gravity Pipeline project, the early Stage 2 package will cover underground work in support of the four shafts. For the Front of Plant project, the early Stage 2 package will cover underground work consisting of piles and support of Receiving Lift Station excavation.

Planned Commission Actions: Approve Stage 2A Design Build Contracts – July 2018

SVCW Capital Improvement Program
Actual Expenditure vs. Plan
Through January 31, 2018

Project Phase	Project Count	2017 CIP Update	Actual Spent thru January 2018	\$ Unspent/ Remaining	% Unspent/ Remaining
Completed Prior to Oct 2017 CIP Update	101	\$ 137,234,509	\$ 137,258,228	N/A	N/A
Completed Post Oct 2017 CIP Update	3	22,629,960	23,344,537	(714,577)	-3.2%
In Construction	27	75,587,626	50,936,993	24,650,634	32.6%
Planning & Design	41	513,864,043	39,330,053	474,533,989	92.3%
Other	37	84,349,902	5,489,675	78,860,227	93.5%
TOTAL	209	\$ 833,666,040	\$ 256,359,486	\$ 577,306,554	69.2%

**SVCW Capital Improvement Program
CIP Project Status - COMPLETED Prior to October 2017**

28-Nov-17

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	2015 CIP Update (2015 \$s)	2017 CIP Update (2017 \$s)	Actual Spent thru January 2018
Complete	6001	48-inch Force Main Reliability Improvement	Replace the entire length of 48-inch diameter section of force main from RCPS to SCPS. This project incorporated CIP #6005 which was deleted in the CIP Update.	\$ 2,539,400	\$ 43,060,000	\$ 40,000,000	\$ 41,204,050	\$ 41,204,050
Complete	7010	Pump Stations Preliminary Design and CEQA	Prepare preliminary design (up to 30% design) for all pump station work including support for CEQA and SRF loan application	-	3,000,000	3,128,769	\$ 3,083,722	3,085,902
Complete	7013	Pump Stations Secondary Communications	Provide secondary communications for remote monitoring and control	-	-	51,900	\$ 33,289	33,289
Complete	8001	Central Data Acquisition Unit PLC System Upgrade	Central Data Acquisition Unit PLC System Upgrade; Replacement for Automation Program.	127,700	32,592	32,592	\$ 25,220	25,220
Complete	8004	Install SCADA Servers	Purchase and install and program independent servers for SCADA use only.	170,200	163,002	91,040	\$ 91,040	91,040
Complete	8005	Install MCC PLC	Installation of MCC PLC in support of the Automation Program	214,900	209,226	209,225	\$ 202,370	202,370
Complete	8017	Activated Sludge Process Automation (Aeration and Secondary Clarifiers).	Combine automation projects for processes related to Activated Sludge; this project is complete. Automates the activated sludge process.	4,411,400	8,428,965	7,637,390	\$ 7,636,947	7,636,947
Complete	8022	SCADA Process Graphics on Information Management System	Enable SCADA view and data across IMS Network to allow data views from remote locations (offsite)	103,500	107,041	62,936	\$ 62,936	62,936
Complete	8026	Septic System (Grease Receiving) Auto Controls and Level Measurement	Automatic controls tied into SCADA system for monitoring grease receiving station operation. Expenditures charged to CIP #9021	47,600	19,019	-	\$ 8,003	24,094
Complete	9006	Purchase Integrated Tool Vehicle	Eliminate need for rental. Purchase vehicle to facilitate access to decks with large equipment	104,000	79,502	81,992	\$ 81,992	81,992
Complete	9011	Portable Trash Pump	Replaces need to rent portable pump in response to flooding, overflows, and routine dewatering. Trailer-mounted, diesel driven 6" pump. Project complete.	-	-	37,859	\$ 37,859	37,859
Complete	9012	Digester #3 Rehabilitation and Upgrade	Repair digester for use as a primary digester. Clean digester, repair dome and skirt, slip-line bottom mix line.	1,811,400	3,415,426	4,024,258	\$ 4,024,258	4,024,258
Complete	9013	Waste Gas Burner Rehabilitation	Rehabilitate existing burners, including pilot and air flow monitoring equipment. Air permit required. Complete before re-roofing SHB	999,800	649,231	726,141	\$ 725,594	725,594
Complete	9016	High Pressure Air Piping and Instrument Air	Replace galvanized piping throughout the Plant used for compressed air delivery.	273,000	474,200	468,552	\$ 468,552	468,552
Complete	9018	Recycled Water For In-Plant Use	Utilize recycled water for sprinkler system in new administration building as well as other in-plant uses.	807,300	556,934	585,790	\$ 585,790	585,790
Complete	9019	Bisulfite Injector System Improvements	Alternate dechlorination injection system for reliability improvement.	225,900	16,740	16,740	\$ 6,231	6,231
Complete	9021	Grease Receiving Station Reliability Improvements and Odor Control	Convert station to two pits, allowing for expanded volume storage. Improvements to controls, pumping, mixing.	320,200	1,698,002	1,730,417	\$ 1,730,417	1,730,417
Complete	9022	Existing Freight Elevator Modernization	Bring passenger and freight elevators up to modern standards; replaces controls. Passenger elevator deleted from this project and included with Administration/Plant Control Building project.	496,700	1,080,137	1,092,137	\$ 1,092,137	1,092,137
Complete	9028	Laboratory Building Roof Rehabilitation	Rehabilitate laboratory building roof.	23,400	80,000	106,978	\$ 106,978	106,978
Complete	9029	Solids Handling Building Control Room HVAC/Scrubber	Air scrubbing to protect sensitive equipment, includes new breaker in (E) MCC, disconnect switch, conduit & wire for air handling unit.	473,400	349,334	390,681	\$ 390,764	390,764
Complete	9030	Secondary Clarifier Collector Drive Rehabilitation	Project complete. Work done in conjunction with	251,200	435,000	471,182	\$ 471,182	471,182
Complete	9035	Effluent Pipe Access Hatch	Install an access hatch to the effluent pipe to facilitate inspection, cleaning, and repairs.	215,300	215,300	123,508	\$ 123,508	123,508
Complete	9036	Primary Sludge Piping Rehabilitation	Combined with Bilge Pit and Pumping project (221)	136,300	541,152	559,131	\$ 559,131	559,131
Complete	9040	Digester #2 Cleaning	Clean D2; 1 digester every 5 years	269,100	162,630	162,630	\$ 162,630	162,630
Complete	9075	IMS System Equipment Replacement	Purchase replacement and additional servers for overall Plant computer information management system.	572,800	572,800	67,517	\$ 52,474	52,474
Complete	9095	Digester #2 Cover Repair	Scheduled repair and recoat of D2; expect to replace 15-20 years out	788,200	3,000,000	3,303,733	\$ 3,303,733	3,303,733
Complete	9099	Solids Handling Building HVAC Air Scrubber-Implementation	Implement odor and corrosion control for entire SHB	1,673,100	1,911,100	2,152,400	\$ 2,340,918	2,340,918
Complete	9101	Fresh Water Lagoon Cleaning	Clean fresh water lagoon to provide necessary volume for stormwater runoff.	1,123,200	711,618	795,845	\$ 795,845	795,845
Complete	9104	Septage Receiving Area Odor Control	2nd grease pump, in-line grinder and local control panel. Odor control pulls negative pressure in pit to eliminate foul odors. Delete and combine with 9021.	1,115,400	71,602	71,602	\$ 71,602	71,602
Complete	9106	Laboratory Information Management System (LIMS)	Plan and proceed with implementation of LIMS for laboratory data and process information.	490,100	156,939	116,083	\$ 152,667	152,667
Complete	9125	Plant Service Road Resurfacing- Phase 1	Phase 1 of overall Plant resurfacing project; repairs or expansion of paved areas in anticipation of upcoming construction activities. Project complete. Transfer funds from 9131 to cover coverage.	182,200	448,890	734,796	\$ 734,796	734,796
Complete	9154	Cogeneration Engine Replacement	Upgrade cogeneration engine to enable full utilization of biogas produced.	7,227,900	10,005,000	13,500,000	\$ 17,554,800	17,554,800
Complete	9155	Natural Gas to Plant	Pipe natural gas from front entrance to enable its use as fuel blending for the cogeneration engines and in administration building.	181,500	401,042	419,640	\$ 419,640	419,640
Complete	9156	Administration and Plant Control Building Replacement	Build a new administration and control building at existing location.	11,408,900	20,000,000	21,247,355	\$ 21,236,430	21,236,430

**SVCW Capital Improvement Program
CIP Project Status - COMPLETED Prior to October 2017**

28-Nov-17

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	2015 CIP Update (2015 \$s)	2017 CIP Update (2017 \$s)	Actual Spent thru January 2018
Complete	9157	Solids Handling Building Roof Replacement	Replace the roof on SHB; leaks occurring.	226,200	70,203	70,203	\$ 70,203	70,203
Complete	9179	Pretreatment Program Sample Room	Provide a wet lab receiving area for source control to prepare samples prior to analysis and also storage of equipment.	-	389,000	575,000	\$ 633,142	633,142
Complete	9180	Maintenance Shop Reconfiguration	Reconfigure maintenance spaces that have been displaced by other projects.	-	1,372,800	228,038	\$ 280,541	280,541
Complete	9183	Stage 1 Screening at Plant Influent	Construct a screening facility at influent end of plant. Originally to be funded partially via CIP and partially from Operating budget in approximately 25/75 split.	-	858,000	4,844,000	\$ 4,216,719	4,224,826
Complete	9202	DMF Valve Replacement	Replace old valves in the DMF gallery. Valves are high in the air and scaffolding will be required for access.	-	915,749	962,654	\$ 997,139	997,139
Complete	9208	Solids Handling Building Demolition and Improvements - Phase II	Ready the SHB for new Cogeneration and dewatering equipment, and seismic bracing and column repairs. Do project in conjunction with CIP #9099.	-	1,900,000	2,759,901	\$ 2,772,117	2,772,117
Complete	9216	3W System Improvements	Make improvements to Plant Water system to assure adequate flow to all processes	-	171,600	314,600	\$ 314,747	312,088
Complete	9127	PEC & PST 1 & 2 Protective Coatings	Do SSC #3 with CIP #9014; also replace SSC drive.	-	-	946,092	\$ 946,092	946,092
Complete	8032	Final Effluent Pumping Control System (FEP) Upgrade	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not up to latest Automation Standards and best practices dictate decoupling controls from other distinct process systems for reliability. Add new SCADA View at existing FEP Platform. Includes programming needed to decouple existing scheme and enhance new controls. Construction completed as a CCO to ASA and CCO funds deleted from this project.	-	179,025	179,025	\$ 179,025	179,025
Complete	8033	Dechlorination Control System Upgrade	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not up to latest Automation Standards and best practices dictate decoupling controls from other distinct process systems for reliability. Move new Dechlor Control Panel and the SCADA View above flood line to the newly provided platform at RAS/WAS gallery. Includes programming needed to decouple existing scheme and enhance new controls. Construction completed as a CCO to ASA and CCO funds deleted from this project.	-	179,026	179,026	\$ 179,026	179,026
Complete	8034	Tertiary Filter Feed Pump Control System Upgrade	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not up to latest Automation Standards and, best practices dictate decoupling controls from other distinct process systems for reliability. Add new SCADA View to the existing platform. Includes programming needed to decouple existing scheme and enhance new controls. Construction completed as a CCO to ASA and CCO funds deleted from this project.	-	224,130	224,130	\$ 224,130	224,130
Complete	8035	Chlorination Control System Upgrade	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not up to latest Automation Standards and best practices dictate decoupling controls from other distinct process systems for reliability. Includes programming needed to decouple existing scheme and enhance new controls. Construction completed as a CCO to ASA and CCO funds deleted from this project.	-	185,478	185,479	\$ 185,479	185,479
Complete	9007	Industrial Roll-up Doors for Warehouse	Combine with CIP #9132. Project complete	21,700	19,664	19,664	\$ 19,664	19,664
Complete	9015	Hypochlorite Dosing System Rehabilitation Automation	Replaces pipe, valves, pumps, manifold to allow chlorination for disinfection & odor control; work done in house. Current project replaces the two tanks with double-walled tanks.	372,900	1,350,000	\$ 820,044	\$ 616,146	616,146
Complete	9077	Engine Generator #4 Complete Rebuild	Rebuild top end (valve job and associated parts; needed every 20,000 hrs) and lower end (cam shaft, main and rod bearings, rods, pistons and liners and ancillary parts and pieces; needed every 40,000 hrs).	561,000	246,213	246,212	\$ 246,212	246,212
Complete	9098	Shipping and Receiving Trailer	Combine with CIP #9132. Project complete	34,700	-	-	\$ -	-
Complete	9119	RAS Discharge Line 36" Butterfly Valve Replacement	Project Completed w/CIP #8017; Replace existing 36-inch butterfly valve with a knife gate valve to resolve ragging problem.	143,200	-	-	\$ -	-
Complete	9132	Storage and Purchasing Warehouse	Construct a new warehouse for secure storage of supplies, material, and equipment. Construct offices for Purchasing department staff. Replace existing warehouse siding and skylights. Install two new roll-up doors and one double door.	430,700	994,655	1,001,862	\$ 1,001,862	1,001,862
Complete	9150	Odor & Corrosion Control Program - General Support	Work completed to date satisfactory for moving forward. Provides support and funding for general requirements of projects contained within the Odor & Corrosion Control Program.	-	100,000	75,450	\$ 75,450	75,450
Complete	9201	Dimminutor procurement and installation	Purchase and install 2 dimminutors for each MPPS and SCPS. Purchase 1 spare for emergency installation. Budget allocated out of 9152	-	334,814	374,323	\$ 374,442	374,442

**SVCW Capital Improvement Program
CIP Project Status - COMPLETED Prior to October 2017**

28-Nov-17

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	2015 CIP Update (2015 \$s)	2017 CIP Update (2017 \$s)	Actual Spent thru January 2018
Complete	9203	Central Chillers Replacement	Existing Chillers 1 and 2 are undersized and have reached the end of their useful lives and provide no redundancy. Chiller #1 has stopped functioning and is no longer serviceable. This project replaces the two chillers with three new chillers, providing one for redundancy and greatly enhancing reliability. Budget allocated out of 9152	-	996,448	1,109,003	\$ 1,109,003	1,109,003
Complete	9204	MPPS Concrete Repair	Severe corrosion and spalling concrete have been witnessed at the Menlo Park Pump Station, compromising the integrity of the structure and posing a safety hazard to SBSA Utility Workers. This project will also remove the chemical storage tanks, piping, and pumps that are no longer used. Budget allocated out of 9152	-	68,155	68,155	\$ 68,155	68,155
Complete	9211	Secondary Clarifier 6" Water Line Replacement	Replace the 6-inch water line situated on the eastern wall of the secondary clarifiers under the Activated Sludge Automation project. Project pulled from CIP #9152.	-	70,000	59,496	\$ 59,496	59,496
Complete	9213	Area Lighting	Replacement of Plant area lighting to LED lights by in-house staff and broken out from CIP #9152.	-	56,000	55,547	\$ 68,415	68,415
Complete	9801	12 kV Primary Switchgear Replacement	Replace primary switchgear due to existing one's obsolescence. Project includes full enclosure and SCADA connection, cabling to T1&T2. Join CIP #s 9801 through 9804 into a larger Power Reliability Improvements project.	-	-	3,152,470	\$ 3,188,875	3,188,875
Complete	9802	Motor Control Center P-1,2,3, &4 Replacement	Replace all main Motor Control Center Panels P1 through P4 which have reached the end of their useful lives. Join CIP #s 9801 through 9804 into a larger Power Reliability Improvements project.	-	-	3,130,760	\$ 3,160,662	3,160,662
Complete	9803	Electrical System Redundancy	Replace Power Distribution Panels PD1 and PD2 due to obsolescence. Includes tie-breakers for flexibility between T1 and T2. Join CIP #s 9801 through 9804 into a larger Power Reliability Improvements project.	-	-	3,134,080	\$ 3,163,940	3,163,940
Complete	9804	Standby Power Upgrade	Install new standby bus for P1 through P5. Including new ATS's and cabling to P-6 and 2 new standby generators rated at 1MW each. Join CIP #s 9801 through 9804 into a larger Power Reliability Improvements project.	-	-	3,412,623	\$ 3,506,324	3,506,324
TOTALS - COMPLETED PROJECTS PRIOR TO OCTOBER 2017				\$45,503,536	\$125,414,488	\$139,296,849	\$137,234,509	\$137,258,228

**SVCW Capital Improvement Program
CIP Project Status - COMPLETED Post October 2017**

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	2015 CIP Update (2015 \$s)	2017 CIP Update (2017 \$s)	Actual Spent thru January 2018
Complete	8007	Primary Sedimentation Control System	Install basic PLC and Communication equipment, conduit and primary sensing devices for primary sedimentation tanks. Do as part of SPA project	3,245,100	2,899,640	\$ 5,592,029	\$ 6,506,023	6,743,659
Complete	8018	Gravity Thickener Process Automation	Install basic PLC and Communication equipment, conduit and primary sensing devices in thickener area. Part of SPA project.	2,105,800	4,285,314	\$ 6,425,219	\$ 8,082,704	8,316,682
Complete	8021	Anaerobic Digestion Process Automation	Automate digester process. Part of SPA project.	2,589,600	8,882,096	\$ 9,701,615	\$ 8,041,234	8,284,196
TOTALS - COMPLETED PROJECTS POST OCTOBER 2017				\$7,940,500	\$16,067,050	\$21,718,863	\$22,629,960	\$23,344,537

**SVCW Capital Improvement Program
CIP Project Status - IN CONSTRUCTION**

28-Nov-17

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	2017 CIP Update (2017 \$s)	Actual Spent thru January 2018
Constr	6003	Influent Force Main Emergency Repair	As-needed repairs if leaks in the influent force main occur.	\$ 2,145,000	\$ 3,645,000	\$ 3,840,157	\$ 2,751,562	2,882,920
Constr	6012	Effluent Pipeline and Outfall Reliability Improvement	Improve reliability of Effluent Pipeline and Outfall, which have historically experienced leaks	-	12,450,438	\$ 10,063,562	\$ 10,844,371	11,190,956
Constr	7012	Pump Stations Processor Upgrade & T-1 Transition for Primary Communications	Install new PLC processors for existing Pump Station Controls	-	-	\$ 298,151	\$ 89,782	177,665
Constr	8023	SCADA/Auto Response to Plant Alarm Conditions	Planning and programming effort to maintain reliability while reducing labor demand. Requires Automation Program and Communications Upgrade to be completed.	1,446,700	1,255,286	\$ 744,749	\$ 709,762	226,449
Constr	8025	No. 3 Water Control System	Install basic PLC and Communication equipment, conduit and primary sensing devices for #3 water system.	111,700	225,000	\$ 231,430	\$ 242,371	44,006
Constr	8036	Automation System Integration - SRF Funded	Use funding for global automation tasks funded by SRF loan program	-	416,545	\$ 445,294	\$ 137,436	137,436
Constr	8038	Process Return Flow Meter and Sampler Installation	Install flow meters and samplers on small side streams to be able to monitor and track these flows. Project is being installed in-house.	-	357,500	\$ 382,370	\$ 187,096	188,536
Constr	9014	Process Tanks Concrete and Steel Protective Coatings Replacement	Replace coating in PEC and PST 1&2 (1st phase). Add FFR Wet Pit to project scope. Do with CIP #9127.	-	-	\$ 5,293,542	\$ 5,382,378	3,977,302
Constr	9034	Electrical Conductor Replacement - MCC Room to Wetside/Dryside Loads	Multiple year project to replace old and corroded electrical cabling throughout the Plant.	4,903,500	2,400,000	\$ 2,791,033	\$ 2,935,934	308,844
Constr	9067	Dewatering Process Control System Upgrade	Work being completed under CIP #8021, SPA project. Adds new SCADA View at existing location, programming for cutover of new controls. Delete budget from this project.	108,400	-	\$ -	\$ -	-
Constr	9080	Primary Sedimentation Tanks Collector System Replacement	Replace or rebuild collector drive system, including chains and filghts; one tank every 2 years.	1,929,100	1,929,100	\$ 4,309,732	\$ 4,334,681	3,900,543
Constr	9096	Plant Architectural Painting	Plant-wide painting including pumps, piping, equipment and structures. Painting necessary to prevent corrosion & for longevity of Plant's assets.	1,564,900	1,564,900	\$ 1,813,307	\$ 1,842,673	388,692
Constr	9118	SCADA Integration with Integrated Business Management System	Information Management System and SCADA to be tied together for asset management and maintenance scheduling.	481,000	2,168,560	\$ 2,458,093	\$ 2,483,273	2,026,758
Constr	9128	PST 3 & 4 Protective Coatings	Complete with 9080 - PST Collector System Replacement	714,150	714,150	\$ 2,869,160	\$ 2,881,273	3,040,561
Constr	9131	Plant Service Road Resurfacing- Phase 2	Plant site grading and paving.	1,089,000	821,310	\$ 1,066,488	\$ 1,112,712	309,083
Constr	9152	Small Capital Equipment Replacement	Ongoing replacement of equipment for maintenance needs throughout plant	3,714,000	1,954,500	\$ 2,238,071	\$ (25,374)	1,233,502
Constr	9164	Dewatering and Solids Handling Improvements - Phase I	Recommendations from the Biosolids Master Plan for dewatering improvements.	-	3,897,253	\$ 5,565,212	\$ 6,379,530	6,381,768
Constr	9177	Implement Security Plan Enhancements	Implement enhancements outlined in Security Document; conjoin with capital improvements as they are being implemented.	-	1,920,000	\$ 1,165,990	\$ 1,179,163	526,952
Constr	9188	DMF Underdrain Access Hatches	There is no access point to the DMF underdrains. This project will provide such access.	-	105,600	\$ 116,871	\$ 123,559	2,307
Constr	9214	Alternate Bisulfite Injection Point	Provide an alternate bisulfite injection point in order to reduce the chance of permit violation	-	423,660	\$ 457,631	\$ 356,998	10,519
Constr	9222	Dual Media Filters 6A and 6B	Construct two new Dual Media Filters and associated valves and piping. Work is being performed as a CCO by ERS.	-	3,452,571	\$ 2,053,201	\$ 2,077,557	937,715
Constr	9226	DMF Platforms	Construct platforms for access to maintain valves in the DMF Gallery. Currently the valves are not accessible. Do work as a CCO to DMF 6A & 6B construction project (CIP #9222)	-	-	\$ 155,490	\$ -	-
Constr	9228	Diesel Pump Upgrade	Relocate and replace diesel pumps and generator day tanks.	-	-	\$ 879,178	\$ 527,319	551,609
Constr	9231	BioforceTech Dryer System	Work with BioforceTech for half-scale biosolids drying Facility. SVCW to provide suitable site and utilities; Bioforce Tech to construct and operate. Tipping fee will be established based on this relationship.	-	-	\$ 2,048,637	\$ 1,610,621	1,091,430
Constr	9238	Front of Plant Site Civil	Ground improvement, grading, yard piping, and paving of Front of Plant Site. Includes storm water pump station and frontage wall.	-	-	\$ -	\$ 17,644,259	3,833,440
Constr	9806	Wetside Redundant Power Improvements	Addition of two standby power generators to PDP2 switchgear. In order to save monies, PDP2 was constructed to be completely ready for new generators and was originally proposed to allow existing generators to backfeed through existing primary transformers T1 and T2. Concerns raised during the Rule 21 process caused this plan to be superceded with standalone generators.	-	-	\$ 2,941,000	\$ 7,431,279	7,444,707
Constr	9808	In-Plant Power (12kV) Rehabilitation	Repair of 12 kV settling between Control Building and Solids Handling Building.	-	-	\$ -	\$ 2,347,412	123,294
TOTALS - PROJECTS IN CONSTRUCTION				\$ 18,207,450	\$ 39,701,373	\$ 54,228,348	\$ 75,587,626	\$ 50,936,993

**SVCW Capital Improvement Program
CIP Project Status - PLANNING & DESIGN**

28-Nov-17

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	2017 CIP Update (2017 \$s)	Actual Spent thru January 2018
Planning	6004	Flow Equalization Facility	Build wet weather and diurnal storage facilities on plant property	\$8,981,300	\$28,600,000	\$ 18,171,592	\$ 18,532,957	670,428
Planning	6006	Conveyance System CEQA	Project Development, CEQA, and Planning for the Conveyance System Project Elements	-	839,000	\$ 5,100,580	\$ 4,358,551	4,514,597
Planning	6008	Tunnel and Gravity Pipeline	Installation of gravity pipeline, using tunneling construction methods for conveying wastewater to the plant.	-	63,190,000	\$ 220,007,111	\$ 232,245,223	13,242,341
Planning	6010	Force Main Conveyance System Program - General Support	Provides support and funding for general requirements of projects contained within the Conveyance System Program.	-	200,000	\$ 208,810	\$ 207,798	214,103
Planning	6013	Receiving Lift Station	Construct new pump station to lift flow out of the gravity pipeline and into headworks of the plant.	-	-	\$ 50,573,002	\$ 53,475,420	2,098,293
Planning	6014	Influent Connector Pipe	Install new pipeline that connects headworks process to current plant influent.	-	-	\$ 9,081,206	\$ 9,572,657	1,153,969
Planning	6016	MPPS FM Junction Box at RWCPs	Repair connection of 33" to 48"	-	-	\$ -	\$ 353,132	-
Planning	7004	Menlo Park Pump Station Rehabilitation	Replace Menlo Park Pump Station to accommodate future Conveyance System needs	5,454,200	10,900,000	\$ 23,847,974	\$ 25,229,637	278,404
Planning	7005	Redwood City Pump Station Rehabilitation	Replace Redwood City Pump Station to accommodate Conveyance System needs	23,400,000	25,140,000	\$ 30,216,325	\$ 31,759,810	3,917,672
Planning	7008	Belmont Pump Station Rehabilitation	The existing pump station is at the end of its useful life. This project will replace the pump station equipment at the same location with details to be identified upon completion of the Conveyance System Program planning under Alternative 4BE. In the interim, until new pump station is constructed or deemed unnecessary, this project will fund necessary maintenance.	14,872,000	-	\$ 10,106,624	\$ 10,694,645	45,193
Planning	7009	Pump Stations Program - General Support	Provide general support to the Program Manager and in support of the overall pump station program.	-	400,000	\$ 426,505	\$ 441,939	162,104
Planning	7011	Belmont Force Main	Construct Pipeline between Belmont Pump Station and San Carlos Pump Station location.	-	22,022,000	\$ 3,308,933	\$ 3,482,030	350,314
Planning	7014	San Carlos PS Demo and Odor Control	San Carlos Improvements. Includes odor control and demo.	-	-	\$ -	\$ 5,791,371	-
Planning	9017	Plant #1 Water System Pipe Repair and Supply Upgrade	Rehabilitate potable water system: replace air gap tank or install backflow preventer, hydropneumatic tank, and pumps.	148,400	365,474	\$ 456,925	\$ 514,689	470,078
Planning	9033	Future Plant Electrical System Panel Replacement	Complete replacement and addition of additional panels and subpanels	5,748,600	5,570,322	\$ 6,357,363	\$ 5,544,394	4,222,748
Planning	9097	Plant Deck Re-coating	Add painted walkway and H2O rated hatch covers for pedestrian/cart access under the Plant Control building. Some hatches replaced under other CIP projects.	179,400	179,400	\$ 209,376	\$ 221,442	2,685
Planning	9102	Storm Drain System Improvements and Maintenance Wash Rack	Replace the last existing stormwater pump with a submersible pump and install 400' of buried 6" C900 PVC pipe and control valves to deliver storm water to the influent junction box or storm lagoon. Construct new wash rack to facilitate ability to clean equipment for maintenance overhauls. Includes upgraded electrical and control system. These two items occur in the same Plant area; stormwater PS work complete; wash rack not complete.	482,100	482,100	\$ 211,947	\$ 108,287	108,287
Planning	9105	Document Management System	Phase 2 of the IMMS; use for CIP information management.	1,995,500	1,995,500	\$ 2,318,059	\$ 2,434,291	764,006
Planning	9107	CCT Concrete and Steel Protective Coating Replacement	Recoat walls and Ceiling of CCT	4,807,400	4,901,400	\$ 5,719,970	\$ 6,045,772	547,262
Planning	9120	RAS Pump Suction Pipe Replacement	Slip-line the in-slab pipe. The high content of solids in sludge piping wears the pipe out over time; the RAS piping is thin due to the continued abrasion of the sludge transported through it.	511,800	311,800	\$ 362,864	\$ 381,987	88,071
Planning	9144	Solids Handling Program - General Support	Project provides support and funding for general requirements of projects contained within the Solids Handling Program through the life of the CIP.	-	100,000	\$ 141,165	\$ 243,247	249,312
Planning	9145	Plant Energy System Program - General Support	Provides support and funding for general requirements of projects contained within the Plant Energy System Program.	-	75,000	\$ 87,192	\$ 88,541	64,082
Planning	9160	WWTP Headworks and Screening Facility	Project provides for a new headworks and screening facility at the WWTP. Pump station predesign efforts will take headworks needs into account.	-	16,422,000	\$ 43,011,190	\$ 45,458,834	1,813,472
Planning	9169	Dewatering and Solids Handling Improvements - Phase II	Implement the dewatering improvements recommended by the Biosolids Master Plan, including replacing the existing centrifuge with a third rotary press. Timing is dependent upon several projects currently being considered (Food Waste, Bioforce Tech, future Plant loadings) and when Operations require redundancy.	-	1,123,200	\$ 1,443,215	\$ 1,514,596	295,576

**SVCW Capital Improvement Program
CIP Project Status - PLANNING & DESIGN**

28-Nov-17

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	2017 CIP Update (2017 \$s)	Actual Spent thru January 2018
Planning	9175	Security Program for New Conveyance System Pump Stations	Conduct an evaluation of the security and monitoring needs (required and optional) to be designed into the new conveyance system pump stations. The goal is to have a list of design criteria to give to the pump station design firm to ensure consistency of security equipment and controls. This project will investigate remote monitoring alternatives desired for operational needs. The project includes SVCW making decisions on security equipment, software and integration into the plant data system assuming this project will be conducted before the Plant Security Assessment and Plan project.	-	200,000	\$ 15,113	\$ 15,995	(0)
Planning	9176	Plant Vulnerability Assessment and Security Plan	Conduct a Site Vulnerability Security Assessment and prepare a Security Plan. This is to identify the security needs at the plant based on potential for vandalism and the planned elimination of night time staffing. This plan will incorporate the decisions made in the Pump Station Security Program (CIP #9175) for software, I/C, and overall network controls. Additional hardware and equipment specific to the plant will be evaluated.	-	250,000	\$ 66,986	\$ 70,897	-
Planning	9189	DMF Pump and Discharge Piping Replacement	Replace motors and drives on DMF Pumps.	-	858,000	\$ 1,793,236	\$ 1,897,048	52,615
Planning	9215	Digester #1 Rehabilitation	Repair of coatings and structural elements in Digester #1. Project includes replacement of the two mix nozzles, two wall penetrations and the upper and lower vertical mix pipe manifold as previously included in CIP #9170. Also include interior coating of 24-inch horizontal mix piping as previously included in CIP #9171.	-	2,000,000	\$ 2,161,884	\$ 2,286,199	61,084
Planning	9223	Final Effluent Pump Replacement	Increase the capacity of the final effluent pumps to be able to discharge 80 mgd	-	2,301,714	\$ 2,484,794	\$ 2,624,144	97,693
Planning	9224	FEP Connection to Chlorine Mix Box	Provide pipeline to connect effluent pumps to the chlorine mix box to improve plant hydraulics and chlorine contact time	-	200,000	\$ 216,219	\$ 228,750	5,690
Planning	9232	Long Term Strategic Recycled Water Planning	SVCW would begin collaboration with outside stakeholders for long-term planning of recycled water expansion as a drought proof water supply, explore IPR/DPR treatment requirements etc. Budget is for staff time to attend meetings and begin long-term planning, plus work with consultants on conceptual studies. No construction dollars are included. Large scale expansion of recycled water treatment may offset dollars spend on future nutrient removal compliance	-	-	\$ 532,137	\$ 49,552	241,412
Planning	9236	CEC-SAF-MBR	Build a pilot facility using CEC grant monies and in-kind services using a new treatment process developed at Stanford University. The process is called Staged Anaerobic Fluidized-Bed Membrane Bioreactor (SAF-MBR). This process could facilitate nutrient removal, recycled water production and, possibly, replace SVCW's secondary treatment processes. Up to \$500,000 was approved by the Commission for funding this project; monies will be allocated from CIP #9232, Long Term Strategic Recycled Water Planning.			\$ 500,000	\$ 510,307	12,659
Planning	9237	Radio Road Wetlands Restoration	Restore the area behind the dog park to make a suitable habitat for birds	-	-	\$ -	\$ 3,531,324	-
Planning	9810	Energy Storage	Install 1MW/2MWh energy storage system that uses Lithium-Ion battery.	-	-	\$ -	\$ 2,041,228	-
Planning	9811	Solar PV System	Install solar photovoltaics to harness solar energy in conjunction with energy storage. The solar panels will augment the energy portfolio of SVCW energy systems.	-	-	\$ -	\$ 7,945,478	-
Design	9168	Thickening Improvements - Phase I	Rehabilitate Thickeners 2 and 3	-	2,808,000	\$ 1,448,690	\$ 1,830,026	524,659
Design	9186	Replacement of Aeration Blowers	The 2010 FFR preliminary design report evaluated the existing blowers and indicated an additional 10 years life remain if the units are maintained well and ventilation is added to the room. Project added in 2012 Update; use project as a placeholder for future replacement and for change to mixers inside the ABs.	-	4,290,000	\$ 4,750,568	\$ 5,006,736	1,700,303
Design	9206	Site Waste Piping and Pump Replacement	Replace discharge piping and header and add one new pump due to significant number of leaks in the system.	-	99,528	\$ 109,901	\$ 115,781	9,172
Design	9220	Aeration Basin Venturi Removal	Remove a bottleneck to allow peak flow of 80 mgd	-	1,150,857	\$ 1,243,488	\$ 1,314,967	19,033
Design	9229	Food Waste: Receiving Station and Digester Improvements	Plan, Design and Construct Receiving Station for Accepting Food Waste from SBWMA. Project would include new receiving station and interconnection to Digesters	-	-	\$ 14,330,203	\$ 15,100,390	1,248,027
Design	9807	New 12kV Switchgear	Install a new 12 kV feed to the plant that will serve the new loads from Receiving Lift Station. This new new switchgear will also be tied to existing cogen system to allow export/import of power to PG&E after Rule 21 modifications. New solar and energy storage will be also tied to this new switchgear.	-	-	\$ -	\$ 10,593,971	84,714

TOTALS - PROJECTS IN PLANNING & DESIGN

\$66,580,700 \$196,975,295 \$461,021,145 \$513,864,043 \$39,330,053

Note - \$0 values where project did not yet exist in the identified CIP, was deleted, or was merged with another project

**SVCW Capital Improvement Program
CIP Project Status - REMAINING**

28-Nov-17

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	2017 CIP Update (2017 \$s)	Actual Spent thru January 2018
Project On Hold	9071	Plant Gallery Floor and Wall Crack Sealing	Seal gallery floors to prevent infiltration of GW. Unplug in-slab drain pipes.	250,000	484,832	561,364	586,566	129,652
Project On Hold	9113	Evaluation of Plant Underslab Piping	TV or otherwise investigate various piping embedded in concrete throughout the Plant	371,800	371,800	434,129	459,472	-
Project On Hold	9192	Drying Beds Northern Expansion	Expands the drying bed to the north with a new 3-acre bed.	-	1,656,000	37,337	32,825	131,166
Project On Hold	9400	Nutrient Removal	Placeholder for facilities required to remove nutrients (nitrogen and phosphorous) to meet future regulations.	-	-	103,636,229	67,347,122	649,490
Project Not Started	8045	System Integrate: Pump Station Security into WWTP Controls	This project is for the system integration of the pump stations' security systems into the WWTP control system. The project budget assumes 1) that all the security costs associated with specific pump station design and installation of equipment will be included in specific pump station rehabilitation projects and 2) the costs for security control equipment at the WWTP is included in new CIP #9177.	-	150,000	175,146	185,370	-
Project Not Started	9041	Underground Fuel Tank Replacement	Future Underground Storage Tank regulations may require removal of this tank. Remove 15,000 gallon underground fuel (diesel) tank and replace with a tank that meets regulatory requirements when necessary. Electrical costs include conduit and wiring for new underground tank leak detection equipment necessitated by moving the tank.	458,000	458,000	534,779	565,998	-
Project Not Started	9084	Seismic Upgrade - DMF 42" Effluent Piping	Install lateral bracing on the DMF 42" effluent piping. (Seismic Improvement Program No. P14).	167,300	167,300	195,346	206,670	5,010
Project Not Started	9093	Headworks Odor Control	Cover grating and open areas, treat odorous air.	929,500	929,500	1,085,321	-	-
Project Not Started	9094	Thickener Overflow Line Butterfly Valve Replacement	The butterfly valve is worn and no longer working as it is intended.	28,300	28,300	-	-	-
Project Not Started	9171	Interior Coating of Horizontal Influent 24" Mix Pipes for Digester 3	The Horizontal 24" Mix Pipe Lines were inspected in 2009 and minimal reduction in pipe thickness was noted and the pipes were placed back into service. It was noted that the coating was peeling off in places so this project will inspect the pipes next time the digesters are taken down for maintenance and replace interior coating and corroded piping as needed. Digester 2 piping replaced under CIP #9095. D1 piping to be included with CIP #9215, Digester 1 Rehabilitation. D3 piping remains to be replaced.	-	100,000	116,764	123,580	-
Project Not Started	9172	Thickening Improvements - Phase II	Gravity Belt Thickeners were installed under CIP #8018, Thickening Automation in 2014-2015. If and when flows and loadings increase, Phase II will install one or more GBTs. This is a project placeholder and not currently funded.	-	2,808,000	-	(67)	9,779
Project Not Started	9173	Dewatering and Solids Handling Improvements - Phase III	Implement the dewatering improvements recommended by the Biosolids Master Plan, including installation of a fourth rotary press.	-	1,123,200	1,311,493	1,388,054	-
Project Not Started	9174	Digester Supernatant Piping Upgrades	The existing supernatant piping only allows for supernatant to Digester 3 from Digesters 1 and 2 and there is no passive overflow system at any of the Digesters. This project will investigate the future need for additional supernatant piping and alternative destinations for receiving supernatant flow. The project cost assume \$50,000 for the evaluation and a placeholder of \$250,000 for implementation.	-	300,000	350,292	370,741	-
Project Not Started	9185	Water Cannons at Aeration Basins	Provide 3W piping and appurtenances required to supply high volume, high pressure water for aeration basin wash-down.	-	107,250	118,783	-	-
Project Not Started	9187	Secondary Clarifier Weir Washers	Install weir washers on secondary clarifier weirs to facilitate routine daily washing and in support of eventual single shift operations and maintenance.	-	248,820	275,576	291,663	-
Project Not Started	9196	Electronic O&M Manuals	Develop Electronic O&M manuals to replace existing paper manuals. Extent of e-manuals will be determined to coincide with full plant automation requirements.	-	1,000,000	1,036,600	1,097,113	-
Project Not Started	9197	In-Plant Recycled Water System Expansion	Expand the recycled water pipeline installed under CIP 9018 to supply cooling water to the new emergency generators in the SHB and the new chillers in the Thickener gallery.	-	231,660	256,570	271,441	6,686
Project Not Started	9212	Security Arm Gates	Install security lift arm gates to block access to cars from areas of the plant past the parking lot.	-	80,000	86,488	91,536	-
Project Not Started	9225	DCP2 Processor Upgrade	DCP2 Control Logix Upgrade (Dual Chassis) for central data collection and Critical Alert Alarm (CAA) system monitoring and management. The current system is beyond it's useful life and has no redundancy.	-	-	107,599	113,880	-
Project Not Started	9233	Strategic Technology Testing Assistance	Set aside a small project budget to assist with future possible pilot studies. Do not fund project at this time.	-	-	-	-	-

**SVCW Capital Improvement Program
CIP Project Status - REMAINING**

28-Nov-17

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	2017 CIP Update (2017 \$s)	Actual Spent thru January 2018
Project Not Started	9235	Digester Gas Storage	Construct storage for digester gas gas equalization in support of optimizing the cogeneration engine operation/electricity output. Gas production expected to rise with introduction of co-digestion materials (food waste and FOG)	-	-	1,451,240	1,535,958	-
Project Merged	6005	Influent Force Main - Rehabilitation or Parallel	Project redefined into pipeline segments; retire this CIP #. Repair and Replacement work on the SBSA Force Main as joints fail (start to leak). The force main has approximately 4,000 single "O" ring bell and spigot joints while the entire pipe rests in bay mud and moves constantly.	125,053,500	2,786,934	3,031,955	3,031,955	3,031,955
Project Merged	8014	Primary Sludge Piping System Valve Automation	Install valve actuators and new valves as needed to facilitate automation of the primary sludge system. Delete project and merge with 8007.	281,700	-	-	-	-
Project Merged	8024	Thickening Pump #1-6 Remote on / off / speed controls	Combined with Thickener Automation (CIP 8018) via SPA project. Includes effort for motor replacement.	360,600	10,978	26,869	28,437	0
Project Merged	8030	Automation: Instrumentation & SCADA Program - General Support	Provides support and funding for general requirements of projects contained within the Energy and Automation Program. Do not fund project in 2015 Update	-	670,509	433,801	432,477	459,548
Project Merged	8037	Automation System Integration - Bond Funded	Pulls out global automation programming tasks being completed by B&V into SRF or Bond funded categories.	-	620,260	9,384	-	-
Project Merged	9103	Landscape Impoundment Improvements	Project is slated to provide improvements to the impoundment. Work in addition to what was originally intended may be done for future Plant process needs.	269,100	269,100	\$ 256,951	270,525	35,106
Project Merged	9108	Scum Flowmeter	Combined with Thickener Automation (CIP 8018).	29,200	-	-	-	-
Project Merged	9124	Biosolids Master Plan	Master plan for handling, hauling and disposal/reuse of biosolids.	6,373,600	694,523	0	0	0
Project Merged	9165	Seismic Upgrade of Digester Mix Room and Boiler Room Piping	Do work under SPA project, CIP # 8021.	-	111,500	-	-	-
Project Merged	9205	1406 Radio Road Property Improvements	Provide for general improvements at the newly purchased property at 1406 Radio Road	-	1,135,000	121,550	121,500	121,500
Admin	9078	10-Yr CIP Program Annual Updates	Update the 10-Year CIP and costs annually or as needed to ensure that projects are scheduled and funds are available each year	180,000	300,000	348,705	153,092	142,909
Admin	9130	Capital Improvement Engineering	Funds staff required to coordinate and implement the Capital Improvement Program.	7,000,000	7,000,000	13,349,767	-	594,798
Admin	9158	CIP Financial Assistance	State Water Resources Control Board SRF construction loan assistance. Funding received for Admin Building and WWTP Improvements and planning loan for Conveyance System. Future applications will be submitted for Conveyance System and Future Treatment Plant projects. Budget includes ongoing compliance with loan requirements.	-	1,000,000	1,165,569	510,307	60,848
Admin	9159	OCIP Funding	Repository for funding the OCIP and payment to Aon for management of the program for first five years. New OCIP program being evaluated in 2015.	-	6,000,000	6,217,403	5,103,069	111,227
Admin	9184	LOC Funding - Phase I	Fees for setting up and managing LOC with Bank of the West. Process complete.	-	105,431	11,124	0	(0)
Admin	9209	LOC Funding - Phase II	Initial Set-up and Annual fee for LOC with Wells Fargo as of 2015.	-	120,000	129,731	30,618	-
TOTALS - REMAINING PROJECTS				\$141,752,600	\$31,068,897	\$136,873,865	\$84,349,902	\$5,489,675

Note - \$0 values where project did not yet exist in the identified CIP, was deleted, or was merged with another project

Commissioners' Requested Action Items
Updated: 02/23/2018

Commission Meeting Date	Action Item		Requested or Estimated Date for Completion	Status			Date of Completion	Notes
				Ongoing	In Progress	Complete		
1/18/2018	1	RESCU Program and Project Updates	N/A		✓			When available, upload monthly dashboard summary reports onto website and email to Tech Cmte members.
	2	Gravity Pipeline Acquisitions	N/A		✓			Report out on acquisition results when available.
12/14/2017	1	Change Design-Build Policy to reflect a sunset date of December 31, 2024 to current amount of \$300k Manager-authorization level for construction change orders unless extended by the Commission at a later date	12/14/2017			✓		Changes made to Approved Resolution
11/9/2017	1	Prepare and install signage for Front of Plant area describing what's occurring for public	12/1/2017			✓		Sign designed and installed.
10/5/2017	1	When SVCW can begin exporting power to grid, make public for positive public relations standpoint	N/A		✓			While this is a good opportunity for positive public relations, it will take many months and maybe years to reach the point that SVCW is routinely exporting power. Updates will be provided to the Commission until the program is implemented.
	2	Project delay costs	N/A	✓			Ongoing	It was noted that project delays can cost upwards of \$1M/month; remind the Commission of this if staff sees the possibility of project delays.
9/14/2017	1	Add Consent Item re: payment to Mobile Modular	10/5/2017			✓	10/5/2017	Payment to Mobile Modular in the amount of \$68k was included in an Action at the November Commission meeting.
	2	Begin process to get onto City's and WBSD's Board meetings' calendars to discuss upcoming bond issuance.	9/20/2017			✓	10/5/2017	Council and Board meeting calendars fill up quickly; to ensure SVCW's bond issuance is considered by each member agency, issue a memo/email to each to get onto December calendars.
	3	Provide recommendation on increased Manager-authority for two Design-Build projects	12/14/2017			✓	12/14/2017	Included in Agenda action on 12/14/2017
8/10/2017	1	CalPERS Subcommittee formation	2/8/2018			✓		Subcommittee formed consisting of Commissioner Otte and Commissioner Grassilli. Meeting held on February 8, 2018 and recommendation to maintain the status quo of the program due to ongoing legal proceedings with CalPERS, with the possible exception of its application to the SVCW Manager. Manager status to be discussed as part of annual performance review and contract negotiations. Discussion may be held as part of Manager's report or Items of Commission Members Interest portion of Commission meeting on March 8, 2018.
	2	Operating Budget/Staffing	4/1/2018		✓			Ensure SVCW's salaries and benefits remain competitive with the industry in the development of next FY's budget, especially as it reflects the challenge of hiring engineering or other hard to find/keep staff.
7/13/2017		No new items at this meeting						
6/8/2017	1	Public Policy	7/13/2017			✓	8/10/2017	Letter sent to Congresswoman Eshoo on 08/10/2017.

Commissioners' Requested Action Items
Updated: 02/23/2018

Commission Meeting Date	Action Item		Requested or Estimated Date for Completion	Status			Date of Completion	Notes
				Ongoing	In Progress	Complete		
5/11/2017	1	Progressive Design-Build	5/18/2017			✓	5/15/2017	Sent a link of the Requests for Qualifications to Commissioner Otte.
4/13/2017	1	Progressive Design-Build	11/9/2017			✓	11/9/2017	Selection of Progressive Design-Build Firms for Front of Plant and Gravity Pipeline projects complete.
	2	CIP Project Public Outreach Efforts	NA	✓				Continue comprehensive public outreach efforts with regular project updates to the public and implement webcam(s) at project site(s).
	3	Management Personnel Performance Pay Policy	NA	✓				Update the Performance Pay Policy to meet CalPERS standards and requirements including update of annual Performance Evaluation forms to meet same. Present to Commission as part of the approval of the published annual consolidated pay schedule to be publicly posted. Subsequently rejected by CalPERS and Commission sub-committee formed to address future of program. Ongoing due to continued legal process with CalPERS.
3/23/2017	1	Long Term Compensation Stability Program/Policy	4/1/2018		✓			Develop methodology for regular updates to compensation schedules with defined increases and practices to insure SVCW compensation stays current with local trends and practices to maintain Authority competitiveness in the marketplace. Develop for Commission approval to facilitate inclusion in the FY 18/19 budget/salary process.
	2	Manager Performance Evaluation	4/13/2017			✓	7/13/2017	Manager provided self evaluation and blank performance evaluation forms to Commissioners at the April meeting; Commissioners have sent their evaluation of Dan's performance directly to Commissioner Seybert. Commission met with Dan on June 8, 2017 and discussed the performance evaluation and compensation.
> One Year	1	MOU Negotiations	NA		✓			From 06/19/2016 Meeting: When MOU negotiations occur, present status updates to the Commission - anticipated in spring 2018.
	2	Greendale property construction progress	2/1/2018		✓			Work is expected to be complete by May 1, 2018. Additional costs are being tabulated on a direct time and materials basis with no mark up by contractor.

**MINUTES OF SILICON VALLEY CLEAN WATER
SPECIAL MEETING – JANUARY 18, 2018
8:00 a.m.**

ITEM 1

CALL TO ORDER

Commission Chair, Mr. Seybert called the meeting to order at 8:04 a.m.

ITEM 2

ROLL CALL - Commissioners Duly Appointed by Each Agency

Council Member John Seybert, Redwood City – Chair
Council Member Warren Lieberman, PhD., Belmont– Vice Chair
Mayor Robert Grassilli, San Carlos – Secretary
Board Member George B. Otte, P.E., West Bay Sanitary District

Commissioner Otte was absent for Roll Call and arrived soon after due to unforeseen circumstances.

Staff, Consultants and Visitors Present

Christine C. Fitzgerald, SVCW Legal Counsel
Daniel T. Child, SVCW Manager
Teresa Herrera, SVCW Assistant Manager/Chief Engineering Officer
Matt Anderson, SVCW Chief Financial Officer/Administration Manager
Monte Hamamoto, SVCW Chief Operating Officer
Ilana Schmidt, SVCW Executive Assistant/Commission Secretary Pro-Tem
Bill Bryan, SVCW Senior Engineer
Bruce Burnworth, SVCW Senior Engineer
Eric Hansen, SVCW Senior Engineer
Cindy Hui, SVCW Accounting Supervisor
Jennifer Flick, SVCW Human Resources Director
Derek Rampone, City of Redwood City
Molly Flowerday, City of Redwood City
E.J. Shalaby, DNS Strategic Partners, LLC
Bill Tanner, Tanner Pacific, Inc.
Mark Minkowski, Kennedy/Jenks

ITEM 3

PLEDGE OF ALLEGIANCE

Matt Anderson, SVCW's Chief Financial Officer / Administration Manager, led those attending the meeting in the recital of the Pledge of Allegiance.

ITEM 4

PUBLIC COMMENT

There was no Public Comment.

ITEM 5A

SAFETY MOMENT

Mr. Child discussed smoke alarm safety and maintenance tips to ensure reliability in an emergency.

ITEM 5B

MANAGER'S REPORT

SVCW Events: Mr. Child presented invitations to SVCW's Annual Employee Recognition Brunch being held on January 31, 2018, at 10:00 a.m.

Form 700: Mr. Child reminded the Commissioners to submit their Form 700's which are due on April 2, 2018. The Executive Assistant to the Manager will have hard-copies at the next Commission Meeting for those who don't plan to file electronically.

Bay Area Regional Conference for Reclaimed Water: Mr. Child invited Commissioners to attend the conference on Friday, March 9th from 8:00 a.m. to 5:00 p.m. He will send an email with additional details following the meeting.

ITEM 5C

FINANCIAL REPORTS

There were no questions on the Financial Reports.

ITEM 5F

RESCU PROGRAM DESIGN-BUILD STATUS UPDATE

Ms. Herrera provided an update on the Front of Plant and Gravity Pipeline Projects. Currently, the Gravity Pipeline project is in the design phase. There are a lot of geotechnical investigations needed at the plant, the airport property shaft, the San Carlos pump station site and at Bair Island. They are also working on hydraulic modeling and developing tunnel boring machine specifications to determine what is needed so the Agency can best procure the needed machine. Also in the design phase is the Front of Plant Project with a lot of effort going toward the receiving lift station which is needed to pump the incoming wastewater from the bottom of the tunnel up to the surface equipment. They're also doing hydraulic modeling for the entire facility's needs and geotechnical

investigations to determine how to get needed piles in place as early as this coming summer for the headworks and influent connector pipe construction.

Ms. Herrera pointed out discussion regarding the single point of interception between the two teams, the retrieval shaft and receiving lift station that are one and the same in the original RFP. It is called a figure 8 design, with the receiving lift station incorporating surge tanks, as well as serving as the retrieval shaft for removal of the TBM from the tunnel. This interface between the two contractors is still in discussions with both firms to evaluate a possible cost savings by redesigning that structure and possibly eliminating the need for both contractors to be in the same structure. The reason for this is to minimize the risk between the two contractors and would establish only one point of connection for the projects.

Lastly, Ms. Herrera passed out a two-page document with detailed information on the Front of Plant Project and intends to provide these updates monthly at the Commission Meetings. The report includes a visual dashboard highlighting key points on project activity, cost summary, schedule information, and safety. Also, Ms. Herrera is working on a program level update and plans to have a handout at the next Commission Meeting. It will be a four to five-page document primarily for staff use, both SVCW and member agency staff. An important part of it will be the expenditure section which looks at both what has been expended for the program to date as well as a quarterly forecast for anticipated program level expenses.

Commissioner Grassilli requested this report go to the Finance and Public Works Department as it will be very beneficial.

Ms. Herrera will have it uploaded to SVCW's website under the RESCU Program as well as email it to both the Technical Committee and Finance Committee members.

Commissioner Lieberman asked what RESCU stands for. Ms. Herrera replied the Regional Environmental Sewer Conveyance Updates.

ITEM 6

MATTERS OF COMMISSION MEMBER'S INTEREST

Commission Chair Mr. Seybert asked Legal Counsel, Ms. Fitzgerald, if the Consent Calendar could be approved with the majority present. Ms. Fitzgerald confirmed the Consent Calendar items could be approved and Commissioner Seybert proceeded.

ITEM 7

CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR

Motion/Second: Mr. Grassilli / Mr. Lieberman

The Motion carried by Unanimous Roll Call Vote.

Commissioner Seybert asked Ms. Fitzgerald if any decision was being made in Closed Session requiring all members be present. Ms. Fitzgerald replied that only direction may be given and with that, Commissioner Seybert requested the Agenda be reordered to have Closed Session held before the Business Items while Commissioner Otte was in route to the meeting.

ITEM 9

CLOSED SESSION

Closed Session was called to order at 8:15 a.m.

A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8

Property Description: 930 Governor's Bay, Redwood City, CA (APN: 095-380-210)

SVCW Negotiators: Lillian Jewell, Kevin Thorne (Hamner, Jewell & Associates);

SVCW Manager, Daniel T. Child

Negotiating Parties: Young/Leung

Under Negotiation: Price and terms

B. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8

Property Description: 928 Governor's Bay, Redwood City, CA (APN: 095-380-220)

SVCW Negotiators: Lillian Jewell, Kevin Thorne (Hamner, Jewell & Associates);

SVCW Manager, Daniel T. Child

Negotiating Parties: Lau/Chang

Under Negotiation: Price and terms

C. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8

Property Description: Lots B, F and Governor's Bays Drive of Redwood Shores Owners

Association in Governor's Bay, Redwood City, CA

SVCW Negotiators: Lillian Jewell, Kevin Thorne (Hamner, Jewell & Associates);

SVCW Manager, Daniel T. Child

Negotiating Parties: Greenbriar Partners, A California general partnership

Under Negotiation: Price and terms

D. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8

Property Description: 999 Skyway Road, San Carlos, CA (APN: 046-081-780)

SVCW Negotiators: Lillian Jewell, Kevin Thorne (Hamner, Jewell & Associates);

SVCW Manager, Daniel T. Child

Negotiating Parties: Hudson Skyway Landing, LLC, a Delaware Limited Liability Company

Under Negotiation: Price and terms

ITEM 10

RECONVENE FROM CLOSED SESSION

Open Session reconvened at 8:34 a.m. Ms. Fitzgerald reported that discussion was held on the above items and instructions were given to Staff and Counsel by the Commission. There was no action taken.

Commissioner Seybert announced the meeting would stand in recess until Commissioner Otte's arrival.

The meeting was called back to order at 8:37 a.m. with all Commissioners present for Roll Call.

ITEM 8A

CONSIDERATION OF RESOLUTION AUTHORIZING ISSUANCE AND SALE OF 2018 WASTEWATER REVENUE BONDS TO PROVIDE FINANCING FOR THE SVCW CAPITAL IMPROVEMENT PROGRAM

Mr. Anderson passed out talking points and displayed a visual summary. To date, approximately \$250 Million Dollars have been spent on the CIP, with nearly a third of the entire CIP Program completed. Recently, the RESCU Program entered into two Design-Build contracts and those have accelerated the pace of the expenditures. The money needed to fund the CIP program over the next eighteen months is estimated to be \$180 million. The funding will come from the upcoming bond proceed transactions as well as cash from the City of Belmont who has opted to not participate in this bond issuance. Lastly, West Bay has opted to fund \$35 million through the bond sale and will provide the balance of their share for this issuance through other means to be determined by the West Bay Board. The bond proceeds will firstly be used to pay off SVCW's Line of Credit (LOC) that has been drawn on, about \$11 Million Dollars as of January 2018, in the absence of proceeds. Mr. Anderson emphasized the importance of paying this to minimize the incurrence of additional interest fees and that it is a condition of the LOC agreement.

Anticipated spending of this round of funding includes the RESCU Program Projects as well as Treatment Plant projects.

Both SVCW and Member Entity staff have spent the last two months preparing for this bond issuance. The bond issuance will be brought to San Carlos' and the Redwood City's City Council Meetings for adoption in the coming days. This bond sale is a "competitive sale," which means several banks and institutions will be asked to submit a bid proposal for purchase of the bonds on February 8, 2018. Finally, the Closing documents will be signed by February 16th with the money scheduled for receipt by February 22, 2018.

Mr. Anderson thanked everyone for their support and proceeded with recommending the Commission adopt the set forth Resolution and related financial documents for the bond issuance.

Commissioner Seybert asked Mr. Anderson how well he thinks we will do with the competitive price in the market. Mr. Anderson replied that the financial advisors believe SVCW will do very well. In December a lot of municipalities were issuing bonds because of the recently approved federal tax reforms, which no longer allows for advance refunding of bonds. Those agencies were accelerating their issues to avoid this restriction and created a large amount of supply in the last few weeks of the year. Now in February, the supply is leaner and demand seems to be good. Therefore, the expected pricing is very good.

Commissioner Lieberman asked if the cash from the City of Belmont will be expected on February 22nd. Mr. Anderson said discussions have been held with Belmont's Finance Director, Thomas Fil, and a scheduled payment plan has been made. Belmont will make advanced quarterly payments based on a quarterly schedule provided by Mr. Anderson. Mr. Anderson and Ms. Herrera are still refining the quarterly expected expenditures report and will work with Mr. Fil to provide him with a workable format.

Mr. Child added that in discussions on how to best meet the needs of Belmont and insure SVCW has funds when needed, Mr. Fil agreed to pre-fund on a quarterly basis the amount anticipated to be spent in the upcoming quarter.

Motion/Second: Mr. Otte / Mr. Lieberman

Move adoption of RESOLUTION OF THE COMMISSION OF SILICON VALLEY CLEAN WATER AUTHORIZING THE ISSUANCE AND SALE OF 2018 WASTEWATER REVENUE BONDS TO PROVIDE ADDITIONAL FINANCING FOR WASTEWATER TREATMENT PROJECT AND APPROVING RELATED FINANCING DOCUMENTS AND OFFICIAL ACTIONS

The Resolution carried by Unanimous Roll Call Vote.

ITEM 11

ADJOURN

There being no further business, the meeting adjourned at 8:45 a.m.

Robert Grassilli, Secretary

By: Daniel T. Child, Manager

SVCW WARRANT REGISTER

SVCW Warrant Register for the period covering February 10, 2018 to February 23, 2018.
A scanned copy was e-mailed to Commissioners on February 28, 2018.

02-23-18

SILICON VALLEY CLEAN WATER
WARRANT REGISTER
FUND RECAP

PAGE 0190

NAME	FUND	AMOUNT
RETIREE HEALTH INSUR. PD.	12	35,000.00
CAPITAL IMPROVEMENT FUND	14	14,394.70
OPERATION	18	224,621.06
RECYCLED WATER FUND	19	22,438.24
PLANT - CIP BOND	20	2,755,336.30
TOTAL FOR APPROVAL		\$3,051,790.30



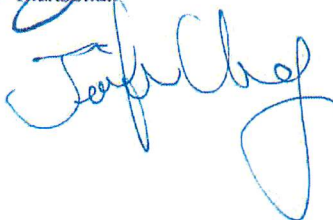
THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 10172 THROUGH 10190 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 22772 THROUGH 22870 INCLUSIVE, TOTALING IN THE AMOUNT OF \$3,051,790.30, HAVE BEEN CHECKED IN DETAIL AND APPROVED BY THE PROPER OFFICIALS, AND IN MY OPINION REPRESENT FAIR AND JUST CHARGES AGAINST THE AUTHORITY IN ACCORDANCE WITH THEIR RESPECTIVE AMOUNTS AS INDICATED THEREON.

RESPECTFULLY SUBMITTED,


DEPUTY TREASURER

2/26/18

DATE


2/23/2018

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2-27-18

SILICON VALLEY CLEAN WATER
WARRANT REGISTER
02/23/18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
AIRGAS USA, LLC	22772		408.65		
SUPPLIES		9949831073 11/17 CYLINDER RENTAL GASES		42.00	18
		9949831073 11/17 CYLINDER RENTAL GASES		189.00	18
		9949831073 11/17 CYLINDER RENTAL GASES		7.47	18
		9951245623 1/18 CYLINDER RENTAL GASES		45.88	18
		9951245623 1/18 CYLINDER RENTAL GASES		116.56	18
		9951245623 1/18 CYLINDER RENTAL GASES		7.74	18
ALLSTEEL	22773		1,031.05		
CONSTRUCTION-CONTRACTOR		44759700 QTY 1 ADAPTIVE 36" ROUND CONF. TABLE		1,031.05	14
ALPHA ANALYTICAL LABORATORIES	22774		1,426.25		
CONTRACT SERV. (NON-MAINT.)		8013891RPSVCW PLANT PERMIT LAB ANALYSIS		991.25	18
		8021149RPSVCW PLANT PERMIT LAB ANALYSIS		255.00	18
		8021264RPSVCW RWC LAB ANALYSIS		90.00	18
		8021277RPSVCW RWC LAB ANALYSIS		90.00	18
APEX LIFE SCIENCES, LLC	22775		2,038.76		
CONTRACT SERV. (NON-MAINT.)		LAB550399429 W/E 1/6/18 LAB TEMPORARY STAFF WORKER - D		586.25	18
		LAB550406343 W/E 1/27/18 LAB TEMPORARY STAFF WORKER -		1,452.51	18
AT&T	22776		330.74		
UTILITIES		2072018196059 2/7-3/6/18 AT&T SERVICES MPPS		66.91	18
		2072018201511 2/7-3/6/18 AT&T SERVICES BLPS		66.91	18
		2072018215339 2/7-3/6/18 AT&T SERVICES RWCPs		98.46	18
		2072018224836 2/7-3/6/18 AT&T SERVICES SCPS		98.46	18
ATMOSPHERIC ANALYSIS & CONSULT	22777		1,918.00		
CONTRACT SERV. (NON-MAINT.)		A17936 ANALYSIS & REPORTING-SILOXANES & SULFUR COMPOUN		1,918.00	18
BARNARD BESSAC JOINT VENTURE	22778		666,797.44		
CONST.-ADMIN. & LEGAL		3POM10914 1/1-1/31/18 PRG PMT#3 GRAVITY PIPELINE - STA		666,797.44	20

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SILICON VALLEY CLEAN WATER
WARRANT REGISTER
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
BEECHER ENGINEERING	22779		156,832.00		
CONSTRUCTION-CONTRACTOR		11860 1/1-1/21/18 T.O.2017-03 12KV SWITCHGEAR PROJ		31,941.00	20
		111746 10/25-11/24/17 T.O.2017-03 12KV SWITCHGEAR PROJ		64,727.00	20
		121760 11/25-12/22/17 T.O.2017-03 12KV SWITCHGEAR PROJ		60,164.00	20
BROWN & CALDWELL	22780		154,491.35		
CONSTRUCTION-DESIGN		11309097 THRU 12/28/17 T.O.2017-03 MPPS PRELIM DESIGN		87,527.68	20
		11309101 11/24-12/28/17 T.O.2017-04 RWCPS PRELIM DESIG		66,963.67	20
BUCKLES SMITH ELECTRIC COMPANY	22781		5,365.42		
CONSTRUCTION-CONTRACTOR		307349701 VARIOUS ELECTRICAL PARTS		396.40	20
		307349702 VARIOUS ELECTRICAL PARTS		562.88	20
		307349702 VARIOUS ELECTRICAL PARTS		1,976.68	20
		307349703 VARIOUS ELECTRICAL PARTS		870.30	20
		307349703 VARIOUS ELECTRICAL PARTS		435.15	20
		307349703 VARIOUS ELECTRICAL PARTS		439.56	20
		307349704 VARIOUS ELECTRICAL PARTS		586.66	20
MACHINERY AND EQUIP MAINT MATE		307656500 VARIOUS ELECTRICAL PARTS		97.79	18
BURLINGAME ENGINEERS INC	22782		2,685.63		
CONSTRUCTION-CONTRACTOR		BER7572 QTY 1 200 GALLON IMFO HI DENSITY POLYETHYLENE		2,685.63	20
C. OVERAA & CO	22783		135,850.00		
CONSTRUCTION-CONTRACTOR		2POM10881 1/1-1/31/18 PRG PMT#2 THICKENING IMPROVEMENT		135,850.00	20
C.W.E.A. - TCP	22784		175.00		
TRAINING		ISS120617ID4187 REISSUE CHK 22034 DTD 12/29/17 VOIDED		175.00	18
CALIFORNIA DETAILERS, INC.	22785		430.00		
MACH & EQUIP MAINT SERVICES		45795 1/20/18 FLEET VEHICLE ON-SITE WASH		275.00	18
		45888 2/7/18 FLEET VEHICLE ON-SITE WASH - DETAIL INT/E		155.00	18

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SILICON VALLEY CLEAN WATER
WARRANT REGISTER
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CALIFORNIA ENVIRONMENTAL DEWAT CHEMICAL SUPPLIES	22786		22,438.24		
		1382 1/11/18 44940 CED 1004 POLYMER		21,503.79	19
		1382 1/11/18 44940 CED 1004 POLYMER		934.45	19
CALPERS - FISCAL SERVICES DIVI RETIREE MEDICAL PAYMENTS	22787		35,000.00		
		2232018 2/18 PREFUNDING OPEB		35,000.00	12
CALTEST ANALYTICAL LABORATORY CONTRACT SERV. (NON-MAINT.)	22788		58.50		
		581698 NUTRIENT PERMIT LAB ANALYSIS		58.50	18
CARBON ACTIVATED CORP. MISCELLANEOUS SUPPLIES	22789		12,355.50		
		41593 QTY 8800 ACTIVATED CARBON COCONUT SHELL		11,005.50	18
		41593 QTY 8800 ACTIVATED CARBON COCONUT SHELL		1,350.00	18
CASCADE INTEGRATION & DEVELOPM CONTRUCTION-DESIGN	22790		1,552.50		
		1458 1/18 T.O.2017-02 FOP RFP & STANDARD		388.12	20
		1458 1/18 T.O.2017-02 FOP RFP & STANDARD		388.12	20
		1458 1/18 T.O.2017-02 FOP RFP & STANDARD		388.13	20
		1458 1/18 T.O.2017-02 FOP RFP & STANDARD		388.13	20
CDW GOVERNMENT, INC. SMALL TOOLS SUPPLIES MISCELLANEOUS SUPPLIES	22791		6,181.93		
		LPR2971 IT EQUIPMENT - QTY 2 CYBER POWER 1000VA UPS W		228.38	18
		LPR2971 IT EQUIPMENT - QTY 2 CYBER POWER 1000VA UPS W		19.99	18
		LRG8848 IT EQUIPMENT - QTY 2 APC SMART UPS SRT 2200VA		2,747.63	18
		LRG8848 IT EQUIPMENT - QTY 2 APC SMART UPS SRT 2200VA		61.76	18
		LRZ0407 IT EQUIPMENT - QTY 20 SAMSUNG 850 PRO 256 GB S		3,124.17	18
CINTAS CORPORATION SUPPLIES	22792		711.21		
		5009986333 2/9/18 SAFETY AND FIRST AID SUPPLIES		453.09	18
		5009986354 2/15/18 SAFETY AND FIRST AID SUPPLIES		258.12	18

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SILICON VALLEY CLEAN WATER
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CINTAS CORPORATION NO. 3	22793		1,896.02		
SUPPLIES		464106571 2/6/18 LAUNDRY SERVICE		984.82	18
		464109435 2/13/18 LAUNDRY SERVICE		911.20	18
CLIPPER CONTROLS INC	22794		1,289.19		
MACH & EQUIP MAINT SERVICES		11098 TELEDYNE ISCO SERVICE LABOR AND PARTS		212.79	18
		11099 TELEDYNE ISCO SERVICE LABOR AND PARTS		1,076.40	18
COGSDALE CORPORATION	22795		83,832.43		
CONST.-ADMIN. & LEGAL		MN002736 12/21/17-12/20/18 REPLACES MN2724 WITH CORREC		66,000.00	20
		CT0003934 PROJECT MANAGEMENT SERVICES MONTH 3 AND SOFT		14,975.00	20
		XT0002317 12/3-12/7/17 ONSITE VISIT ROBERT STRICKLAND		2,857.43	20
COMCAST CORPORATION	22796		19,571.57		
UTILITIES		61579180 THRU 12/31/17 AND 1/31/18 COMCAST PHONE CHARG		9,294.05	18
		61579180 THRU 12/31/17 AND 1/31/18 COMCAST PHONE CHARG		9,409.19	18
		61582762 THRU 12/31/17 AND 1/31/18 COMCAST PHONE CHARG		432.76	18
		61582762 THRU 12/31/17 AND 1/31/18 COMCAST PHONE CHARG		435.57	18
COUNTY OF SAN MATEO - AIRPORT	22797		97,300.00		
CONST.-ADMIN. & LEGAL		2232018 3/18 PERMIT#5384 LEASE PMT SAN CARLOS AIRPORT		97,300.00	20
CPI INTERNATIONAL INC	22798		259.90		
SUPPLIES		20036338 LAB SUPPLIES		29.36	18
		20036338 LAB SUPPLIES		29.36	18
		20036338 LAB SUPPLIES		29.36	18
		20036338 LAB SUPPLIES		29.36	18
		20036338 LAB SUPPLIES		29.36	18
		20036338 LAB SUPPLIES		29.36	18
		20036338 LAB SUPPLIES		29.36	18
		20036338 LAB SUPPLIES		25.02	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
D.C. FROST ASSOCIATES INC.	22799		6,525.01		
MISCELLANEOUS		20252 QTY 1 HINGE, QTY 3 ANGLED TAIL MS		1,086.42	18
		20252 QTY 1 HINGE, QTY 3 ANGLED TAIL MS		5,438.59	18
DALY, MICK	22800		1,559.10		
CONSTRUCTION-DESIGN		2232018 REIM-1/29-2/3/18 TRAVEL EXPENSES - PACIFIC WAT		779.55	20
		2232018 REIM-1/29-2/3/18 TRAVEL EXPENSES - PACIFIC WAT		779.55	20
DAVEY TREE EXPERT COMPANY, THE	22801		2,285.00		
CONSTRUCTION-CONTRACTOR		912124954 1/5/18 TREE REMOVAL		2,285.00	20
DKF SOLUTIONS GROUP, LLC	22802		450.00		
CONTRACT SERV. (NON-MAINT.)		13721 02/2018 MY SAFETY OFFICER-MONTHLY SUBSCRIPTION F		450.00	18
DNS STRATEGIC PARTNERS, LLC	22803		35,332.43		
CONSTRUCTION-DESIGN		201801 1/18 T.O.2017-01 PROF CONSULTING SVCS - VARIOUS		35,332.43	20
EDGLEY, KIP D.	22804		25,252.09		
CONSTRUCTION-CONTRACTOR		1101802 1/8-2/4/18 SERVICES INSIDE CA		17,010.00	20
		1091801E REIM-12/4/17-1/7/18 OTHER EXPENSE-LIABILITY I		1,754.10	20
		1101802B 1/8-2/4/18 SERVICES OUTSIDE CA		3,510.00	20
		1101802C REIM-1/8-2/4/18 TRAVEL EXPENSE		4,168.69	20
		1101802D 7% NONRESIDENT WITHHOLDING		-1,190.70	20
MISCELLANEOUS					
ENVIRONMENTAL RESOURCE ASSOCIA	22805		890.55		
SUPPLIES		852034 LAB SUPPLIES, CHEMICALS		890.55	18
ERS INDUSTRIAL SERVICES, INC.	22806		145,407.10		
CONSTRUCTION-CONTRACTOR		22POM10604 12/17 PRG PMT#22 PRIMARY SEDIMENTATION TANK		72,703.55	20
		22POM10604 12/17 PRG PMT#22 PRIMARY SEDIMENTATION TANK		72,703.55	20

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SILICON VALLEY CLEAN WATER
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
FASTENAL COMPANY	22807		4,466.16		
SUPPLIES		CASAA57205 VENDOR MANAGED RESTOCK		2,470.20	18
MACHINERY AND EQUIP MAINT MATE		CASAA57206 VENDOR MANAGED RESTOCK		214.94	18
		CASAA57206 VENDOR MANAGED RESTOCK		31.97	18
		CASAA57206 VENDOR MANAGED RESTOCK		409.12	18
SUPPLIES		CASAA57207 VENDOR MANAGED RESTOCK		1,339.93	18
FED EX	22808		86.67		
SUPPLIES		606103723 12/6/17-1/11/18 FED EX CHARGES		34.20	18
		606103723 12/6/17-1/11/18 FED EX CHARGES		14.48	18
MACHINERY AND EQUIP MAINT MATE		606103723 12/6/17-1/11/18 FED EX CHARGES		27.01	18
SUPPLIES		606103723 12/6/17-1/11/18 FED EX CHARGES		10.98	18
FERGUSON ENTERPRISES INC	22809		1,080.08		
MACHINERY AND EQUIP MAINT MATE		5833499 QTY 1 SUMP PUMP HP PRG SER 1 PH 115V 2 DISC		1,080.08	18
FIRST SECURITY SERVICES	22810		9,697.50		
CONSTRUCTION-CONTRACTOR		551614 1/6-1/19/18 FOP & GP SECURITY PATROL SVCS		1,939.50	20
		551614 1/6-1/19/18 FOP & GP SECURITY PATROL SVCS		1,939.50	20
		551614 1/6-1/19/18 FOP & GP SECURITY PATROL SVCS		1,939.50	20
		551614 1/6-1/19/18 FOP & GP SECURITY PATROL SVCS		1,939.50	20
		551614 1/6-1/19/18 FOP & GP SECURITY PATROL SVCS		1,939.50	20
FISHER SCIENTIFIC COMPANY, LLC	22811		66.92		
SUPPLIES		8926949 LAB SUPPLIES		62.72	18
		8926949 LAB SUPPLIES		4.20	18
FITZGERALD LAW OFFICES	22812		9,692.40		
PROFESSIONAL SERVICES		2232018 1/18 GENERAL LEGAL SERVICES		2,322.00	18
		2232018B REIM-1/17 GENERAL LEGAL SERVICE EXPENSES		100.20	18
CONST.-ADMIN. & LEGAL		2232018C 1/18 PROF LEGAL SVCS-63"FM RELIABILITY IMPROV		7,170.00	20
		2232018D REIM-1/18 PROF LEGAL SVCS-63"FM RELIAB IMPRV		100.20	20

SILICON VALLEY CLEAN WATER
WARRANT REGISTER
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
PREYER & LAURETA, INC	22813		26,190.00		
CONST.-ADMIN. & LEGAL		18008 12/17 T.O.2017-06 OWNERS ADVISOR FOP		6,547.50	20
		18008 12/17 T.O.2017-06 OWNERS ADVISOR FOP		6,547.50	20
		18008 12/17 T.O.2017-06 OWNERS ADVISOR FOP		6,547.50	20
CONSTRUCTION-CONTRACTOR		18008 12/17 T.O.2017-06 OWNERS ADVISOR FOP		6,547.50	20
GETINGE USA SALES LLC	22814		2,877.53		
MACH & EQUIP MAINT SERVICES		6990597018 SCHEDULED MAINTENANCE PLAN FOR STERILIZER E		2,877.53	18
GLOBAL INDUSTRIAL	22815		1,556.06		
MACHINERY AND EQUIP MAINT MATE		112172383 QTY 1 EACH-SEMI-STEEL CASTERS, CHAIN LATCH,		691.66	18
		112172383 QTY 1 EACH-SEMI-STEEL CASTERS, CHAIN LATCH,		271.82	18
		112172383 QTY 1 EACH-SEMI-STEEL CASTERS, CHAIN LATCH,		73.90	18
SUPPLIES		112172383 QTY 1 EACH-SEMI-STEEL CASTERS, CHAIN LATCH,		518.68	18
GRAINGER	22816		2,890.34		
SUPPLIES		9682465092 RESTOCK ITEMS		86.04	18
		9682465092 RESTOCK ITEMS		41.19	18
		9682465092 RESTOCK ITEMS		73.84	18
		9682465092 RESTOCK ITEMS		18.90	18
		9682465092 RESTOCK ITEMS		80.80	18
		9682465092 RESTOCK ITEMS		54.26	18
MISCELLANEOUS		9690607552 RESTOCK ITEMS		62.44	18
		9690607552 RESTOCK ITEMS		667.01	18
		9690607552 RESTOCK ITEMS		22.32	18
SUPPLIES		9690607552 RESTOCK ITEMS		46.50	18
		9690607552 RESTOCK ITEMS		100.56	18
MISCELLANEOUS		9690607552 RESTOCK ITEMS		874.39	18
MACHINERY AND EQUIP MAINT MATE		9691494596 RESTOCK ITEMS		598.69	18
		9691494596 RESTOCK ITEMS		79.92	18
		9691494596 RESTOCK ITEMS		83.48	18

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HACH COMPANY	22817		5,971.87		
MACHINERY AND EQUIP MAINT MATE		10820100 QTY 2 1720E TURBIDITY SENSOR ASSEMBLY		2,939.52	18
MISCELLANEOUS		10820100 QTY 2 1720E TURBIDITY SENSOR ASSEMBLY		2,939.51	18
SUPPLIES		10820100 QTY 2 1720E TURBIDITY SENSOR ASSEMBLY		92.84	18
HAMNER, JEWELL & ASSOCIATES	22818		10,736.20		
CONST.-ADMIN. & LEGAL		9051 7/1-8/15/17 CONVEYANCE SYSTEM		697.00	20
		9272 11/16-12/15/17 CONVEYANCE SYSTEM		4,323.00	20
		9315 12/16/17-1/15/18 CONVEYANCE SYSTEM		5,716.20	20
HANSON BRIDGETT LLP	22819		15,839.00		
CONST.-ADMIN. & LEGAL		1206949 12/1-12/7/17 T.O.2017-02 LEGAL SVCS-PUBLIC WOR		148.58	20
		1206949 12/1-12/7/17 T.O.2017-02 LEGAL SVCS-PUBLIC WOR		148.58	20
		1206949 12/1-12/7/17 T.O.2017-02 LEGAL SVCS-PUBLIC WOR		148.58	20
		1206949 12/1-12/7/17 T.O.2017-02 LEGAL SVCS-PUBLIC WOR		148.58	20
PROFESSIONAL SERVICES		1206949 12/1-12/7/17 T.O.2017-02 LEGAL SVCS-PUBLIC WOR		51.68	18
CONST.-ADMIN. & LEGAL		1206950 12/1-12/21/17 T.O.2017-02 LEGAL SVCS-WNTY CLAI		3,494.39	20
		1206950 12/1-12/21/17 T.O.2017-02 LEGAL SVCS-WNTY CLAI		3,494.39	20
		1206950 12/1-12/21/17 T.O.2017-02 LEGAL SVCS-WNTY CLAI		3,494.39	20
		1206950 12/1-12/21/17 T.O.2017-02 LEGAL SVCS-WNTY CLAI		3,494.39	20
PROFESSIONAL SERVICES		1206950 12/1-12/21/17 T.O.2017-02 LEGAL SVCS-WNTY CLAI		1,215.44	18
HAROONI, RAMIN	22820		146.94		
SUPPLIES		2232018 REIM-2/15/18 SAFETY SHOES		156.74	18
MISCELLANEOUS		2232018TAX SALES TAX LIABILITY		-9.80	18
HARRINGTON INDUST PLASTICS	22821		104.99		
MISCELLANEOUS		3L8212 PLUMBING SUPPLIES		104.99	18

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HILLYARD INC	22822		1,153.23		
MISCELLANEOUS		602861119 JANITOR SUPPLIES		205.64	18
		602861119 JANITOR SUPPLIES		287.62	18
		602861119 JANITOR SUPPLIES		187.33	18
		602861119 JANITOR SUPPLIES		74.93	18
		602861119 JANITOR SUPPLIES		48.22	18
		602861119 JANITOR SUPPLIES		113.40	18
		602861119 JANITOR SUPPLIES		152.69	18
		602861119 JANITOR SUPPLIES		53.45	18
SUPPLIES		602861119 JANITOR SUPPLIES		29.95	18
HOPKINS TECHNICAL PRODUCTS, IN	22823		354.42		
MACHINERY AND EQUIP MAINT MATE		3618300086 QTY 5 ELECTROLYTE CGE2 WITH BOTTLE 50ML		354.42	18
INTUITIVE TACTICAL CONSULTING	22824		27,429.94		
PROFESSIONAL SERVICES		1015 IT SUPPORT SERVICES - RECOVERY OF DELL SWITCH, UP		4,725.00	18
SUPPLIES		1018 IT SUPPORT SERVICES - VEDGE CLOUD SOFTWARE LICENS		13,275.00	18
SMALL TOOLS		1019 IT SUPPORT SERVICES - AEROHIVE NETWORKS INC SUPPO		8,876.24	18
		1019 IT SUPPORT SERVICES - AEROHIVE NETWORKS INC SUPPO		553.70	18
JENTECH SERVICES	22825		7,720.20		
MACH & EQUIP MAINT SERVICES		2248 2/5-2/15/18 INSTRUMENT CALIBRATION		3,060.00	18
		2248 2/5-2/15/18 INSTRUMENT CALIBRATION		1,836.00	18
		2248 2/5-2/15/18 INSTRUMENT CALIBRATION		612.00	18
		2248 2/5-2/15/18 INSTRUMENT CALIBRATION		2,212.20	18

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KENNEDY/JENKS CONSULTANTS, INC	22826		327,072.12		
CONSTRUCTION-DESIGN		113537 THRU 7/7/17 T.O.2016-12 PREP DECISION TOOL		5,304.02	20
		113537 THRU 7/7/17 T.O.2016-12 PREP DECISION TOOL		5,304.02	20
		117462 THRU 11/24/17 T.O.2016-12 PREP DECISION TOOL		2,761.12	20
		117462 THRU 11/24/17 T.O.2016-12 PREP DECISION TOOL		2,761.13	20
CONST.-ADMIN. & LEGAL		118049 7/11-11/24/17 T.O.2017-07 DESIGN STANDARDS PROJ		1,015.03	20
		118049 7/11-11/24/17 T.O.2017-07 DESIGN STANDARDS PROJ		15,225.50	20
		118049 7/11-11/24/17 T.O.2017-07 DESIGN STANDARDS PROJ		68,007.25	20
		118049 7/11-11/24/17 T.O.2017-07 DESIGN STANDARDS PROJ		3,045.10	20
		118049 7/11-11/24/17 T.O.2017-07 DESIGN STANDARDS PROJ		13,195.43	20
		118049 7/11-11/24/17 T.O.2017-07 DESIGN STANDARDS PROJ		1,015.03	20
CONSTRUCTION-DESIGN		118505 THRU 12/29/17 T.O.2016-12 PREP DECISION TOOL		2,978.05	20
		118505 THRU 12/29/17 T.O.2016-12 PREP DECISION TOOL		2,978.03	20
		118610 9/14-12/29/17 T.O.2017-06 DIGESTER#1 REHAB-ENG		36,054.83	20
		118721 10/5-12/29/17 T.O.2017-12 12KV PRIM SWITCHGEAR-		167,427.58	20
LEIGHTON STONE CORPORATION	22827		2,307.10		
MISCELLANEOUS		1166063 QTY 4 VITON PRESSURE GAUGE		2,307.10	18
LENSCRAFTERS	22828		155.00		
SUPPLIES		1805525817 SAFETY GLASSES - LECHUGA, SANTIAGO		155.00	18
MADCO WELDING SUPPLY CO	22829		502.70		
RENTAL/LEASES		2210 1/31/18 CYLINDER RENTAL		87.50	18
SUPPLIES		G53320 1/31/18 COMPRESSED GASES		415.20	18
MARINE SCIENCE INSTITUTE	22830		4,378.00		
CONTRACT SERV. (NON-MAINT.)		9875 ENVIRONMENTAL EDUCATION PROGRAMS - 4/25-4/26/18 D		4,378.00	18
MISCO WATER	22831		297,822.60		
CONSTRUCTION-CONTRACTOR		12388PABR FINAL INV-INSTALL BASIN1 & LABOR FOR MIXER R		297,822.60	20

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MOBILE MODULAR MANAGEMENT CORP	22832		46,853.58		
CONST.-ADMIN. & LEGAL		1506024 12/1-12/30/17 RENT/DELIVERY/INSTALLATION-OFFIC		4,584.83	20
		1506024 12/1-12/30/17 RENT/DELIVERY/INSTALLATION-OFFIC		4,584.84	20
		1506024 12/1-12/30/17 RENT/DELIVERY/INSTALLATION-OFFIC		4,584.83	20
		1506024 12/1-12/30/17 RENT/DELIVERY/INSTALLATION-OFFIC		4,584.84	20
		1506024 12/1-12/30/17 RENT/DELIVERY/INSTALLATION-OFFIC		4,584.84	20
		1507661 12/1-12/30/17 RENT/DRAWINGS/MODS/INSTALL-OFFIC		4,634.98	20
		1507661 12/1-12/30/17 RENT/DRAWINGS/MODS/INSTALL-OFFIC		4,634.98	20
		1507661 12/1-12/30/17 RENT/DRAWINGS/MODS/INSTALL-OFFIC		4,634.98	20
		1507661 12/1-12/30/17 RENT/DRAWINGS/MODS/INSTALL-OFFIC		4,634.99	20
		1507661 12/1-12/30/17 RENT/DRAWINGS/MODS/INSTALL-OFFIC		4,634.95	20
		1546642 1/30-2/28/18 RENT - RESTROOM 8X20 HCD		150.91	20
		1546642 1/30-2/28/18 RENT - RESTROOM 8X20 HCD		150.91	20
		1546642 1/30-2/28/18 RENT - RESTROOM 8X20 HCD		150.90	20
		1546642 1/30-2/28/18 RENT - RESTROOM 8X20 HCD		150.90	20
CONSTRUCTION-CONTRACTOR		1546642 1/30-2/28/18 RENT - RESTROOM 8X20 HCD		150.90	20
MOTION INDUSTRIES INC.	22833		3,270.79		
MACHINERY AND EQUIP MAINT MATE		CA24027008 VARIOUS SIZES HOSE ENDS/STEEL CLAMPS		1,591.15	18
SUPPLIES		CA24027449 VARIOUS SIZES HOSE ENDS/STEEL CLAMPS		928.94	18
MISCELLANEOUS		CA24028066 VARIOUS SIZES HOSE ENDS/STEEL CLAMPS		750.70	18
NAVIA BENEFIT SOLUTIONS	22834		963.00		
ADMINISTRATIVE EXPENSES		10118767 1/2018 PARTICIPANT FEE		963.00	18
NEWARK ELEMENT14	22835		154.99		
MACHINERY AND EQUIP MAINT MATE		29724780 QTY 1 JUNCTION BOX FIBERGLASS GRAY ENCLOSURE		140.06	18
SUPPLIES		29724780 QTY 1 JUNCTION BOX FIBERGLASS GRAY ENCLOSURE		14.93	18

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OFFICE DEPOT	22836		1,870.29		
SUPPLIES		102698028001 OFFICE SUPPLIES		140.47	18
OFFICE SUPPLIES		102717050001 OFFICE SUPPLIES		138.57	18
		102717050001 OFFICE SUPPLIES		257.08	18
		102718195001 OFFICE SUPPLIES		41.77	18
SUPPLIES		103642629001 CREDIT MEMO ON INV 992851103001		-250.11	18
		103643621001 OFFICE SUPPLIES		250.11	18
		104207179001 CREDIT MEMO FOR INV 102698028001		-140.47	18
		104207180001 OFFICE SUPPLIES		114.62	18
		104207181002 OFFICE SUPPLIES		19.13	18
		104207182001 OFFICE SUPPLIES		6.72	18
OFFICE SUPPLIES		1044332568001 OFFICE SUPPLIES		227.65	18
		104433161001 OFFICE SUPPLIES		21.52	18
		104433162001 OFFICE SUPPLIES		14.45	18
SUPPLIES		989901299001 CREDIT MEMO FOR INV 989145033001		-197.32	18
		994295370001 OFFICE SUPPLIES		160.99	18
OFFICE SUPPLIES		994295370001 OFFICE SUPPLIES		94.21	18
		994906157001 OFFICE SUPPLIES		19.63	18
		996308079001 OFFICE DEPOT		298.07	18
		997509439001 OFFICE SUPPLIES		38.04	18
		997509881001 OFFICE SUPPLIES		76.11	18
SUPPLIES		998005490001 OFFICE SUPPLIES		418.38	18
OFFICE SUPPLIES		998614373001 OFFICE SUPPLIES		120.67	18
OGASAWARA LANDSCAPE MAINTENANC	22837		350.00		
CONTRACT SERV. (NON-MAINT.)		24631 2/13/18 MISC LANDSCAPING		350.00	18
PACE SUPPLY CORP	22838		16.49		
MACHINERY AND EQUIP MAINT MATE		94347749 PLUMBING SUPPLIES		16.49	18
PACIFIC GAS & ELECTRIC COMPANY	22839		800.00		
CONST.-ADMIN. & LEGAL		9732000 PG&E INTERCONNECTION RULE21 STUDY-REQUEST FEE		800.00	20

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PACIFIC GAS & ELECTRIC COMPANY	22840		10,000.00		
CONST.-ADMIN. & LEGAL		9732000B PG&E INTERCONNECTION RULE21 DETAILED STUDY		10,000.00	20
PACIFIC GAS AND ELECTRIC COMPA	22841		29,385.24		
UTILITIES		77036572 12/17 DEPARTING LOAD REF#8000257953		12,544.18	18
		202201865919 12/31/17-1/31/18 COGEN GAS		757.02	18
		212201823701 1/12-2/12/18 PLANT GAS		4,697.05	18
		216201819225 1/11-2/11/18 SCPS ELECTRIC		4,790.90	18
		216201888673 1/12-2/12/18 BLPS ELECTRIC		2,453.96	18
		216201890892 1/12-2/12/18 1406 RADIO RD GAS & ELECTRIC		932.04	18
		EISS10192017886 REISSUED FOR AP 2/23/18 9/15/17-10/13/		2,681.19	18
		EISS10192017908 REISSUED FOR AP 2/23/18 9/15/17-10/13/		528.90	18
PENINSULA BATTERY, INC.	22842		187.02		
MISCELLANEOUS		124323 QTY 4 BATTERIES		187.02	18
PUMPING SOLUTIONS INC	22843		2,873.18		
MACHINERY AND EQUIP MAINT MATE		3021076 QTY 1 WILDEN PRO FLO SHIFT AIR OPERATED DIAPHR		2,873.18	18

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R & B COMPANY	22844		438.37		
MACHINERY AND EQUIP MAINT MATE		S1710930001 CREDIT MEMO FOR R&B INV S1545273001, S1390		-696.90	18
		S1706426001 PLUMBING SUPPLIES		26.10	18
		S1706426001 PLUMBING SUPPLIES		300.36	18
		S1711908001 PLUMBING SUPPLIES		26.61	18
		S1711908001 PLUMBING SUPPLIES		16.49	18
		S1711908001 PLUMBING SUPPLIES		20.35	18
		S1711908001 PLUMBING SUPPLIES		24.86	18
		S1711908001 PLUMBING SUPPLIES		14.36	18
		S1711908001 PLUMBING SUPPLIES		17.81	18
		S1711908001 PLUMBING SUPPLIES		32.65	18
		S1711908001 PLUMBING SUPPLIES		18.11	18
		S1711908001 PLUMBING SUPPLIES		16.59	18
		S1713653001 PLUMBING SUPPLIES		620.98	18
R-SQUARED ENGINEERING, INC.	22845		3,375.29		
MISCELLANEOUS		117567 VARIOUS GEARS AND JOINTS		52.20	18
		117567 VARIOUS GEARS AND JOINTS		3,323.09	18
R.E.P. NUT N BOLT GUY	22846		493.18		
SUPPLIES		28672 VARIOUS NUTS & BOLTS		493.18	18
R.F. MACDONALD CO.	22847		3,563.90		
MACHINERY AND EQUIP MAINT MATE		256034 QTY 1 PACO PUMP		3,563.90	18
REDWOOD CITY, CITY OF - FINANC	22848		11,498.16		
PROFESSIONAL SERVICES		BR47018 1/18 ACCOUNTING SERVICES		11,498.16	18
RKI INSTRUMENTS INC.	22849		488.52		
MACHINERY AND EQUIP MAINT MATE		341532 QTY 1 J-BOX W/DETECTORS		478.50	18
		341532 QTY 1 J-BOX W/DETECTORS		10.02	18

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RODAN BUILDERS, INC	22850		13,363.65		
CONSTRUCTION-CONTRACTOR		2POM10846 10/31-12/30/17 PRG PMT#2 PLANT CTRL BLD OFFI		13,363.65	14
S & S SUPPLIES AND SOLUTIONS	22851		700.08		
MISCELLANEOUS		S3157925001 QTY 5 OXYGEN SENSOR		700.08	18
SANDUL, DUANE	22852		1,700.00		
PROFESSIONAL SERVICES		1SVCW2018 1/2018 PROFESSIONAL SERVICES		1,700.00	18
SHAPE INCORPORATED	22853		5,626.73		
MACHINERY AND EQUIP MAINT MATE		123926 QTY 2 MF3068 HT FLYGT GRINDER		2,813.37	18
MISCELLANEOUS		123926 QTY 2 MF3068 HT FLYGT GRINDER		2,813.36	18
SIERRA RESEARCH INC	22854		530.00		
CONTRUCTION-DESIGN		1176551 1/1-1/30/18 PROF SVCS - INITIAL DISCUSSION W/		530.00	20
SILICON VALLEY CLEAN WATER (EE	22855		150.00		
SUPPLIES		2232018 3/18 COMPENSATION - EMPLOYEE ANNIVERSARY		150.00	18
SILICON VALLEY CLEAN WATER (SA	22856		2,000.00		
ADMINISTRATIVE EXPENSES		2232018 2/18 SAFETY INCENTIVE		2,000.00	18
SOUTH BAY CRANE AND RIGGING	22857		3,000.00		
RENTAL/LEASES		10697 12/14/17 CRANE SERVICE		3,000.00	18
SUBURBAN PROPANE LP	22858		127.46		
UTILITIES		1644015019 6/16/17 PROPANE REFILL		12.83	18
		1644015019 6/16/17 PROPANE REFILL		114.63	18
T & T VALVE AND INSTRUMENT INC	22859		616.59		
MISCELLANEOUS		54222 QTY 10 VALVE		616.59	18

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TANNER PACIFIC, INC.	22860		481,905.92		
CONSTRUCTION-DESIGN	218008	1/14-1/20/18 T.O.2017-07 CONSTRUCTION MGMT VARI	53,543.11		20
CONST.-ADMIN. & LEGAL	218013	1/14-1/20/18 T.O.2017-10 FOP-STAGE1,QA & P6 IMP	8,941.57		20
CONSTRUCTION-CONTRACTOR	218013	1/14-1/20/18 T.O.2017-10 FOP-STAGE1,QA & P6 IMP	8,941.57		20
CONST.-ADMIN. & LEGAL	218013	1/14-1/20/18 T.O.2017-10 FOP-STAGE1,QA & P6 IMP	8,941.57		20
	218013	1/14-1/20/18 T.O.2017-10 FOP-STAGE1,QA & P6 IMP	8,941.57		20
CONSTRUCTION-DESIGN	218018	1/21-2/3/18 T.O.2017-07 CONSTRUCTION MGMT VARIO	84,062.00		20
CONSTRUCTION-CONTRACTOR	218019	1/21-2/3/18 T.O.2017-10 FOP-STAGE1,QA & P6 IMPL	55,306.32		20
CONST.-ADMIN. & LEGAL	218019	1/21-2/3/18 T.O.2017-10 FOP-STAGE1,QA & P6 IMPL	55,306.31		20
	218019	1/21-2/3/18 T.O.2017-10 FOP-STAGE1,QA & P6 IMPL	55,306.31		20
	218019	1/21-2/3/18 T.O.2017-10 FOP-STAGE1,QA & P6 IMPL	55,306.31		20
CONSTRUCTION-CONSTRUCTION MGMT	218020	1/21-2/10/18 T.O.2017-08 GRAVITY PIPELINE	18,062.50		20
	218012R1	1/14-1/20/18 T.O.2017-08 GRAVITY PIPELINE	69,246.78		20
TELEPACIFIC COMMUNICATIONS	22861		1,533.77		
UTILITIES	1001918500	2/9-3/8/18 TELEPACIFIC SERVICES	383.45		18
	1001918500	2/9-3/8/18 TELEPACIFIC SERVICES	383.44		18
	1001918500	2/9-3/8/18 TELEPACIFIC SERVICES	383.44		18
	1001918500	2/9-3/8/18 TELEPACIFIC SERVICES	383.44		18
THATCHER COMPANY OF CALIFORNIA	22862		7,882.44		
CHEMICAL SUPPLIES	247425	1/23/18 45020 LB TRIOXYN	7,882.44		18
UNITED SITE SERVICES OF CALIFORNIA	22863		1,500.69		
CONSTRUCTION-CONTRACTOR	1146269953	1/15-2/11/18 WEEKLY SVC, DMG WAIVER & HOLDI	300.13		20
	1146269953	1/15-2/11/18 WEEKLY SVC, DMG WAIVER & HOLDI	300.14		20
	1146269953	1/15-2/11/18 WEEKLY SVC, DMG WAIVER & HOLDI	300.14		20
	1146269953	1/15-2/11/18 WEEKLY SVC, DMG WAIVER & HOLDI	300.14		20
	1146269953	1/15-2/11/18 WEEKLY SVC, DMG WAIVER & HOLDI	300.14		20

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UNIVAR USA INC.	22864		12,358.35		
CHEMICAL SUPPLIES		SJ861320 1/28/18 3500 GAL SOD HYPO		1,857.45	18
		SJ862084 2/1/18 4394.95 GAL BISULFITE		6,213.37	18
		SJ862464 2/3/18 4001 GAL SOD HYPO		2,123.34	18
		SJ863141 2/8/18 4078 GAL SOD HYPO		2,164.19	18
US POSTAL SERVICE (POSTAGE-BY- OFFICE SUPPLIES	22865	2232018 POSTAGE REFILL-A/C18400358	350.00	350.00	18
USA BLUE BOOK SUPPLIES MISCELLANEOUS	22866	489422 QTY 1 NEPTUNE HGL TOTE MIXER 430 RPM 489422 QTY 1 NEPTUNE HGL TOTE MIXER 430 RPM	1,933.05	138.73 1,794.32	18 18
VWR INTERNATIONAL, LLC SUPPLIES MISCELLANEOUS SUPPLIES	22867	8081184459 CREDIT MEMO FOR INV 8080858223 8081140715 LAB SUPPLIES 8081172337 LAB SUPPLIES 8081172338 LAB SUPPLIES 8081180040 LAB SUPPLIES 8081180040 LAB SUPPLIES 8081213097 LAB SUPPLIES 8081232669 LAB SUPPLIES 8081262085 LAB SUPPLIES	3,442.13	-133.22 228.44 747.66 132.62 101.42 158.60 60.83 378.62 860.87	18 18 18 18 18 18 18 18 18
		8081277855 LAB SUPPLIES 8081297436 LAB SUPPLIES 8081302407 LAB SUPPLIES 8081305166 LAB SUPPLIES		103.97 30.36 324.29 447.67	18 18 18 18
WATER ENVIRONMENT FEDERATION MEMB. & MEET.	22868	2232018ID178288 MEMBERSHIP RENEWAL FOR ERIC HANSEN ID	320.00	320.00	18

2/10/18-2/23/18

7B-19

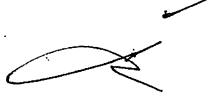
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
WEST YOST ASSOCIATES	22869		5,705.41		
CONST.-ADMIN. & LEGAL		2034211 12/2/17-1/5/18 T.O.2016-03 SRF FINANCIAL SVCS		5,705.41	20
CONTRUCTION-DESIGN		2034293 12/2/17-1/5/18 T.O.2014-03 54"FM REPLACEMENT -		1,112.50	20
		2034293CR 12/2/17-1/5/18 T.O.2017-03 PMT OF RETAINER-5		-1,112.50	20
WRA ENVIRONMENTAL CONSULTANTS	22870		235.50		
CONTRUCTION-DESIGN		201712131618 12/17 T.O.2017-01 FEASIBILITY INVESTIGATI		235.50	20

TOTAL

\$3,051,790.30



SVCW WARRANT REGISTER

SVCW Warrant Register for the period covering January 13, 2018 to January 26, 2018. A scanned copy was e-mailed to Commissioners on January 30, 2018.

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FUND RECAP

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NAME	FUND	AMOUNT
PAYROLL REVOLVING	11	70.00
CAPITAL IMPROVEMENT FUND	14	302,952.61
OPERATION	18	368,008.12
PLANT - CIP BOND	20	2,272,326.87
TOTAL FOR APPROVAL		\$2,943,357.60

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 10123 THROUGH 10145 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 22530 THROUGH 22635 INCLUSIVE, TOTALING IN THE AMOUNT OF \$2,943,357.60, HAVE BEEN CHECKED IN DETAIL AND APPROVED BY THE PROPER OFFICIALS, AND IN MY OPINION REPRESENT FAIR AND JUST CHARGES AGAINST THE AUTHORITY IN ACCORDANCE WITH THEIR RESPECTIVE AMOUNTS AS INDICATED THEREON.

RESPECTFULLY SUBMITTED,


.....
DEPUTY TREASURER

1/26/18
DATE

 1/24/2018

1/13/18-1/26/18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
AIRGAS USA, LLC	22530		243.60		
SUPPLIES		9950540364 12/17 CYLINDER RENTAL GASES		45.88	18
		9950540364 12/17 CYLINDER RENTAL GASES		189.88	18
		9950540364 12/17 CYLINDER RENTAL GASES		7.84	18
ALL INDUSTRIAL ELECTRIC SUPPLY	22531		453.75		
SUPPLIES		5174976 QTY 10 LEV T5262W		134.24	18
MACHINERY AND EQUIP MAINT MATE		5176594 LIGHTING SUPPLIES		64.60	18
		5176594 LIGHTING SUPPLIES		64.60	18
MISCELLANEOUS		5176595 LIGHTING SUPPLIES		190.31	18
ALPHA ANALYTICAL LABORATORIES	22532		255.00		
CONTRACT SERV. (NON-MAINT.)		7123611RPSVCW PLANT PERMIT LAB ANALYSIS		255.00	18
AMERICAN CHEMICAL SOCIETY	22533		186.00		
MEMB. & MEET.		16846420 2018 ACS MEMBERSHIP - WANDRO		186.00	18
ANAERGIA TECHNOLOGIES LLC	22534		14,999.70		
CONSTRUCTION-CONTRACTOR		10IN1046 ONE HIGH-SOLIDS MIXING SYSTEM - COMMENCE FABR		14,999.70	20
ANALYSTS, INC.	22535		100.65		
MACH & EQUIP MAINT SERVICES		M1768152 LAB ANALYSIS		100.65	18
AON RISK INSURANCE SERVICES WE	22536		35,000.00		
CONST.-ADMIN. & LEGAL		1139023 DEDUCTIBLE REIMBURSEMENT - CLAIMANT BENITOS CA		35,000.00	20
APEX LIFE SCIENCES, LLC	22537		1,400.00		
CONTRACT SERV. (NON-MAINT.)		LAB550388661 W/E 12/2/17 LAB TEMPORARY STAFF WORKER -		1,400.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
AQUA SCIENCE	22538		4,850.00		
MISCELLANEOUS		SVCW02TAX SALES TAX LIABILITY		-389.38	18
SMALL TOOLS		SVCW02 QTY 2 CHILLER COMPRESSORS WITH 1000W HEATER		2,407.25	18
		SVCW02 QTY 2 CHILLER COMPRESSORS WITH 1000W HEATER		2,512.13	18
SUPPLIES		SVCW02 QTY 2 CHILLER COMPRESSORS WITH 1000W HEATER		320.00	18
AT&T	22539		330.74		
UTILITIES		107201801511 1/7-2/6/18 AT&T SERVICES MPPS		66.91	18
		107201815339 1/7-2/6/18 AT&T SERVICES SCPS		98.46	18
		107201824836 1/7-2/6/18 AT&T SERVICES RWCPS		98.46	18
		107201896059 1/7-2/6/18 AT&T SERVICES BLPS		66.91	18
ATMOSPHERIC ANALYSIS & CONSULT	22540		410.00		
CONTRACT SERV. (NON-MAINT.)		A17827 ANALYSIS & REPORTING-SILOXANES & SULFUR COMPOUN		410.00	18
BARNARD BESSAC JOINT VENTURE	22541		585,237.64		
CONST.-ADMIN. & LEGAL		2POM10914 12/1-12/31/17 PRG PMT#2 GRAVITY PIPELINE - S		585,237.64	20
BAY AREA AIR QUALITY MANAGEMEN	22542		1,946.00		
ADMINISTRATIVE EXPENSES		4CJ34 3/1/18-3/1/20 ANNUAL PERMIT RENEWAL SCPS SITE A1		1,946.00	18
BAY CITY ELECTRIC WORKS	22543		106,995.49		
CONSTRUCTION-CONTRACTOR		JC108310 5/1-12/1/17 WET SIDE REDUNDANT POWER IMPROVEM		106,995.49	20
BAY RUBBER COMPANY	22544		76.54		
MISCELLANEOUS		18291000 PLUMBING SUPPLIES		76.54	18
BIG JOE HANDLING SYSTEMS	22545		15.05		
MACHINERY AND EQUIP-MAINT MATE		402569 QTY 4 LIFT TRUCK PARTS		15.05	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
BLACK BOX NETWORK SERVICES	22546		790.44		
MACHINERY AND EQUIP MAINT MATE		IN0572544 QTY 3 MULTIMODE CONVERTERS		263.48	18
MISCELLANEOUS		IN0572544 QTY 3 MULTIMODE CONVERTERS		526.96	18
BROWN & CALDWELL	22547		2,972.25		
CONTRUCTION-DESIGN		11307389 10/27-11/23/17 T.O.2015-06 PRIMARY SEDIMENTAT		2,229.19	20
		11307389 10/27-11/23/17 T.O.2015-06 PRIMARY SEDIMENTAT		743.06	20
C. OVERAA & CO	22548		24,700.00		
CONSTRUCTION-CONTRACTOR		1POM10881 10/26-12/31/17 PRG PMT#1 THICKENING IMPROVEM		24,700.00	20
C.W.E.A.	22549		180.00		
MEMB. & MEET.		1082018ID000324425I CWEA ASSN MEMBERSHIP-LEE, DAVID		180.00	18
CALIFORNIA SANITATION RISK MAN	22550		84,155.00		
ADMINISTRATIVE EXPENSES		6209 12/31/17-12/31/18 PLP POOLED DEPOSIT LESS PLP RET		84,155.00	18
CALTEST ANALYTICAL LABORATORY	22551		58.50		
CONTRACT SERV. (NON-MAINT.)		580830 NUTRIENT PERMIT LAB ANALYSIS		58.50	18
CALTROL, INC.	22552		498.51		
MACHINERY AND EQUIP MAINT MATE		CD99035530 QTY 6 120/60 VAC		498.51	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CASCADE INTEGRATION & DEVELOPM CONSTRUCTION-DESIGN	22553		32,298.10		
		1378 9/17 T.O.2017-01 FRONT OF PLANT		4,499.21	20
		1378 9/17 T.O.2017-01 FRONT OF PLANT		4,499.21	20
		1378 9/17 T.O.2017-01 FRONT OF PLANT		4,499.21	20
		1400 10/17 T.O.2017-01 FRONT OF PLANT		341.83	20
		1400 10/17 T.O.2017-01 FRONT OF PLANT		341.82	20
		1400 10/17 T.O.2017-01 FRONT OF PLANT		341.82	20
		1402 10/17 T.O.2017-02 POP RFP & STANDARD		4,044.38	20
		1402 10/17 T.O.2017-02 POP RFP & STANDARD		4,044.38	20
		1402 10/17 T.O.2017-02 POP RFP & STANDARD		4,044.37	20
		1402 10/17 T.O.2017-02 POP RFP & STANDARD		4,044.37	20
		1408 11/17 T.O.2017-02 POP RFP & STANDARD		399.37	20
		1408 11/17 T.O.2017-02 POP RFP & STANDARD		399.37	20
		1408 11/17 T.O.2017-02 POP RFP & STANDARD		399.38	20
		1408 11/17 T.O.2017-02 POP RFP & STANDARD		399.38	20
CDW GOVERNMENT, INC.	22554		1,630.76		
SUPPLIES		LGG4839 QTY 10 MICROSOFT SOFTWARE SLD+ WIN SVR STD COR		870.00	18
MACHINERY AND EQUIP MAINT MATE		LHL0446 QTY 2 APC SMART UPS 750VA 120V LCD		635.83	18
MISCELLANEOUS		LJR8806 QTY 4 BELKIN SURGEPRO 1800J 8 OUTLET 6 FEET		124.93	18
CHILD, CHRISTOPHER	22555		95.00		
TRAINING		1262018 REIM-CERTIFICATION RENEWAL - CWEA TCP MT-3		95.00	18
CINTAS CORPORATION NO. 3	22556		1,819.66		
SUPPLIES		464100868 1/23/18 LAUNDRY SERVICE		893.25	18
		464848031 1/16/18 LAUNDRY SERVICE		926.41	18
COLLABORATIVE STRATEGIES CONSU CONSTRUCTION-DESIGN	22557		16,117.50		
		2TO03DEC2017 11/27-12/27/17 T.O.2017-03 MPPS PROJECT M		6,352.50	20
		2TO04DEC2017 11/27-12/27/17 T.O.2017-04 RCPS PROJ MGMT		9,765.00	20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CREATIVE WINDOW INTERIORS INC SUPPLIES	22558	10067 QTY 2 LEVOLOR MINI-BLINDS AND INSTALLATION 10067 QTY 2 LEVOLOR MINI-BLINDS AND INSTALLATION	270.00	189.23 80.77	18 18
CWEA-SCVS SEMINAR TRAINING	22559	1242018LECHUGA CWEA SCVS MECHANICAL TECHNOLOGIST TRAIN	50.00	50.00	18
D.C. FROST ASSOCIATES INC. MISCELLANEOUS	22560	20124 QTY 5 OVERFLOW PIPE	17,401.91	17,401.91	18
D.W. NICHOLSON CORPORATION CONSTRUCTION-CONTRACTOR	22561	1POM10876 10/1-10/31/17 PRG PMT#1 12KV EMERGENCY REPAI 2POM10876 11/1-11/30/17 PRG PMT#2 12KV EMERGENCY REPAI	56,668.98	15,477.13 41,191.85	20 20
DKF SOLUTIONS GROUP, LLC CONTRACT SERV. (NON-MAINT.)	22562	13677 01/2018 MY SAFETY OFFICER-MONTHLY SUBSCRIPTION F	450.00	450.00	18
DMJ GAS MARKETING CONSULTANTS, UTILITIES	22563	20170112 12/17 COGEN GAS	2,752.63	2,752.63	18
EDGLEY, KIP D. CONSTRUCTION-CONTRACTOR	22564	1091801 12/4/17-1/7/18 SERVICES INSIDE CA 1091801B 12/4/17-1/7/18 SERVICES OUTSIDE CA 1091801C REIM-12/4/17-1/7/18 TRAVEL EXPENSES 1091801D 7% NONRESIDENT WITHHOLDING	16,502.73	7,722.00 5,535.00 3,786.27 -540.54	20 20 20 20
ERS INDUSTRIAL SERVICES, INC. CONSTRUCTION-CONTRACTOR	22565	AN1A RAS PUMP REPAIR TREATMENT PLANT PHASE1 FACILITY I	26,158.93	26,158.93	20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
FASTENAL COMPANY	22566		1,760.78		
MISCELLANEOUS		CASAA56935 VENDOR MANAGED RESTOCK		241.02	18
		CASAA56935 VENDOR MANAGED RESTOCK		45.74	18
		CASAA56935 VENDOR MANAGED RESTOCK		29.69	18
		CASAA56935 VENDOR MANAGED RESTOCK		23.65	18
		CASAA56935 VENDOR MANAGED RESTOCK		1,420.68	18
FIRST SECURITY SERVICES	22567		14,017.50		
CONSTRUCTION-CONTRACTOR		549383 12/9/12/22/17 FOP & GP SECURITY PATROL SVCS		1,147.50	20
		549383 12/9/12/22/17 FOP & GP SECURITY PATROL SVCS		1,147.50	20
		549383 12/9/12/22/17 FOP & GP SECURITY PATROL SVCS		1,147.50	20
		549383 12/9/12/22/17 FOP & GP SECURITY PATROL SVCS		1,147.50	20
		550190 12/23/17-1/5/18 FOP & GP SECURITY PATROL SVCS		2,356.86	20
		550190 12/23/17-1/5/18 FOP & GP SECURITY PATROL SVCS		2,356.88	20
		550190 12/23/17-1/5/18 FOP & GP SECURITY PATROL SVCS		2,356.88	20
		550190 12/23/17-1/5/18 FOP & GP SECURITY PATROL SVCS		2,356.88	20
FISHER SCIENTIFIC COMPANY, LLC	22568		230.42		
MISCELLANEOUS		6489115 LAB SUPPLIES		230.42	18
FREYER & LAURETA, INC	22569		4,917.50		
CONSTRUCTION-DESIGN		17683 11/1-11/30/17 T.O.2017-02 PUMP STATION VALVE REP		2,458.75	14
		17683 11/1-11/30/17 T.O.2017-02 PUMP STATION VALVE REP		2,458.75	14

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
GRAINGER	22570		5,685.99		
SUPPLIES		9658690384 CREDIT MEMO ON INV 9607628964		-164.56	18
MISCELLANEOUS		9658690392 CREDIT MEMO ON INV 9607298206		-274.26	18
SUPPLIES		9658690400 CREDIT MEMO ON INV 9554629833		-27.43	18
MACHINERY AND EQUIP MAINT MATE		9623875706 RESTOCK ITEMS		16.95	18
		9623875706 RESTOCK ITEMS		167.69	18
		9641230413 RESTOCK ITEMS		626.45	18
		9641230413 RESTOCK ITEMS		309.44	18
		9641230413 RESTOCK ITEMS		137.56	18
CONST.-ADMIN. & LEGAL		9654094342 RESTOCK ITEMS		2,601.30	20
MACHINERY AND EQUIP MAINT MATE		9656849768 RESTOCK ITEMS		46.03	18
MISCELLANEOUS		9656849768 RESTOCK ITEMS		52.74	18
		9656849768 RESTOCK ITEMS		155.73	18
SMALL TOOLS		9658690376 RESTOCK ITEMS		237.08	18
		9658690376 RESTOCK ITEMS		432.83	18
		9659540091 RESTOCK ITEMS		31.71	18
		9659540091 RESTOCK ITEMS		9.31	18
		9659540091 RESTOCK ITEMS		11.18	18
		9659540091 RESTOCK ITEMS		15.53	18
MACHINERY AND EQUIP MAINT MATE		9663045525 RESTOCK ITEMS		256.81	18
MISCELLANEOUS		9663045525 RESTOCK ITEMS		46.44	18
MACHINERY AND EQUIP MAINT MATE		9663045533 RESTOCK ITEMS		635.76	18
SUPPLIES		9665946530 RESTOCK ITEMS		251.39	18
		9665946530 RESTOCK ITEMS		89.18	18
		9666422325 RESTOCK ITEMS		21.13	18
HANSON BRIDGETT LLP	22571		36,752.50		
CONST.-ADMIN. & LEGAL		1205039 10/2-11/30/17 T.O.2017-02 PUBLIC WORKS CONTRAC		7,684.63	20
		1205039 10/2-11/30/17 T.O.2017-02 PUBLIC WORKS CONTRAC		7,684.63	20
		1205039 10/2-11/30/17 T.O.2017-02 PUBLIC WORKS CONTRAC		7,684.62	20
		1205039 10/2-11/30/17 T.O.2017-02 PUBLIC WORKS CONTRAC		7,684.62	20
PROFESSIONAL SERVICES		1205040 11/2-11/30/17 T.O.2017-02 WARRANTY CLAIMS-GAS		6,014.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
HARRINGTON INDUST PLASTICS	22572		221.96		
MACHINERY AND EQUIP MAINT MATE		3L7705 PLUMBING SUPPLIES		149.96	18
		3L7705 PLUMBING SUPPLIES		72.00	18
HERRERA, TERESA	22573		809.84		
MEMB. & MEET.		1262018 REIM-12/11/17 LICENSE RENEWAL - BOARD FOR PROF		115.00	18
SUPPLIES		1262018B REIM-12/18/17 RESCU CENTER BICYCLE		694.84	18
HILLYARD INC	22574		642.34		
MISCELLANEOUS		602836905 JANITOR SUPPLIES		642.34	18
HILTI, INC.	22575		92.82		
SUPPLIES		4610879576 VARIOUS NUTS & BOLTS		92.82	18
ICE QUBE INC.	22576		4,474.60		
MACHINERY AND EQUIP MAINT MATE		73628 QTY 2 AIR CONDITIONING UNITS		2,085.83	18
		73628 QTY 2 AIR CONDITIONING UNITS		2,085.83	18
MACH & EQUIP MAINT SERVICES		73628 QTY 2 AIR CONDITIONING UNITS		302.94	18
IDEXX DISTRIBUTION, INC	22577		1,068.13		
SUPPLIES		3025730625 LAB SUPPLIES		206.86	18
		3025730625 LAB SUPPLIES		359.01	18
		3025730625 LAB SUPPLIES		502.26	18
J B CONSTRUCTION	22578		6,960.12		
CONSTRUCTION-CONTRACTOR		501 MODIFICATION ON SVCW TRAILER IN RWC		1,740.03	20
		501 MODIFICATION ON SVCW TRAILER IN RWC		1,740.03	20
		501 MODIFICATION ON SVCW TRAILER IN RWC		1,740.03	20
		501 MODIFICATION ON SVCW TRAILER IN RWC		1,740.03	20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
JENTECH SERVICES	22579		7,516.20		
MACH & EQUIP MAINT SERVICES		2246 1/8-1/18/18 INSTRUMENTATION AND ELECTRICAL SERVIC		408.00	18
		2246 1/8-1/18/18 INSTRUMENTATION AND ELECTRICAL SERVIC		1,836.00	18
		2246 1/8-1/18/18 INSTRUMENTATION AND ELECTRICAL SERVIC		2,346.00	18
		2246 1/8-1/18/18 INSTRUMENTATION AND ELECTRICAL SERVIC		204.00	18
		2246 1/8-1/18/18 INSTRUMENTATION AND ELECTRICAL SERVIC		510.00	18
		2246 1/8-1/18/18 INSTRUMENTATION AND ELECTRICAL SERVIC		2,212.20	18
KARLA'S JANITORIAL SERVICE	22580		12,325.00		
CONTRACT SERV. (NON-MAINT.)		2115 JANITORIAL SERVICES		6,700.00	18
		2119 JANITORIAL SERVICES		5,625.00	18
KENNEDY/JENKS CONSULTANTS, INC	22581		126,102.45		
CONTRUCTION-DESIGN		117398 THRU 10/27/17 T.O.2017-02 RDT DESIGN & ESDC SVC		6,809.75	20
PROFESSIONAL SERVICES		117746 7/1-11/24/17 T.O.2017-08 AS-NEEDED ENGINEERING		5,760.00	18
CONTRUCTION-DESIGN		117988 10/28-11/24/17 T.O.2017-05 GRAVITY PIPELINE ADM		570.10	20
		117988 10/28-11/24/17 T.O.2017-05 GRAVITY PIPELINE ADM		964.63	20
		117988 10/28-11/24/17 T.O.2017-05 GRAVITY PIPELINE ADM		7,595.51	20
		117988 10/28-11/24/17 T.O.2017-05 GRAVITY PIPELINE ADM		5,258.92	20
		117988 10/28-11/24/17 T.O.2017-05 GRAVITY PIPELINE ADM		765.71	20
		117988 10/28-11/24/17 T.O.2017-05 GRAVITY PIPELINE ADM		632.93	20
		118205 10/28-11/24/17 T.O.2017-02 THICKENING IMPROVEME		5,469.50	20
		118224 THRU 11/24/17 T.O.2017-03 ALTERNATIVE DELIVERY		622.10	20
		118224 THRU 11/24/17 T.O.2017-03 ALTERNATIVE DELIVERY		1,054.10	20
		118224 THRU 11/24/17 T.O.2017-03 ALTERNATIVE DELIVERY		8,311.87	20
		118224 THRU 11/24/17 T.O.2017-03 ALTERNATIVE DELIVERY		5,754.37	20
		118224 THRU 11/24/17 T.O.2017-03 ALTERNATIVE DELIVERY		829.46	20
		118224 THRU 11/24/17 T.O.2017-03 ALTERNATIVE DELIVERY		708.50	20
CONST.-ADMIN.* & LEGAL		118264 8/31-11/24/17 T.O.2017-10 RESCU PROG MGMT SUPPO		18,748.75	20
		118264 8/31-11/24/17 T.O.2017-10 RESCU PROG MGMT SUPPO		18,748.75	20
		118264 8/31-11/24/17 T.O.2017-10 RESCU PROG MGMT SUPPO		18,748.75	20
		118264 8/31-11/24/17 T.O.2017-10 RESCU PROG MGMT SUPPO		18,748.75	20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
LENSCRAFTERS	22582		190.00		
SUPPLIES		1805472792 SAFETY GLASSES - AKELA, ARVIND		190.00	18
LIEBERT CASSIDY WHITMORE	22583		955.00		
PROFESSIONAL SERVICES		1453119 THRU 12/31/17 D.A. HALL MGMT PAY PERS APPEAL		955.00	18
MARINA MECHANICAL	22584		3,425.38		
MACH & EQUIP MAINT SERVICES		90486 12/15/17 MAINTENANCE LABOR & PARTS		335.38	18
		9399 01/18 MAINTENANCE AGREEMENT		3,090.00	18
MCMASTER-CARR SUPPLY CO.	22585		668.58		
MISCELLANEOUS		53817674 QTY 3 SUMP PUMPS		668.58	18
METRO MOBILE COMMUNICATIONS	22586		2,265.65		
MISCELLANEOUS		40052 QTY 4 PORTABLE RADIOS		2,265.65	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
MOBILE MODULAR MANAGEMENT CORP CONST.-ADMIN. & LEGAL	22587		15,155.63		
		1506121 12/1-12/30/17 RESTROOM RENT & INSTALLATION		860.53	20
		1506121 12/1-12/30/17 RESTROOM RENT & INSTALLATION		860.53	20
		1506121 12/1-12/30/17 RESTROOM RENT & INSTALLATION		860.53	20
		1506121 12/1-12/30/17 RESTROOM RENT & INSTALLATION		860.53	20
		1519793 12/31/17-1/29/18 OFFICE RENT - HAWK		486.20	20
		1519793 12/31/17-1/29/18 OFFICE RENT - HAWK		486.19	20
		1519793 12/31/17-1/29/18 OFFICE RENT - HAWK		486.19	20
		1519793 12/31/17-1/29/18 OFFICE RENT - HAWK		486.20	20
		1519987 12/31/17-1/29/18 OFFICE RENT - EAGLE		509.03	20
		1519987 12/31/17-1/29/18 OFFICE RENT - EAGLE		509.03	20
		1519987 12/31/17-1/29/18 OFFICE RENT - EAGLE		509.03	20
		1519987 12/31/17-1/29/18 OFFICE RENT - EAGLE		509.04	20
		1520202 12/31/17-1/29/18 RESTROOM RENT		188.63	20
		1520202 12/31/17-1/29/18 RESTROOM RENT		188.63	20
		1520202 12/31/17-1/29/18 RESTROOM RENT		188.63	20
		1520202 12/31/17-1/29/18 RESTROOM RENT		188.63	20
		1520276 12/31/17-1/29/18 OFFICE RENT - CONDOR		1,744.52	20
		1520276 12/31/17-1/29/18 OFFICE RENT - CONDOR		1,744.52	20
		1520276 12/31/17-1/29/18 OFFICE RENT - CONDOR		1,744.52	20
		1520276 12/31/17-1/29/18 OFFICE RENT - CONDOR		1,744.52	20
MOTION INDUSTRIES INC.	22588		3,646.72		
MISCELLANEOUS		CA24025044 VARIOUS SIZES HOSE ENDS/STEEL CLAMPS		127.01	18
MACHINERY AND EQUIP MAINT MATE		CA24025404 VARIOUS SIZES HOSE ENDS/STEEL CLAMPS		3,519.71	18
NAVIA BENEFIT SOLUTIONS	22589		186.10		
ADMINISTRATIVE EXPENSES		10116074 12/2017 PARTICIPANT FEE		186.10	18
OFFICE DEPOT	22590		83.61		
SUPPLIES		988647494001 OFFICE SUPPLIES		83.61	18

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OTIS ELEVATOR COMPANY	22591		6,560.88		
MACH & EQUIP MAINT SERVICES		SJ04029A17 10/1/17-12/31/17 SERVICE CONTRACT CHARGES		5,138.49	18
		SJ15832001 11/10/17 TROUBLESHOOTING ELEVATOR		1,422.39	18
PACIFIC GAS AND ELECTRIC COMPA	22592		11,086.07		
UTILITIES		103201865919 11/30-12/31/17 COGEN GAS		734.55	18
		111201823701 12/14/17-1/11/18 PLANT GAS		4,649.81	18
		118201819225 12/13/17-1/10/18 SCPS ELECTRIC		2,331.20	18
		118201890892 12/14/17-1/11/18 1406 GAS & ELECTRIC		977.19	18
		119201888673 12/14/17-1/11/18 BLPS ELECTRIC		2,393.32	18
PACIFIC WATER RESOURCES	22593		17,842.39		
MISCELLANEOUS		17245 QTY 1 FLOWSERVE SUBMERSIBLE PUMP		17,842.39	18
PAN-PACIFIC SUPPLY CO.	22594		4,252.69		
MISCELLANEOUS		29597878 QTY 2 1-7/8" CHESTERTON		4,252.69	18
PAPE MACHINERY	22595		298,035.11		
CAPITAL		FM196502S QTY 1 JOHN DEERE 644K AWD HYBRID LOADER		298,035.11	14
PENINSULA BATTERY, INC.	22596		498.93		
MACHINERY AND EQUIP MAINT MATE		123978 QTY 2 8D BATTERIES		388.00	18
SUPPLIES		123978 QTY 2 8D BATTERIES		108.75	18
		123978 QTY 2 8D BATTERIES		2.18	18
POLITZER, KRISTA	22597		1,187.98		
MISCELLANEOUS		1262018 COMPUTER LOAN PER ADMIN POLICY#1987-03, EE TOO		1,187.98	18
POLYDYNE, INC.	22598		43,446.71		
CHEMICAL SUPPLIES		1200183 1/11/18 41400 CLARIFLOC		43,446.71	18

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POWER ENGINEERING CONSTRUCTION CONSTRUCTION-CONTRACTOR	22599	FRETRELPO10558 1/2/18 FINAL RETENTION RELEASE-PLANT E	6,098.00	6,098.00	20
PSC INDUSTRIAL OUTSOURCING, LP CONTRACT SERV. (NON-MAINT.)	22600	1311198223 12/2017 RCPS MAPLE WET WELL CLEANING	3,481.30	3,481.30	18
QUALITY ASSURANCE SOLUTIONS, L CONTRACT SERV. (NON-MAINT.)	22601	CA2018003 12/14/17 ON-SITE LABORATORY TRAINING	300.00	300.00	18
QUINCY COMPRESSOR LLC MACHINERY AND EQUIP MAINT MATE	22602	868750 VARIOUS QUINCY FILTERS 868750 VARIOUS QUINCY FILTERS	325.49	267.98 57.51	18 18
R & B COMPANY SUPPLIES MISCELLANEOUS	22603	S1709264001 PLUMBING SUPPLIES S1709264001 PLUMBING SUPPLIES	139.20	69.60 69.60	18 18
R & S ERECTION NORTH PENINSULA MACH & EQUIP MAINT SERVICES	22604	G41890 1/3-1/4/18 LABOR TO REPAIR GATES	822.39	822.39	18
R.E.P. NUT N BOLT GUY SUPPLIES	22605	28650 VARIOUS NUTS & BOLTS	489.92	489.92	18
REDWOOD CITY, CITY OF - FINANC PROFESSIONAL SERVICES	22606	BR46782 12/17 ACCOUNTING SERVICES	11,498.16	11,498.16	18
REDWOOD PAINTING CO., INC. CONSTRUCTION-CONTRACTOR	22607	RETRELPO10865 12/16/17 RETENTION RELEASE-CCT CONCRETE	12,103.26	12,103.26	20
REDWOOD SHORES COMMUNITY ASSOC CONST.-ADMIN. & LEGAL	22608	171209 12/1/17 FULL PAGE LEFT INTERIOR COLOR AD 180115 1/1/18 FULL PAGE LEFT INTERIOR COLOR AD	1,310.00	655.00 655.00	20 20

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ROONEY, FRANCIS TRAINING	22609	1262018 REIM-1/7-1/10/18 TRAVEL EXPENSES-BASIC MGMT&SU	244.48	244.48	18
SAN MATEO COUNTY MOSQUITO AND CONTRACT SERV. (NON-MAINT.)	22610	SM1800006 12/31/17 MOSQUITO AND VECTOR CONTROL	89.89	89.89	18
SANDUL, DUANE CONTRUCTION-DESIGN	22611	22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 22B 11/1-11/30/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 23B 12/1-12/31/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 23B 12/1-12/31/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 23B 12/1-12/31/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 23B 12/1-12/31/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 23B 12/1-12/31/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 23B 12/1-12/31/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 23B 12/1-12/31/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 23B 12/1-12/31/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG 23B 12/1-12/31/17 CONVEYANCE SYSTEM PROGRAM - PREDESIG	1,520.00 9.60 19.20 52.80 528.00 115.20 38.40 52.80 19.20 57.60 67.20 22.40 33.60 30.80 308.00 67.20 30.80 11.20 11.20 39.20 5.60	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	
SHANKAR, SAMEET CONF. & TRAV.	22612	1262018 REIM-1/7-1/12/18 TRAVEL EXPENSES-CAPPO CONFERE	621.58	621.58	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
SHERWIN WILLIAMS COMPANY	22613		132.46		
MACHINERY AND EQUIP MAINT MATE		76461 PAINT SUPPLIES		130.01	18
		76461 PAINT SUPPLIES		2.45	18
STATIONARY ENGINEERS LOCAL 39	22614		70.00		
MISCELLANEOUS		1262018 ONE TIME UNION INITIATION FEE:ROBERT ISHAYA PP		70.00	11
TANNER PACIFIC, INC.	22615		222,658.46		
CONST.-ADMIN. & LEGAL		218005 12/31/17-1/13/18 T.O.2017-07 CONSTRUCTION MGMT-		93,537.88	20
CONSTRUCTION-CONSTRUCTION MGMT		218006 12/31/17-1/13/18 T.O.2017-08 GRAVITY PIPELINE		9,562.50	20
CONST.-ADMIN. & LEGAL		218007 12/31/17-1/13/18 T.O.2017-10 POP-STAGE1,QA & P6		39,852.70	20
		218007 12/31/17-1/13/18 T.O.2017-10 POP-STAGE1,QA & P6		39,852.69	20
		218007 12/31/17-1/13/18 T.O.2017-10 POP-STAGE1,QA & P6		39,852.69	20
TEICHERT CONSTRUCTION	22616		878,655.00		
CONSTRUCTION-CONTRACTOR		4POM10866 11/1-11/30/17 PRG PMT#4 SITE STABILIZATION,G		878,655.00	20
TELEPACIFIC COMMUNICATIONS	22617		1,558.13		
UTILITIES		991200680 1/9-2/8/18 TELEPACIFIC SERVICES		389.53	18
		991200680 1/9-2/8/18 TELEPACIFIC SERVICES		389.53	18
		991200680 1/9-2/8/18 TELEPACIFIC SERVICES		389.53	18
		991200680 1/9-2/8/18 TELEPACIFIC SERVICES		389.54	18
THATCHER COMPANY OF CALIFORNIA	22618		7,829.91		
CHEMICAL SUPPLIES		247312 1/12/18 44720 LB TRIOXYN		7,829.91	18
THERMO ELECTRON NORTH AMERICA	22619		6,624.00		
MACH & EQUIP MAINT SERVICES		9020768529 1/9/18-1/8/19 EXTENDED WARRANTY LABORATORY		6,624.00	18
THOMAS FISH CO.	22620		128.00		
SUPPLIES		22320 QTY 110 RAINBOW TROUT FISHES		128.00	18

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U.S. BANK CORPORATE PAYMENT SY	22621		10,811.68		
SUPPLIES		12222017BB1 12/14/17 SOFTWARE FOR BUS ANALYST - MS PRO		37.74	18
		12222017BB2 12/14/17 SERVER LICENSE - OFFICE 365 MSFT		56.00	18
		12222017BB3 12/14/17 USER LICENSE - OFFICE 365 MSFT		180.00	18
TRAINING		12222017BB4 12/19/17 STAFF TRAINING - LYNDIA.COM		375.00	18
SUPPLIES		12222017DC1 11/27/17 FUEL EXPENSE - LOVE S COUNTRY		102.00	18
MEMB. & MEET.		12222017DC2 12/4/17 PARKING FEE - BART SAN BRUNO		8.65	18
SUPPLIES		12222017DC3 12/5/17 VEHICLE PARTS - WEATHERTECH DIRECT		375.02	18
		12222017DC4 12/6/17 VEHICLE PARTS - WEATHERTECH DIRECT		1,000.45	18
MACH & EQUIP MAINT SERVICES		12222017DC5 12/6/17 VEHICLE REPAIR - JAMES FORD INC		234.15	18
SUPPLIES		12222017DC6 12/7/17 FUEL EXPENSE - PILOT		58.00	18
		12222017DC7 12/8/17 FUEL EXPENSE - MAVERIK		58.00	18
		12222017DC8 12/10/17 FUEL EXPENSE - MAVERIK		71.00	18
		12222017DC9 12/11/17 FUEL EXPENSE - MAVERIK		81.00	18
MEMB. & MEET.		12222017DL1 11/30/17 MEMBERSHIP FEE 2018 - BOARD OF CE		140.00	18
SUPPLIES		12222017DL2 12/14/17 SAFETY SUPPLIES FOR NEW TRAILERS-		1,166.13	18
TRAINING		12222017EM1 11/28/17 TRAINING FEE-THERMOGRAPHIC APPLIC		1,750.00	18
		12222017EM2 12/1/17 CERT RENEWAL FEE-CWEA TCP LAB ANAL		85.00	18
		12222017EM3 12/12/17 CERTIFICATION FEE-IVES LOADER GRP		1,650.00	18
RENTAL/LEASES		12222017EM4 12/14/17 TRENCH PLATE RENTAL-FOR DMGD VAUL		515.00	18
UTILITIES		12222017EM5 12/14/17 UTILITY EXPENSE-ELECTRIC,PG&E-GRE		1,490.30	18
MEMB. & MEET.		12222017EM6 12/18/17 MEMBERSHIP RENEWAL FEE - CWEA T C		180.00	18
		12222017EM7 12/18/17 MEMBERSHIP RENEWAL FEE - CWEA M D		180.00	18
UTILITIES		12222017EM8 12/19/17 UTILITY EXPENSE-PG&E ELECTRIC-GRE		71.41	18
MEMB. & MEET.		12222017EM9 12/19/17 CERT & MEMBERSHIP RENEWAL - CWEA		180.00	18
TRAINING		12222017EM9 12/19/17 CERT & MEMBERSHIP RENEWAL - CWEA		95.00	18
SUPPLIES		12222017IS1 11/29/17 REFRESHMENT EXPENSE-L BRUEMMER RE		17.91	18
		12222017IS2 11/29/17 REKEY DOOR UNIT-ADMIN BLDG BAORD		254.78	18
		12222017IS3 12/1/17 LUNCH EXPENSE - SR. OPERATORS INTE		131.03	18
TRAINING		12222017JF1 11/27/18 WEBINAR - LIEBERT CASSIDY WHITMOR		50.00	18
SUPPLIES		12222017JF2 12/3/17 SVCW STATIONARY - THE GALLERY COLL		218.11	18

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U.S. BANK CORPORATE PAYMENT SY	22622		7,925.01		
SUPPLIES		12222017JF3 12/3/17 SVCW STATIONARY - THE GALLERY COLL		207.23	18
CONF. & TRAV.		12222017JF4 12/9/17 PARKING EXPENSE-CALPELRA CONFERENC		60.00	18
		12222017JF5 12/9/17 LODGING EXPENSE-CALPELRA CONFERENC		743.52	18
SMALL TOOLS		12222017LB1 12/7/17 QTY 2 FOLDING TABLES - AMAZON		126.10	18
CONTRACT SERV. (NON-MAINT.)		12222017LB2 12/8/17 OFF-SITE RECORDS MANAGEMENT		142.00	18
SUPPLIES		12222017MA1 12/2/17 FUEL EXPENSE - MAINT. SUPPLIES, CH		52.20	18
CONF. & TRAV.		12222017MA2 12/6/17 ADMIN TRANSPORT - FASTRAK		195.00	18
TRAINING		12222017ND1 12/7/17 SEMINAR FEE-LEADERSHIP TRNG PRG-P		998.00	18
CONF. & TRAV.		12222017RH1 12/15/17 MEMBERSHIP FEE - CWEA - M GAWAT		180.00	18
SUPPLIES		12222017TH1 11/28/17 ICLOUD BACKUP - APL		0.99	18
CONST.-ADMIN. & LEGAL		12222017TH2 11/28/17 QTY 6 PULL UP PLANNING BOARDS - O		2,939.39	20
SUPPLIES		12222017TH3 12/5/17 RESCU CENTER SUPPLIES - AMAZON		14.38	18
		12222017TH4 12/5/17 RESCU CENTER SUPPLIES - AMAZON		84.99	18
TRAINING		12222017VV1 11/29/17 WORKSHOP LUNCH EXPENSE - O&M W/ D		243.27	18
SUPPLIES		12222017VV2 12/1/17 WORKSHOP LUNCH EXPENSE - GP WORKSHO		84.42	18
		12222017VV3 12/1/17 MEETING LUNCH EXPENSE-GP BIG ROOM		46.00	18
		12222017VV4 12/1/17 MEETING LUNCH EXPENSE-GP BIG ROOM		55.20	18
		12222017VV5 12/1/17 WORKSHOP LUNCH EXPENSE-GP WORKSHOP		97.75	18
		12222017VV6 12/12/17 REFRESHMENTS EXPENSE - SVCW HOLID		95.26	18
		12222017VV7 12/12/17 REFRESHMENTS EXPENSE - SVCW HOLID		124.30	18
		12222017VV8 12/12/17 REFRESHMENTS EXPENSE - SVCW HOLID		258.51	18
MEMB. & MEET.		12222017VV9 12/13/17 LICENSE FEE -P.E. LICENSE B BURNW		1.00	18
SUPPLIES		12222017DC10 12/12/17 FUEL EXPENSE - CHEVRON		98.00	18
MEMB. & MEET.		12222017EM10 12/19/17 CERT & MEMBERSHIP RENEWAL - CWEA		180.00	18
TRAINING		12222017EM10 12/19/17 CERT & MEMBERSHIP RENEWAL - CWEA		90.00	18
MEMB. & MEET.		12222017EM11 12/19/17 MEMBERSHIP RENEWAL FEE - CWEA GU		180.00	18
		12222017EM12 12/19/17 MEMBERSHIP RENEWAL FEE - CWEA N		180.00	18
TRAINING		12222017EM13 12/19/17 CERT & MEMEBERSHIP RENEWAL-CWEA		95.00	18
MEMB. & MEET.		12222017EM13 12/19/17 CERT & MEMEBERSHIP RENEWAL-CWEA		180.00	18
		12222017VV10 12/13/17 LICENSE FEE -P.E. LICENSE B BURN		172.50	18

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U.S. BANK CORPORATE PAYMENT SY	22623		11,039.89		
MISCELLANEOUS		12222017DC3TAX SALES TAX LIABILITY		-30.17	18
		12222017DC4TAX SALES TAX LIABILITY		-80.50	18
		12222017DM3TAX SALES TAX LIABILITY		-9.27	18
		12222017DM4TAX SALES TAX LIABILITY		-1.55	18
		12222017DM6TAX SALES TAX LIABILITY		-26.20	18
		12222017JD1TAX SALES TAX LIABILITY		-105.70	18
		12222017JD5TAX SALES TAX LIABILITY		-23.54	18
		12222017JD6TAX SALES TAX LIABILITY		-178.92	18
		12222017JD7TAX SALES TAX LIABILITY		-1.74	18
		12222017JD9TAX SALES TAX LIABILITY		-8.14	18
		12222017JF2TAX SALES TAX LIABILITY		-17.55	18
		12222017JF3TAX SALES TAX LIABILITY		-16.67	18
SUPPLIES		12222017DJ12 12/18/17 QTY 3 AED EQUIPMENT AND SUBSCRIP		3,056.96	18
MACH & EQUIP MAINT SERVICES		12222017DM1 11/29/17 LABOR REPAIR SERVICE FOR TRACTOR		2,948.89	18
SUPPLIES		12222017DM2 11/30/17 QTY 2 DESKTOP PRINTER RIBBONS - A		121.32	18
		12222017DM3 12/1/17 QTY 1 HI CAPACITY CART SHELVES - A		115.26	18
		12222017DM4 12/2/17 QTY 1 PKG OF MAGNETS, QTY 1 WALL M		19.24	18
		12222017DM4 12/2/17 QTY 1 PKG OF MAGNETS, QTY 1 WALL M		13.05	18
MACHINERY AND EQUIP MAINT MATE		12222017DM5 12/4/17 QTY 1 STATIC MIXER - KOFLO CORP		1,095.00	18
MISCELLANEOUS		12222017DM6 12/4/17 QTY 1 CHAINWHEEL, QTY 30 CHAIN - P		435.00	18
		12222017DM6 12/4/17 QTY 1 CHAINWHEEL, QTY 30 CHAIN - P		126.15	18
SUPPLIES		12222017DM7 12/12/17 QTY 1 DISPLAY BOARD - AO SMITH		10.00	18
MACH & EQUIP MAINT SERVICES		12222017DM7 12/12/17 QTY 1 DISPLAY BOARD - AO SMITH		278.19	18
MACHINERY AND EQUIP MAINT MATE		12222017DM8 12/21/17 QTY 10 CAST BASEPLATE - GOLDEN RA		165.00	18
		12222017JD1 11/27/17 QTY 5 CURRENT XDUCER SPLITCORE, Q		487.20	18
		12222017JD1 11/27/17 QTY 5 CURRENT XDUCER SPLITCORE, Q		12.58	18
		12222017JD1 11/27/17 QTY 5 CURRENT XDUCER SPLITCORE, Q		826.45	18
		12222017JD11 12/12/17 QTY 3 FILTERS - SHAWNDR A PRODUCT		1,480.52	18
		12222017JD11 12/12/17 QTY 3 FILTERS - SHAWNDR A PRODUCT		468.15	18
MISCELLANEOUS		12222017JD11TAX SALES TAX LIABILITY		-119.12	18

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U.S. BANK CORPORATE PAYMENT SY	22624		3,731.54		
MISCELLANEOUS		12222017JD12TAX SALES TAX LIABILITY		-245.96	18
SUPPLIES		12222017JD13 12/19/17 VARIOUS REPAIR PARTS - HOME DEPO		12.33	18
MISCELLANEOUS		12222017JD14 12/19/17 VARIOUS REPAIR PARTS - PEPBOYS		17.31	18
SUPPLIES		12222017JD2 11/27/17 QTY 50 COSTCO WATER, QTY 2 COFFEE		385.00	18
		12222017JD2 11/27/17 QTY 50 COSTCO WATER, QTY 2 COFFEE		76.98	18
MISCELLANEOUS		12222017JD3 QTY 3 SPECIAL CHOC; WHITE, WHITE RETIREMEN		56.97	18
SUPPLIES		12222017JD4 11/29/17 VARIOUS INSERT CARDS AND HOLDERS		200.29	18
		12222017JD5 11/29/17 QTY 5 REPLACEMENT FILTERS - GALCO		40.00	18
MISCELLANEOUS		12222017JD5 11/29/17 QTY 5 REPLACEMENT FILTERS - GALCO		285.47	18
MACHINERY AND EQUIP MAINT MATE		12222017JD6 12/6/17 QTY 24 IND AIR - METAL MESH - FILT		2,370.72	18
SUPPLIES		12222017JD7 12/7/17 QTY 1 HI EXTENDED CAPACITY BATTERY		21.64	18
MACHINERY AND EQUIP MAINT MATE		12222017JD8 12/7/17 QTY 1 BUSSMAN AMP - AMAZON		4.70	18
SUPPLIES		12222017JD9 12/11/17 QTY 4 VARIOUS DURASHELF CONTAINME		25.31	18
		12222017JD9 12/11/17 QTY 4 VARIOUS DURASHELF CONTAINME		25.31	18
		12222017JD9 12/11/17 QTY 4 VARIOUS DURASHELF CONTAINME		25.31	18
		12222017JD9 12/11/17 QTY 4 VARIOUS DURASHELF CONTAINME		25.31	18
		12222017JD9 12/11/17 QTY 4 VARIOUS DURASHELF CONTAINME		20.58	18
SMALL TOOLS		12222017SS1 12/5/17 VARIOUS REPAIR PARTS - HOME DEPOT		233.89	18
CONST.-ADMIN. & LEGAL		12222017SS2 12/5/17 VARIOUS REPAIR PARTS - HOME DEPOT		22.89	20
		12222017SS3 12/5/17 VARIOUS REPAIR PARTS - HOME DEPOT		50.00	20
ADMINISTRATIVE EXPENSES		12222017SS4 12/8/17 WEBSITE LISTING FEE FOR COMPANY VE		63.00	18
SUPPLIES		12222017SS5 12/15/17 VARIOUS REPAIR PARTS - HOME DEPOT		14.49	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
UNITED SITE SERVICES OF CALIFO CONSTRUCTION-CONTRACTOR	22625		2,789.02		
		1146076878 11/20-12/17/17 WEEKLY SVC, DMG WAIVER & HOL		304.22	20
		1146076878 11/20-12/17/17 WEEKLY SVC, DMG WAIVER & HOL		304.21	20
		1146076878 11/20-12/17/17 WEEKLY SVC, DMG WAIVER & HOL		304.22	20
		1146076878 11/20-12/17/17 WEEKLY SVC, DMG WAIVER & HOL		304.21	20
		1146169270 12/14-12/17/17 WEEKLY SVC, DMG WAIVER & HOL		17.87	20
		1146169270 12/14-12/17/17 WEEKLY SVC, DMG WAIVER & HOL		17.86	20
		1146169270 12/14-12/17/17 WEEKLY SVC, DMG WAIVER & HOL		17.87	20
		1146169270 12/14-12/17/17 WEEKLY SVC, DMG WAIVER & HOL		17.87	20
		1146173343 12/18/17-1/14/18 WEEKLY SVC, DMG WAIVER & H		375.18	20
		1146173343 12/18/17-1/14/18 WEEKLY SVC, DMG WAIVER & H		375.17	20
		1146173343 12/18/17-1/14/18 WEEKLY SVC, DMG WAIVER & H		375.17	20
		1146173343 12/18/17-1/14/18 WEEKLY SVC, DMG WAIVER & H		375.17	20
UNIVAR USA INC. CHEMICAL SUPPLIES	22626		14,778.56		
		SJ857105 1/2/18 3999 GAL SOD HYPO		2,122.26	18
		SJ857906 1/7/18 4000 GAL SOD HYPO		2,122.80	18
		SJ858082 1/8/18 4418.3949 GAL BISULFITE		6,246.50	18
		SJ858548 1/10/18 4076 GAL SOD HYPO		2,163.14	18
		SJ859302 1/15/18 4002 GAL SOD HYPO		2,123.86	18
VALLEY OIL COMPANY (VEHICLE FU SUPPLIES	22627		532.49		
		490073 12/1-12/15/17 FUEL CHARGES		532.49	18
VINCENT ELECTRIC MOTOR COMPANY MACH & EQUIP MAINT SERVICES	22628		13,821.87		
		905396 MATERIALS AND LABOR TO RECONDITION MOTOR		13,821.87	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
VWR INTERNATIONAL, LLC	22629		1,469.13		
SUPPLIES		8080827674 CREDIT MEMO ON INV 8080208261		-212.57	18
		8080827676 CREDIT MEMO ON INV 8080208261		-224.42	18
		8080854100 CREDIT MEMO ON INV 8049800622		-222.49	18
MISCELLANEOUS		8080949260 LAB SUPPLIES		897.19	18
SUPPLIES		8080995497 LAB SUPPLIES		199.30	18
		8081005131 LAB SUPPLIES		104.50	18
		8081005131 LAB SUPPLIES		871.11	18
		8081022454 LAB SUPPLIES		56.51	18
WATER ENVIRONMENT FEDERATION	22630		320.00		
MEMB. & MEET.		1814270WANDRO MEMBERSHIP FEE RENEWAL FOR BOB WANDRO		320.00	18
WATERLOGIC AMERICAS LLC	22631		97.88		
SUPPLIES		CNIN717203W 12/12/17-3/11/18 SERVICE AGREEMENT-HOT/COL		97.88	18
WATSON-MARLOW INC	22632		11,140.93		
MISCELLANEOUS		SI053223 QTY 1 PERISTALTIC PUMP		11,140.93	18
WEST YOST ASSOCIATES	22633		30,662.36		
CONST.-ADMIN. & LEGAL		2033960 11/4-12/1/17 T.O.2016-03 SRF FINANCIAL SVCS		7,962.50	20
CONTRUCTION-DESIGN		2033992 11/4-12/1/17 T.O.2017-01 PRGM MGMT SVCS - RESC		3,404.98	20
		2033992 11/4-12/1/17 T.O.2017-01 PRGM MGMT SVCS - RESC		3,177.98	20
		2033992 11/4-12/1/17 T.O.2017-01 PRGM MGMT SVCS - RESC		3,177.98	20
		2033992 11/4-12/1/17 T.O.2017-01 PRGM MGMT SVCS - RESC		3,404.98	20
		2033992 11/4-12/1/17 T.O.2017-01 PRGM MGMT SVCS - RESC		3,177.98	20
		2033992 11/4-12/1/17 T.O.2017-01 PRGM MGMT SVCS - RESC		3,177.98	20
		2033992 11/4-12/1/17 T.O.2017-01 PRGM MGMT SVCS - RESC		3,177.98	20
WRA ENVIRONMENTAL CONSULTANTS	22634		6,051.67		
CONTRUCTION-DESIGN		201711631442 10/1-10/31/17 T.O.2015-03 BIO & PERMIT SV		3,875.67	20
		201711831025 10/1-10/31/17 T.O.2016-01 BIO & PERMIT SV		2,176.00	20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
ZEP SALES & SERVICE	22635		349.30		
MISCELLANEOUS		9003209818 QTY 2 ZEP TKO 4-1GL		349.30	18

TOTAL

\$2,943,357.60



SVCW WARRANT REGISTER

SVCW Warrant Register for the period covering January 27, 2018 to February 9, 2018. A scanned copy was e-mailed to Commissioners on February 12, 2018.

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FUND RECAP

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NAME	FUND	AMOUNT
CAPITAL IMPROVEMENT FUND	14	9,530.50
OPERATION	18	430,160.68
PLANT - CIP BOND	20	652,122.84
TOTAL FOR APPROVAL		\$1,091,814.02

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 10146 THROUGH 10166 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 22636 THROUGH 22733 INCLUSIVE, TOTALING IN THE AMOUNT OF \$1,091,814.02, HAVE BEEN CHECKED IN DETAIL AND APPROVED BY THE PROPER OFFICIALS, AND IN MY OPINION REPRESENT FAIR AND JUST CHARGES AGAINST THE AUTHORITY IN ACCORDANCE WITH THEIR RESPECTIVE AMOUNTS AS INDICATED THEREON.

RESPECTFULLY SUBMITTED,


.....
DEPUTY TREASURER

2/8/18
.....
DATE


2/12/2018

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
ACME ANALYTICAL SOLUTIONS INC.	22636		322.91		
MISCELLANEOUS		14850 QTY 3 SULFURIC ACID SOLUTION		322.91	18
ALEJOS, SYLVIA	22637		273.08		
SUPPLIES		2092018 REIM-11/29-11/30/17 WORKSHOP MEAL EXPENSE-GP B		47.61	18
		2092018B REIM-11/29-11/30/17 WORKSHOP MEAL EXPENSE-GP		50.49	18
		2092018C REIM-11/18/17 MEAL EXPENSE-FURNITURE MOVE,TRA		51.66	18
		2092018D REIM-12/10/17 TRAILER SUPPLIES - COSTCO		123.32	18
ALL FENCE COMPANY, INC	22638		690.00		
MACH & EQUIP MAINT SERVICES		68136 FENCE & GATE REPAIRS		690.00	18
ALL INDUSTRIAL ELECTRIC SUPPLY	22639		829.76		
MACHINERY AND EQUIP MAINT MATE		5177040 LIGHTING SUPPLIES		755.46	18
		5177138 LIGHTING SUPPLIES		37.15	18
MISCELLANEOUS		5177138 LIGHTING SUPPLIES		37.15	18
ALLIED IRON CO., INC.	22640		137.66		
MACHINERY AND EQUIP MAINT MATE		132186 QTY 3 .25" X .5" CR1018 BAR X 12		137.66	18
ALPHA ANALYTICAL LABORATORIES	22641		70.00		
CONTRACT SERV. (NON-MAINT.)		8011861RPSVCW PLANT PERMIT LAB ANALYSIS		70.00	18
APEX LIFE SCIENCES, LLC	22642		2,598.76		
CONTRACT SERV. (NON-MAINT.)		LAB550401848 W/E 1/13/18 LAB TEMPORARY STAFF WORKER -		1,465.63	18
		LAB550404132 W/E 1/20/18 LAB TEMPORARYSTAFF WORKER - D		1,133.13	18
BAY AREA AIR QUALITY MANAGEMEN	22643		16,306.00		
ADMINISTRATIVE EXPENSES		4CM85 3/1/18-3/1/19 ANNUAL PERMIT RENEWAL SVCW PLANT		16,306.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
BEECHER ENGINEERING	22644		17,033.00		
CONSTRUCTION-DESIGN		81747 7/25-8/24/17 T.O.2016-03 ELEC ENG, PLANNING & CO		5,412.00	20
		111744 10/25-11/20/17 T.O.2017-02 12KV EMERGENCY REPAI		8,788.00	20
		111747 10/27/17 T.O.2016-03 ELEC ENG, PLANNING & CONSU		1,312.00	20
		121759 11/28-12/7/17 T.O.2017-02 12KV EMERGENCY REPAIR		1,521.00	20
BROWN & CALDWELL	22645		53,743.22		
CONSTRUCTION-DESIGN		11303230 8/25-9/28/17 T.O.2016-11 FOP/PHASE1 OWNERS AD		17,914.40	20
		11303230 8/25-9/28/17 T.O.2016-11 FOP/PHASE1 OWNERS AD		17,914.41	20
		11303230 8/25-9/28/17 T.O.2016-11 FOP/PHASE1 OWNERS AD		17,914.41	20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
BUCKLES SMITH ELECTRIC COMPANY	22646		58,335.49		
MACHINERY AND EQUIP MAINT MATE		306457602 VARIOUS ELECTRICAL PARTS		508.30	18
MISCELLANEOUS		307258200 VARIOUS ELECTRICAL PARTS		2,140.52	18
CONSTRUCTION-CONTRACTOR		307349700 VARIOUS ELECTRICAL PARTS		9,548.69	20
		307349700 VARIOUS ELECTRICAL PARTS		163.84	20
		307349700 VARIOUS ELECTRICAL PARTS		1,860.40	20
		307349700 VARIOUS ELECTRICAL PARTS		1,317.79	20
		307349700 VARIOUS ELECTRICAL PARTS		6,421.58	20
		307349700 VARIOUS ELECTRICAL PARTS		5,116.12	20
		307349700 VARIOUS ELECTRICAL PARTS		348.83	20
		307349700 VARIOUS ELECTRICAL PARTS		55.68	20
		307349700 VARIOUS ELECTRICAL PARTS		168.26	20
		307349700 VARIOUS ELECTRICAL PARTS		135.83	20
		307386900 VARIOUS ELECTRICAL PARTS		1,048.24	20
		307386900 VARIOUS ELECTRICAL PARTS		650.09	20
		307386900 VARIOUS ELECTRICAL PARTS		728.48	20
		307386900 VARIOUS ELECTRICAL PARTS		3,276.86	20
		307386900 VARIOUS ELECTRICAL PARTS		14,358.26	20
		307386900 VARIOUS ELECTRICAL PARTS		325.92	20
		307386901 VARIOUS ELECTRICAL PARTS		5,223.59	20
MACHINERY AND EQUIP MAINT MATE		307427400 VARIOUS ELECTRICAL PARTS		1,724.78	18
		307467700 VARIOUS ELECTRICAL PARTS		1,606.71	18
MISCELLANEOUS		307467700 VARIOUS ELECTRICAL PARTS		1,606.72	18
C H BULL COMPANY	22647		2,865.04		
MACHINERY AND EQUIP MAINT MATE		L30022 QTY 1 SALA WINCH		921.68	18
		L30023 QTY 1 SALA WINCH		921.68	18
		L30024 QTY 1 SALA WINCH		1,021.68	18
CA ST EMPLOYMENT DEVELOPMENT D	22648		4,275.00		
ADMINISTRATIVE EXPENSES		L1662397600 10/1-12/31/17 EMPLOYMENT TAX DUE FOR UNEMP		4,275.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CALIFORNIA DETAILERS, INC.	22649		550.00		
MACH & EQUIP MAINT SERVICES		45637 12/24/17 FLEET VEHICLE ON-SITE WASH		275.00	18
		45716 1/6/18 FLEET VEHICLE ON-SITE WASH		275.00	18
CALIFORNIA WATER SERVICE CO	22650		192.01		
UTILITIES		1162018 12/14/17-1/12/18 SCPS WATER SERVICE		192.01	18
CALTEST ANALYTICAL LABORATORY	22651		58.50		
CONTRACT SERV. (NON-MAINT.)		581660 NUTRIENT PERMIT LAB ANALYSIS		58.50	18
CASCADE INTEGRATION & DEVELOPM	22652		10,800.00		
CAPITAL		1438 12/17 T.O.2015-04 PUMP STATION PLC REPLACEMENT CO		911.25	14
		1438 12/17 T.O.2015-04 PUMP STATION PLC REPLACEMENT CO		911.25	14
		1438 12/17 T.O.2015-04 PUMP STATION PLC REPLACEMENT CO		911.25	14
		1438 12/17 T.O.2015-04 PUMP STATION PLC REPLACEMENT CO		911.25	14
CONSTRUCTION-DESIGN		1439 12/17 T.O.2016-01 SPA TASKS		2,385.00	20
		1439 12/17 T.O.2016-01 SPA TASKS		2,385.00	20
		1439 12/17 T.O.2016-01 SPA TASKS		2,385.00	20
CHARLES P. CROWLEY COMPANY, IN	22653		308.97		
MISCELLANEOUS		24377 QTY 3 G SERIES PARTS KIT VALVE REBUILD		308.97	18
CHAVAN & ASSOCIATES, LLP	22654		2,500.00		
ADMINISTRATIVE EXPENSES		CA1575 ADMIN EXPENSE - AUDIT FEES		2,500.00	18
CINTAS CORPORATION NO. 3	22655		893.25		
SUPPLIES		464103717 1/30/18 LAUNDRY SERVICE		893.25	18
COCCONI ELECTRIC	22656		8,798.75		
MACH & EQUIP MAINT SERVICES		A11039 MATERIAL AND INSTALLATION OF CONDUIT		8,798.75	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
COLLABORATIVE STRATEGIES CONSU CONSTRUCTION-DESIGN	22657		17,377.50		
		7702SV0118 11/5/17-1/25/18 T.O.2017-02 LANDSCAPE OF WE		5,880.50	20
		21501SV0118 11/5/17-1/25/18 T.O.2017-01 PROP ACQUISITI		4,567.50	20
		3TO03JAN2018 12/28/17-1/25/18 T.O.2017-03 MPPS PROJ MG		1,627.50	20
		3TO04DEC2017 12/28/17-1/25/18 T.O.2017-04 RCPS PROJ MG		5,302.00	20
CONSOLIDATED PARTS INC.	22658		116.89		
MACHINERY AND EQUIP MAINT MATE		5044678 QTY 4 BOLT ON 20A DUPLEX		116.89	18
D.C. FROST ASSOCIATES INC.	22659		26,192.70		
MISCELLANEOUS		20228 QTY 1 FULLY ASSEMBLED DORRCLONE		26,192.70	18
DAVID J POWERS AND ASSOCIATES, CONSTRUCTION-DESIGN CONSTRUCTION-CONTRACTOR CONSTRUCTION-DESIGN	22660		7,673.42		
		2017016 12/17 T.O.2017-01 PHASE1 CONSTRUCTION MONITORI		1,000.87	20
		2017016 12/17 T.O.2017-01 PHASE1 CONSTRUCTION MONITORI		1,000.88	20
		20150224 11/1-11/30/17 T.O.2015-02 PROGRAM EIR PREPARA		1,177.50	20
		20150225 12/1-12/31/17 T.O.2015-02 PROGRAM EIR PREPARA		510.25	20
		20160113 11/17 T.O.2016-01 SRF FUNDING PREP FOR WWTP I		919.75	20
		20160114 12/17 T.O.2016-01 SRF FUNDING PREP FOR WWTP I		3,064.17	20
DCM CONSULTING, INC.	22661		3,990.00		
PROFESSIONAL SERVICES		118A2 12/1/17-1/18/18 T.O.2017-01 12KV SWITCHGEAR PROJ		3,990.00	18
DENCO CONTROLS INC.	22662		1,000.04		
MISCELLANEOUS		18180 QTY 1 PRESSURE GAUGE, QTY 1 DIAPH SEAL		825.79	18
		18207 QTY 3 PRESSURE GAUGES		174.25	18
DKF SOLUTIONS GROUP, LLC	22663		335.00		
CONTRACT SERV. (NON-MAINT.)		13697 2/28/18 REGISTRATION FEE FOR OSHA SEMINAR - LEE,		335.00	18
EMD MILLIPORE CORPORATION	22664		879.00		
MACH & EQUIP MAINT SERVICES		8315623 SERVICE REPAIR		879.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
ENVIRONMENTAL EXPRESS, INC	22665		808.28		
SUPPLIES		1000493383 LAB SUPPLIES		278.02	18
		1000493441 LAB SUPPLIES		530.26	18
EPPENDORF NORTH AMERICA	22666		1,104.91		
SMALL TOOLS		4000737876 QTY 10 XPLOER PLUS		1,104.91	18
FASTENAL COMPANY	22667		2,014.31		
SUPPLIES		CASAA56905 VENDOR MANAGED RESTOCK		1,714.44	18
MACHINERY AND EQUIP MAINT MATE		CASAA57035 VENDOR MANAGED RESTOCK		299.87	18
FERGUSON ENTERPRISES INC	22668		153.23		
MACHINERY AND EQUIP MAINT MATE		5812976 QTY 1 LF 2 COMM WTR HAMMER ARRESTOR		153.23	18
FISHER SCIENTIFIC COMPANY, LLC	22669		1,264.91		
MISCELLANEOUS		7848488 LAB SUPPLIES		904.88	18
SUPPLIES		8107331 LAB SUPPLIES		355.83	18
		8107331 LAB SUPPLIES		4.20	18
FONG, PETER	22670		252.79		
TRAINING		2092018 REIM-1/7-1/10/18 TRAVEL EXPENSE-MGMT & SUPV LD		252.79	18
FREYER & LAURETA, INC	22671		20,091.80		
CONSTRUCTION-DESIGN		17644 10/1-11/30/17 T.O.2017-05 GEOTECHNICAL SAMPLING		19,751.80	20
CONSTRUCTION-CONTRACTOR		18031 12/1-12/31/17 T.O.2014-04 FORCE MAIN ALIGNMENT S		340.00	20
FRONTIER ANALYTICAL LABORATORY	22672		800.00		
CONTRACT SERV. (NON-MAINT.)		20422 NPDES PERMIT LAB ANALYSIS		800.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
GLOBAL INDUSTRIAL SUPPLIES	22673		1,226.09		
		112080424 QTY 1 STEEL ROLLING LADDER, QTY 1 OSHA HANDR		521.95	18
		112080424 QTY 1 STEEL ROLLING LADDER, QTY 1 OSHA HANDR		101.08	18
		112080424 QTY 1 STEEL ROLLING LADDER, QTY 1 OSHA HANDR		603.06	18
GRAINGER	22674		7,561.05		
MISCELLANEOUS		9660372617 RESTOCK ITEMS		111.28	18
		9660372617 RESTOCK ITEMS		372.88	18
		9669982010 RESTOCK ITEMS		21.63	18
		9669982010 RESTOCK ITEMS		24.19	18
SMALL TOOLS		9673601614 RESTOCK ITEMS		5,066.04	18
		9676070528 RESTOCK ITEMS		432.84	18
		9676070528 RESTOCK ITEMS		121.58	18
		9676070528 RESTOCK ITEMS		126.85	18
MISCELLANEOUS		9678508483 RESTOCK ITEMS		130.17	18
		9678508483 RESTOCK ITEMS		68.89	18
		9678508483 RESTOCK ITEMS		92.23	18
SUPPLIES		9678508483 RESTOCK ITEMS		197.32	18
		9678508483 RESTOCK ITEMS		408.25	18
MACHINERY AND EQUIP MAINT MATE		9679697392 RESTOCK ITEMS		106.74	18
		9679697392 RESTOCK ITEMS		84.18	18
		9679697392 RESTOCK ITEMS		167.88	18
		9681840089 RESTOCK ITEMS		28.10	18
HANSEN, ERIC	22675		200.00		
CONF. & TRAV.		2092018 REIM-1/18/18 CERTIFICATION/LICENSE FEE - AAES		200.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
HARRINGTON INDUST PLASTICS	22676		207.94		
MISCELLANEOUS		3L8026 PLUMBING SUPPLIES		96.45	18
		3L8026 PLUMBING SUPPLIES		10.64	18
		3L8026 PLUMBING SUPPLIES		27.76	18
		3L8026 PLUMBING SUPPLIES		17.94	18
		3L8135 PLUMBING SUPPLIES		55.15	18
HIESTAND, SUSAN	22677		260.00		
SUPPLIES		2092018 REIM-1/22/18 SAFETY SHOES		260.00	18
HILLYARD INC	22678		1,468.05		
SUPPLIES		602844812 JANITOR SUPPLIES		29.95	18
MISCELLANEOUS		602844812 JANITOR SUPPLIES		407.68	18
		602844812 JANITOR SUPPLIES		406.73	18
		602844812 JANITOR SUPPLIES		199.97	18
		602844812 JANITOR SUPPLIES		64.79	18
		602844812 JANITOR SUPPLIES		48.29	18
		602844812 JANITOR SUPPLIES		52.74	18
		602844812 JANITOR SUPPLIES		135.72	18
		602844812 JANITOR SUPPLIES		122.18	18
HOME DEPOT CREDIT SERVICES	22679		640.97		
MACHINERY AND EQUIP MAINT MATE		1904874 QTY 1 DISHWASHER		640.97	18
HOPKINS TECHNICAL PRODUCTS, IN	22680		10,602.00		
MACHINERY AND EQUIP MAINT MATE		3618300050 QTY 2 SOLUTION TUBE		3,419.85	18
MISCELLANEOUS		3618300051 QTY 50 DIAPHRAGM CAP		7,182.15	18
HUI, CYNTHIA	22681		45.00		
UTILITIES		2092018 REIM-1/18 CELL PHONE EXPENSE		45.00	18

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INORGANIC VENTURES	22682		445.46		
MISCELLANEOUS		198257INTAX SALES TAX LIABILITY		-37.36	18
SUPPLIES		198257IN LAB SUPPLIES		464.36	18
		198257IN LAB SUPPLIES		18.46	18
J.F. SHEA/PARSONS, A JOINT VEN	22683		351,250.00		
CONST.-ADMIN. & LEGAL		2POM10913 1/1-1/30/18 PRG PMT#2 FRONT OF PLANT - STAGE		117,083.33	20
		2POM10913 1/1-1/30/18 PRG PMT#2 FRONT OF PLANT - STAGE		117,083.33	20
		2POM10913 1/1-1/30/18 PRG PMT#2 FRONT OF PLANT - STAGE		117,083.34	20
JENTECH SERVICES	22684		7,516.20		
MACH & EQUIP MAINT SERVICES		2247 1/22-2/1/18 INSTRUMENTATION AND ELECTRICAL SERVIC		102.00	18
		2247 1/22-2/1/18 INSTRUMENTATION AND ELECTRICAL SERVIC		918.00	18
		2247 1/22-2/1/18 INSTRUMENTATION AND ELECTRICAL SERVIC		4,284.00	18
		2247 1/22-2/1/18 INSTRUMENTATION AND ELECTRICAL SERVIC		2,212.20	18
JHS CONSULTING, LLC	22685		13,585.00		
CONST.-ADMIN. & LEGAL		2017031 11/1-12/31/17 T.O.2017-03 STAGE1 DSG-BLD SUPPL		9,295.00	20
		2017041 11/1-12/31/17 T.O.2017-04 SUP FOR ENV SVCS DUR		1,072.50	20
		2017041 11/1-12/31/17 T.O.2017-04 SUP FOR ENV SVCS DUR		1,072.50	20
		2017041 11/1-12/31/17 T.O.2017-04 SUP FOR ENV SVCS DUR		1,072.50	20
		2017041 11/1-12/31/17 T.O.2017-04 SUP FOR ENV SVCS DUR		1,072.50	20
KARLA'S JANITORIAL SERVICE	22686		6,700.00		
CONTRACT SERV. (NON-MAINT.)		2130 01/18 JANITORIAL SERVICES		6,700.00	18
KEENAN SUPPLY	22687		1,828.93		
MISCELLANEOUS		S009847527001 QTY 2 30 EPDM GASKET		1,828.93	18
KELLER INDUSTRIES INC	22688		1,305.00		
MACH & EQUIP MAINT SERVICES		15884 QTY 8 ANGLE IRON		1,305.00	18

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KENNEDY/JENKS CONSULTANTS, INC	22689		34,812.02		
CONSTRUCTION-DESIGN		116458 THRU 9/29/17 T.O.2017-03 WWTP IMP PHASE2-ALT DL		1,204.06	20
		116458 THRU 9/29/17 T.O.2017-03 WWTP IMP PHASE2-ALT DL		2,040.22	20
		116458 THRU 9/29/17 T.O.2017-03 WWTP IMP PHASE2-ALT DL		16,054.18	20
		116458 THRU 9/29/17 T.O.2017-03 WWTP IMP PHASE2-ALT DL		11,137.58	20
		116458 THRU 9/29/17 T.O.2017-03 WWTP IMP PHASE2-ALT DL		1,605.42	20
		116458 THRU 9/29/17 T.O.2017-03 WWTP IMP PHASE2-ALT DL		1,404.74	20
CONST.-ADMIN. & LEGAL		118939 THRU 12/29/17 T.O.2017-07 DESIGN STD DEVEL-PHAS		915.08	20
		118939 THRU 12/29/17 T.O.2017-07 DESIGN STD DEVEL-PHAS		204.87	20
		118939 THRU 12/29/17 T.O.2017-07 DESIGN STD DEVEL-PHAS		40.97	20
		118939 THRU 12/29/17 T.O.2017-07 DESIGN STD DEVEL-PHAS		177.56	20
		118939 THRU 12/29/17 T.O.2017-07 DESIGN STD DEVEL-PHAS		13.66	20
		118939 THRU 12/29/17 T.O.2017-07 DESIGN STD DEVEL-PHAS		13.68	20
KUMAR, RAJNESH	22690		41.98		
TRAINING		2092018 REIM-1/24/18 PARKING FEE - SF WONDERWARE TRNG		18.00	18
		2092018B REIM-1/24/18 MILEAGE EXPENSE REIMBURSEMENT-SF		23.98	18
LARRY WALKER ASSOCIATES INC.	22691		2,675.00		
PROFESSIONAL SERVICES		64145 THRU 11/30/17 REGULATORY ASSISTANCE ON NPDES PER		2,675.00	18
MADCO WELDING SUPPLY CO	22692		1,238.06		
RENTAL/LEASES		1624 11/27/17 CYLINDER RENTAL		70.00	18
		1918 12/18/17 CYLINDER RENTAL		75.00	18
SUPPLIES		G52999 12/29/17 COMPRESSED GASES		629.92	18
		G53210 1/19/18 COMPRESSED GASES		463.14	18
MCMMASTER-CARR SUPPLY CO.	22693		82.23		
MISCELLANEOUS		54024965 QTY 2 HIGH VELOCITY WINDSOCKS		82.23	18
MOTION INDUSTRIES INC.	22694		1,179.30		
MACHINERY AND EQUIP MAINT MATE		CA24025578 VARIOUS SIZES HOSE ENDS/STEEL CLAMPS		1,179.30	18

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NEWARK ELEMENT14	22695		350.68		
MACHINERY AND EQUIP MAINT MATE		29895081 QTY 2 FILTER MATERIAL ROTARY PRESS THERMOSTAT		350.68	18
NORTH CENTRAL LABORATORIES	22696		306.22		
MISCELLANEOUS		392685TAX SALES TAX LIABILITY		-23.63	18
SUPPLIES		392685 QTY 6 50ML BOD STD 198PPM		329.85	18
OFFICE DEPOT	22697		45.77		
OFFICE SUPPLIES		997509439002 OFFICE SUPPLIES		45.77	18
SUPPLIES		997999427001 OFFICE SUPPLIES		418.38	18
		998678317001 OFFICE SUPPLIES		-358.99	18
		998678318001 OFFICE SUPPLIES		-59.39	18
OGASAWARA LANDSCAPE MAINTENANC	22698		2,650.00		
CONSTRUCTION-CONTRACTOR		24630 1/29/18 MISC LANDSCAPING		600.00	20
CONTRACT SERV. (NON-MAINT.)		24618A 01/18 LANDSCAPING SERVICE		2,050.00	18
OPENING TECHNOLOGIES, INC.	22699		2,073.70		
SUPPLIES		1810066 QTY 4 PROXIMITY KEYPAD READER		2,064.34	18
		1810066 QTY 4 PROXIMITY KEYPAD READER		9.36	18
PACE SUPPLY CORP	22700		365.48		
MISCELLANEOUS		94217288 PLUMBING SUPPLIES		45.22	18
		94319954 PLUMBING SUPPLIES		154.95	18
		94319954 PLUMBING SUPPLIES		165.31	18
PACIFIC GAS AND ELECTRIC COMPA	22701		124,922.92		
UTILITIES		123201883066 11/27-12/25/17 PLANT ELECTRIC		62,997.07	18
		126201826195 12/22/17-1/22/18 MPPS ELECTRIC		3,513.61	18
		129201883066 12/26/17-1/24/18 PLANT ELECTRIC		58,412.24	18

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PACIFIC WATER RESOURCES	22702		1,212.77		
MACHINERY AND EQUIP MAINT MATE		18104 QTY 4 PURAFIL ODORCARE/ODORMIX MEDIA		128.10	18
		18104 QTY 4 PURAFIL ODORCARE/ODORMIX MEDIA		590.62	18
		18104 QTY 4 PURAFIL ODORCARE/ODORMIX MEDIA		494.05	18
PAPE MATERIAL HANDLING INC.	22703		1,557.45		
MACHINERY AND EQUIP MAINT MATE		10152471 1/2/18 FORKLIFT SERVICE		1,064.45	18
		10152471 1/2/18 FORKLIFT SERVICE		493.00	18
QUINCY COMPRESSOR LLC	22704		2,186.33		
MACHINERY AND EQUIP MAINT MATE		871332 VARIOUS QUINCY FILTERS		15.00	18
MISCELLANEOUS		871332 VARIOUS QUINCY FILTERS		677.71	18
		872526 VARIOUS QUINCY FILTERS		1,337.41	18
MACHINERY AND EQUIP MAINT MATE		872526 VARIOUS QUINCY FILTERS		156.21	18
R & B COMPANY	22705		408.46		
MACHINERY AND EQUIP MAINT MATE		S1701189002 FREIGHT BILL ON INV S1701189001		13.25	18
		S1706142001 PLUMBING SUPPLIES		395.21	18
R & S ERECTION NORTH PENINSULA	22706		7,226.00		
MACH & EQUIP MAINT SERVICES		44213 12/11/17 LABOR TO REPAIR METAL DOOR #2		5,661.00	18
		44396 1/5/18 LABOR TO REPAIR SAFETY EDGE		327.00	18
		44415 1/8/18 LABOR TO REPAIR GLASS ALUMINUM DOORS		1,238.00	18
RED WING SHOE STORE	22707		260.00		
SUPPLIES		152129253 1/19/18 SAFETY SHOES - AXIAQ, PAUL		260.00	18
ROYAL WHOLESALE ELECTRIC	22708		39.31		
MISCELLANEOUS		7003653161 VARIOUS CONDUIT PARTS		39.31	18
SAN MATEO COUNTY MOSQUITO AND	22709		102.47		
CONTRACT SERV. (NON-MAINT.)		SM1700176 11/30/17 MOSQUITO AND VECTOR CONTROL		102.47	18

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SHIMMICK CONSTRUCTION COMPANY, CONSTRUCTION-CONSTRUCTION MGMT	22710		50,000.00		
		7226 STIPEND FOR FOP PROPOSAL PROJECT 6013, 6014, 9160		12,500.00	20
		7226 STIPEND FOR FOP PROPOSAL PROJECT 6013, 6014, 9160		12,500.00	20
		7226 STIPEND FOR FOP PROPOSAL PROJECT 6013, 6014, 9160		12,500.00	20
		7226 STIPEND FOR FOP PROPOSAL PROJECT 6013, 6014, 9160		12,500.00	20
STATE WATER RESOURCES CONTROL TRAINING	22711		300.00		
		2072018MCCLURE SWRCB KEITH A MCCLURE RENEAL CERT#11021		150.00	18
		2072018WONG SWRCB RAYMOND WONG RENEAL CERT#39654		150.00	18
SYNAGRO TECHNOLOGIES INC CONTRACT SERV. (NON-MAINT.)	22712		70,763.64		
		3103198 12/17 BIOSOLIDS HAULING		70,763.64	18
TANNER PACIFIC, INC. CONSTRUCTION-CONTRACTOR	22713		5,002.50		
		218014 6/18/17-1/20/18 T.O.2017-01 CONTROL BUILDING HV		5,002.50	14
THATCHER COMPANY OF CALIFORNIA CHEMICAL SUPPLIES	22714		15,726.36		
		247162 12/20/17 44800 LB TRIOXYN		7,843.92	18
		247407 1/3/18 44720 LB TRIOXYN		7,882.44	18
THE FERGUSON GROUP LLC CONSTRUCTION-DESIGN	22715		1,650.80		
		1217560 12/1-12/18/17 T.O.2017-01 WIFIA CONSULTING SVC		890.50	20
		1217560B REIM-10/17-12/16/17 TELEPHONE/DUES&SUBSCR EXP		760.30	20
THOMAS-SWAN SIGN COMPANY, INC CONST.-ADMIN. & LEGAL	22716		883.00		
		2092018 QTY 3 ROOM NUMBER SIGNS-INSTALLATION/MFG/TAX/S		883.00	14
TRIMARK ASSOCIATES INC UTILITIES	22717		6,480.00		
		990276201718 11/1/17-11/30/21 SGIP DATA SUBMITTALS ON-		1,620.00	18
		990276201721 11/1/17-11/30/21 SGIP DATA SUBMITTALS ON-		1,620.00	18
		990276201721 11/1/17-11/30/21 SGIP DATA SUBMITTALS ON-		1,620.00	18
		990276201721 11/1/17-11/30/21 SGIP DATA SUBMITTALS ON-		1,620.00	18

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TSUKUSHI, RICHARD	22718		107.00		
MACHINERY AND EQUIP MAINT MATE		5558 12/25/17 BLPS BACKFLOW SERVICE		107.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
U.S. BANK CORPORATE PAYMENT SY SUPPLIES	22719		10,057.24		
		1222018BB1 12/23/17 NEW OFFICES-TRAILER IT SUPPLIES -		65.90	18
		1222018BB2 12/25/17 IT NETWORK PATCH CABLES - CDW		689.89	18
		1222018BB3 12/27/17 IT NETWORK PATCH CABLES - CDW		27.51	18
		1222018BB4 1/3/18 IT MS OFFICE 0365 LICENSE - MICROSOFT		180.00	18
		1222018BB5 1/14/18 MS VISIO SOFTWARE - MICROSOFT		30.00	18
		1222018BB6 1/14/18 MS 0365 SERVER LICENSE - MICROSOFT		56.00	18
		1222018BB7 1/14/18 MS USER LICENSE FEE - MICROSOFT		180.00	18
		1222018DC1 12/21/17 DESIGN OF WRR HANDBOOK - WEF MAIN		277.50	18
		1222018DC2 12/29/17 FUEL EXPENSE - CHEVRON GAS		40.00	18
RENTAL/LEASES SUPPLIES		1222018DC3 12/30/17 STORAGE UNIT FEE - PUBLIC STORAGE		1,566.00	18
		1222018DC4 1/1/18 FUEL EXPENSE - MAVERIK		75.00	18
		1222018DC5 1/1/18 FUEL EXPENSE - CONOCO		32.00	18
		1222018DC6 1/4/18 FUEL EXPENSE - MAVERIK		82.50	18
		1222018DC7 1/6/18 FUEL EXPENSE - MAVERIK		61.15	18
		1222018DC8 1/7/18 FUEL EXPENSE - MAVERIK		53.95	18
		1222018DC9 1/7/18 FUEL EXPENSE - LOVES		72.00	18
		1222018DL1 1/3/18 QTY 2 ERGONOMIC CHAIRS - ERGODIRECT		1,409.23	18
		1222018DL1 1/3/18 QTY 2 ERGONOMIC CHAIRS - ERGODIRECT		-74.61	18
CONF. & TRAV. TRAINING		1222018EM1 1/4/18 REGISTRATION FEES FOR FONG, PADUA JR		810.00	18
		1222018EM2 1/8/18 REGISTRATION FEE FOR BRUBAKER SEMINA		245.00	18
		1222018EM3 1/8/18 LODGING EXPENSE FOR TRAINING FOR ROO		534.24	18
CONF. & TRAV. TRAINING		1222018EM4 1/8/18 REGISTRATION FEE FOR ROONEY P3 CONFE		545.00	18
		1222018EM5 1/10/18 LODGING EXPENSE FOR FONG FOR TRAINI		534.24	18
		1222018EM6 1/11/18 MEAL EXPENSE FOR ROONEY AT CONFEREN		45.36	18
		1222018EM7 1/11/18 REGISTRATION FEE FOR CHRIS CHILD TR		1,100.00	18
		1222018EM8 1/15/18 REGISTRATION FEE FOR DEGUZMAN, SERR		675.00	18
CONF. & TRAV. SUPPLIES		1222018EM9 1/15/18 REGISTRATION FEE FOR HIESTAND CONFE		545.00	18
		1222018IS1 1/3/18 SVCW BUSINESS CARDS FOR ERIC HANSEN		40.66	18
		1222018IS2 1/6/18 REFRESHMENTS FOR SVCW MONTHLY MEETIN		126.76	18
		1222018IS3 1/8/18 SVCW BUSINESS CARDS FOR PETER FONG -		31.96	18

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U.S. BANK CORPORATE PAYMENT SY	22720		8,071.29		
SUPPLIES		1222018IS4 1/17/18 REFRESHMENTS FOR SPECIAL COMMISSION		18.22	18
MACH & EQUIP MAINT SERVICES		1222018MA1 12/22/17 SVCW VEHICLE MAINTENANCE - AUTO PR		20.99	18
SUPPLIES		1222018MA2 12/22/17 FUEL EXPENSE - CHEVRON GAS		44.32	18
		1222018MA3 12/26/17 FUEL EXPENSE - CONSERV FUEL		45.18	18
ADMINISTRATIVE EXPENSES		1222018MA4 1/10/18 TOLL CHARGES - FASTRAK		195.00	18
MACH & EQUIP MAINT SERVICES		1222018MH1 1/15/18 SVCW VEHICLE MAINTENANCE -AUTO PRID		105.74	18
TRAINING		1222018RH1 1/16/18 RENEWAL CERTIFICATE FEE FOR RAMIN H		90.00	18
CONST.-ADMIN. & LEGAL		1222018SS1 CREDIT MEMO HOME DEPOT 1222017SS3		-49.99	20
CONF. & TRAV.		1222018SS5 1/8/18 CONFERENCE MEAL - CUNNINGHAMS		26.75	18
		1222018SS6 1/10/18 CONFERENCE HOTEL - COURTYARD MARRIO		10.93	18
		1222018SS7 1/11/18 CONFERENCE MEAL - COURTYARD		13.59	18
		1222018SS8 1/11/18 CONFERENCE MEAL - LAS CASUELAS		30.00	18
		1222018SS9 1/13/18 CONFERENCE HOTEL - COURTYARD		801.35	18
MEMB. & MEET.		1222018TH1 12/28/17 QTY 1 CLOUD STORAGE APP - APL ITUN		0.99	18
CONF. & TRAV.		1222018TH2 1/3/18 REGISTRATION FEE FOR 6 PARTICIPANTS		2,350.00	18
		1222018TH3 1/11/18 AIRFARE TO DBIA CONFERENCE PLANE TI		15.00	18
		1222018TH4 1/11/18 AIRFARE TO DBIA CONFERENCE PLANE TI		15.00	18
		1222018TH5 1/11/18 AIRFARE TO DBIA CONFERENCE - SOUTHW		247.96	18
SUPPLIES		1222018TH6 1/16/18 FUEL EXPENSE - RECEIPT LOST FOR MON		52.27	18
		1222018VV1 1/3/18 NEW OFFICE BOARDS - BELNICK RETAIL		912.24	18
		1222018VV2 1/16/18 REFRESHMENTS FOR WWTP WORKSHOP - GR		611.30	18
PROFESSIONAL SERVICES		1222018VV3 1/16/18 CONFERENCE REGISTRATION FOR EJ SHAL		550.00	18
SUPPLIES		1222018DC10 1/12/18 FUEL EXPENSE - EXXONMOBIL		78.01	18
		1222018DC11 1/15/18 FUEL EXPENSE - WESTSIDE 76		95.00	18
MEMB. & MEET.		1222018EM10 1/17/18 2018 ANNUAL WEF/CWEA MEMBERSHIP RE		320.00	18
		1222018EM11 1/17/18 2018 ANNUAL WEF/CWEA MEMBERSHIP RE		320.00	18
		1222018EM12 1/17/18 2018 ANNUAL WEF/CWEA MEMBERSHIP RE		320.00	18
		1222018EM13 1/18/18 2018 ANNUAL WEF/CWEA MEMBERSHIP RE		180.00	18
CONF. & TRAV.		1222018EM14 1/19/18 REGISTRATION FEE FOR DALY CONFEREN		658.00	18
MISCELLANEOUS		1222018DM1TAX 12/28/17 SALES TAX LIABILITY		-6.56	18

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U.S. BANK CORPORATE PAYMENT SY	22721		2,519.53		
MISCELLANEOUS		1222018DM3TAX 1/4/18 SALES TAX LIABILITY		-5.15	18
		1222018DM8TAX 1/10/18 SALES TAX LIABILITY		-1.66	18
		1222018DM9TAX 1/10/18 SALES TAX LIABILITY		-1.76	18
		1222018JD1TAX 12/22/17 SALES TAX LIABILITY		-2.82	18
		1222018JD6TAX 1/10/18 SALES TAX LIABILITY		-47.68	18
		1222018DM12TAX 1/14/18 SALES TAX LIABILITY		-2.82	18
		1222018JD10TAX 1/15/18 SALES TAX LIABILITY		-2.80	18
		1222018JD11TAX 1/15/18 SALES TAX LIABILITY		-5.69	18
		1222018JD13TAX 1/18/18 SALES TAX LIABILITY		-6.42	18
SUPPLIES		1222018DM1 12/28/17 QTY 1 MARATHON JUMBO ATOMIC WALL C		81.51	18
		1222018DM10 1/11/18 QTY 4 PENN PLAX AIRLINE TUBING - A		13.00	18
		1222018DM11 1/13/18 QTY 5 3PK ELITE MIST AIR STONE - AM		16.25	18
		1222018DM12 1/14/18 QTY 2 18LPM AQUARIUM AIR PUMP, QTY		34.97	18
		1222018DM12 1/14/18 QTY 2 18LPM AQUARIUM AIR PUMP, QTY		16.26	18
		1222018DM13 1/16/18 QTY 1 WELDWOOD NON FLAMMABLE CONTA		19.55	18
		1222018DM2 12/29/17 QTY 50 BOTTLED WATER - COSTCO		385.00	18
		1222018DM3.4.5 1/4/18 QTY 8 BAGS BAKING SODA - JET.COM		64.03	18
MACHINERY AND EQUIP MAINT MATE		1222018DM6 1/4/18 QTY 2 FLEX BIT AUGER .75" X 72"		116.43	18
SMALL TOOLS		1222018DM7 1/10/18 QTY 2 BRIGGS & STRATTON OIL FILTER		18.84	18
SUPPLIES		1222018DM8 1/10/18 QTY 1 4PK BIC MULTIPURPOSE LIGHTERS		20.65	18
MACHINERY AND EQUIP MAINT MATE		1222018DM9 1/10/18 QTY 4 FILTER SCREEN CLAVAL STRAINER		21.92	18
SUPPLIES		1222018DM9 1/10/18 QTY 4 FILTER SCREEN CLAVAL STRAINER		15.99	18
		1222018JD1 12/22/17 QTY 2 SCISSORS, QTY 2 AQUARIUM AIR		72.36	18
		1222018JD1 12/22/17 QTY 2 SCISSORS, QTY 2 AQUARIUM AIR		21.49	18
		1222018JD1 12/22/17 QTY 2 SCISSORS, QTY 2 AQUARIUM AIR		34.87	18
MISCELLANEOUS		1222018JD10 1/15/18 QTY 2 LAB SUPPLIES - AMAZON		34.78	18
SUPPLIES		1222018JD11 1/15/18 QTY 1 HAND SOAP, QTY 1 SOAP DISPEN		21.74	18
		1222018JD11 1/15/18 QTY 1 HAND SOAP, QTY 1 SOAP DISPEN		48.94	18
MACHINERY AND EQUIP MAINT MATE		1222018JD12 1/18/18 QTY 3 SPARE 304SS SLIDING WAVEGUI		1,442.03	18
MISCELLANEOUS		1222018JD13 1/18/18 QTY 1 SPECIAL CST PAPER - OFI TEST		95.72	18

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U.S. BANK CORPORATE PAYMENT SY	22722		4,424.20		
MACHINERY AND EQUIP MAINT MATE		1222018JD2 1/2/18 QTY 1 DOOR GASKET ASEMBLY - AMAZON		15.49	18
		1222018JD3 1/4/18 QTY 1 SEALS - AMAZON		19.30	18
SMALL TOOLS		1222018JD4.5 1/8/18 QTY 1 VACUUM HOSE, QTY 1 WET/DRY V		54.34	18
		1222018JD4.5 1/8/18 QTY 1 VACUUM HOSE, QTY 1 WET/DRY V		21.72	18
SUPPLIES		1222018JD6 1/10/18 QTY 4 - ENGINE BLOCKS - INDUSTRIAL		48.49	18
MISCELLANEOUS		1222018JD6 1/10/18 QTY 4 - ENGINE BLOCKS - INDUSTRIAL		588.70	18
		1222018JD7 1/12/18 QTY 2 RUBBER BLACK WATER HOSE - HOM		65.18	18
		1222018JD8 1/12/18 QTY 6 DIAPHRAGM - PUMPING SOLUTIONS		349.09	18
		1222018JD9 1/13/18 QTY 17 CARHARTT HIGH VISIBILITY WAT		381.73	18
		1222018JD9 1/13/18 QTY 17 CARHARTT HIGH VISIBILITY WAT		407.78	18
		1222018JD9 1/13/18 QTY 17 CARHARTT HIGH VISIBILITY WAT		508.91	18
		1222018JD9 1/13/18 QTY 17 CARHARTT HIGH VISIBILITY WAT		508.91	18
		1222018JD9 1/13/18 QTY 17 CARHARTT HIGH VISIBILITY WAT		543.71	18
SUPPLIES		1222018SS2 12/22/17 QTY 1 WATER PRESSURE TEST GAUGE -		10.85	18
MACH & EQUIP MAINT SERVICES		1222018SS3 1/3/18 SERVICE - MOVE AIR UP SYSTEM - PORTA		350.00	18
RENTAL/LEASES		1222018SS4 1/4/18 DEBRIS BOX - PENINSULA DEBRIS		550.00	18
UNIVAR USA INC.	22723		10,539.50		
CHEMICAL SUPPLIES		SJ859492 1/16/18 4452.66 GAL BISULFITE		6,294.96	18
		SJ860180 1/20/18 4000 GAL SOD HYPO		2,122.80	18
		SJ860744 1/24/18 3998 GAL SOD HYPO		2,121.74	18
USA BLUE BOOK	22724		152.51		
MACHINERY AND EQUIP MAINT MATE		462627 CREDIT MEMO FOR INV 421056		-1,780.54	18
		470973 QTY 1 NEPTUNE HGL TOTE MIXER 430 RPM		138.73	18
		470973 QTY 1 NEPTUNE HGL TOTE MIXER 430 RPM		1,794.32	18
VALLEY OIL COMPANY (VEHICLE FU	22725		390.58		
SUPPLIES		491464 12/16-12/31/17 FUEL CHARGES		390.58	18

SILICON VALLEY CLEAN WATER
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
VERIZON WIRELESS UTILITIES	22726		2,084.87		
		9800177502 12/20/17-1/19/18 VERIZON SERVICES		1,998.83	18
		9800177503 12/20/17-1/19/18 VERIZON SERVICES		76.02	18
		9800486541 12/24/17-1/23/18 VERIZON SERVICES		10.02	18
WANDRO, ROBERT UTILITIES MEMB. & MEET.	22727		76.61		
		2092018 REIM-12/18/17-1/17/18 CELL PHONE EXPENSE		45.00	18
		2092018B REIM-1/19/18 MILEAGE EXPENSE REIMBURSEMENT-BA		31.61	18
WELLS FARGO-COMML OPERATIONS INTEREST EXPENSES	22728		20,121.58		
		181009734142 LOC#7829596836 1/18 INTEREST FEE-LINE OF		5,400.63	20
		181009734142 LOC#7829596836 1/18 INTEREST FEE-LINE OF		9,773.05	20
		181009734142 LOC#7829596836 1/18 INTEREST FEE-LINE OF		1,901.49	20
		181009734142 LOC#7829596836 1/18 INTEREST FEE-LINE OF		3,046.41	20
WESTERN ENERGY SYSTEMS MACH & EQUIP MAINT SERVICES	22729		17,846.16		
		3835730 12/17 LTSA SERVICE AGREEMENT UNIT 1		8,942.16	18
		3835731 12/17 LTSA SERVICE AGREEMENT UNIT 2		8,904.00	18
WESTERN WEATHER GROUP INC MACH & EQUIP MAINT SERVICES UTILITIES	22730		498.00		
		15586 1/1/18-6/30/18 WEB PAGE HOSTING & VERIZON MOBILE		348.00	18
		15586 1/1/18-6/30/18 WEB PAGE HOSTING & VERIZON MOBILE		150.00	18
WESTIN TECHNOLOGY SOLUTIONS, L PROFESSIONAL SERVICES	22731		275.00		
		10097 JAN2018 PROFESSIONAL SERVICES		275.00	18
WRA ENVIRONMENTAL CONSULTANTS CONTRUCTION-DESIGN	22732		6,331.03		
		201711629975 6/1-6/30/17 T.O.2015-03 BIO & PERMIT SVCS		891.50	20
		201711630336 7/1-7/31/17 T.O.2015-03 BIO & PERMIT SVCS		2,050.72	20
		201711829976 6/1-6/30/17 T.O.2016-01 BIO & PERMIT SVCS		853.00	20
		201711830280 7/1-7/31/17 T.O.2016-01 BIO & PERMIT SVCW		744.50	20
		201711930281 7/1-7/31/17 T.O.2016-02 2017 CA RIDGWAY R		1,791.31	20

SILICON VALLEY CLEAN WATER
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
XEROX CORPORATION	22733		3,298.60		
RENTAL/LEASES					
		91940326 12/13/17-1/30/18 XEROX LEASE		258.00	18
		92147735 12/21/17-1/25/18 XEROX LEASE		246.30	18
		92147736 2/1-2/28/18 XEROX LEASE		241.02	18
		92147737 12/21/17-1/25/18 XEROX LEASE		91.29	18
		92147738 2/1-2/28/18 XEROX LEASE		218.40	18
		92147739 1/15-1/25/18 XEROX LEASE		24.60	18
		92147740 2/1-2/28/18 XEROX LEASE		218.40	18
		92147741 12/21/17-1/25/18 XEROX LEASE		269.21	18
		92147742 2/1-2/28/18 XEROX LEASE		298.29	18
		92147743 12/21/17-1/25/18 XEROX LEASE		573.71	18
		92147744 2/1-2/28/18 XEROX LEASE		464.61	18
		92147745 12/21/17-1/25/18 XEROX LEASE		153.75	18
		92147746 2/1-2/28/18 XEROX LEASE		241.02	18
		TOTAL		\$1,091,814.02	

SVCW WARRANT REGISTER

SVCW Warrant Register dated February 1, 2018 for Retiree Health. A scanned copy was e-mailed to Commissioners on February 1, 2018.

02-01-18

SILICON VALLEY CLEAN WATER
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FUND RECAP

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NAME	FUND	AMOUNT
RETIREE HEALTH INSUR. FD.	12	25,785.16
TOTAL FOR APPROVAL		\$25,785.16

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 10118 THROUGH 10122 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 22491 THROUGH 22529 INCLUSIVE, TOTALING IN THE AMOUNT OF \$25,785.16, HAVE BEEN CHECKED IN DETAIL AND APPROVED BY THE PROPER OFFICIALS, AND IN MY OPINION REPRESENT FAIR AND JUST CHARGES AGAINST THE AUTHORITY IN ACCORDANCE WITH THEIR RESPECTIVE AMOUNTS AS INDICATED THEREON.

RESPECTFULLY SUBMITTED,

.....
DEPUTY TREASURER

1/22/18
DATE

[Signature]
1/30/2018

2/1/18 (Retiree Health)

7B-2

[Signature] 1-31-18

SILICON VALLEY CLEAN WATER
WARRANT REGISTER
02/01/18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CHANDLER, DAVE	22491		1,426.72		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12
FLAHERTY, LISA M.	22492		841.83		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		841.83	12
JONES, LORINE	22493		1,426.72		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12
LEACH, PRESTON L.	22494		183.34		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
SCHIECHL, WARREN	22495		197.76		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		197.76	12
WALSH, WALTER	22496		197.76		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		197.76	12
WIDGER, RICHARD	22497		1,426.72		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12
BAKER, ANDREW	22498		1,189.90		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		1,189.90	12
BEWLEY, JAMES B.	22499		499.68		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
BOVE, LEONARD F.	22500		646.86		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		646.86	12
BRUEMMER, LINDA	22501		646.86		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		646.86	12

SILICON VALLEY CLEAN WATER
W A R R A N T R E G I S T E R
02/01/18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
BUENROSTRO, BENJAMIN	22502		1,426.72		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12
BUSCH, JOSEPH A.	22503		183.34		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
CHAPMAN, ROBERT G	22504		963.20		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		963.20	12
DIAZ, CLARA L.	22505		249.30		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		249.30	12
DONALDSON, ROBERT M.	22506		646.86		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		646.86	12
FAZIO, MICHAEL	22507		183.34		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
FORD, LARENCE	22508		499.68		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
GERKE, FRED	22509		646.86		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		646.86	12
GROSSO, LORNA	22510		183.34		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
HALL, DAVID A.	22511		1,736.35		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		1,736.35	12
HERNANDEZ, JOHN M.	22512		499.68		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		499.68	12

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
JONES, REGGIE H.	22513		197.76		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		197.76	12
KAUFMAN, KENNETH J	22514		183.34		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
KELLY, DIANE L.	22515		558.94		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		558.94	12
KERTZ, FELIX J.	22516		183.34		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
KLOKKE, KARL W.	22517		558.94		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		558.94	12
MA, PO KUI	22518		499.68		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
MURRAY, GENE RODGER	22519		874.42		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		874.42	12
POSCH, MICHAEL A.	22520		499.68		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
REEVES, DENNIS D.	22521		499.68		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
REYES, CESAR V.	22522		499.68		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
SMITH, JULIE	22523		1,426.72		
RETIREE MEDICAL PAYMENTS		218 02/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
SMITH, RAYMOND C. RETIREE MEDICAL PAYMENTS	22524	218 02/18 RETIREE HEALTH PREMIUM REFUND	528.52	528.52	12
STORMS, VERNON GARY RETIREE MEDICAL PAYMENTS	22525	218 02/18 RETIREE HEALTH PREMIUM REFUND	850.14	850.14	12
SUTER, KATHERINE J. RETIREE MEDICAL PAYMENTS	22526	218 02/18 RETIREE HEALTH PREMIUM REFUND	499.68	499.68	12
TAYLOR, TERRY M. RETIREE MEDICAL PAYMENTS	22527	218 02/18 RETIREE HEALTH PREMIUM REFUND	963.20	963.20	12
VON SEEBACH, NANCY RETIREE MEDICAL PAYMENTS	22528	218 02/18 RETIREE HEALTH PREMIUM REFUND	558.94	558.94	12
WOODSTOCK, CRAIG M. RETIREE MEDICAL PAYMENTS	22529	218 02/18 RETIREE HEALTH PREMIUM REFUND	499.68	499.68	12

TOTAL

\$25,785.16

SVCW WARRANT REGISTER

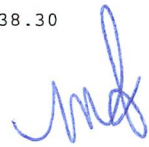
SVCW Warrant Register dated March 1, 2018 for Retiree Health. A scanned copy was e-mailed to Commissioners on February 28, 2018.

03-01-18

SILICON VALLEY CLEAN WATER
WARRANT REGISTER
FUND RECAP

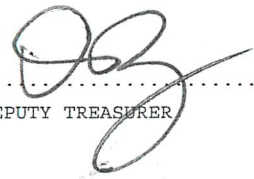
PAGE 0171

NAME	FUND	AMOUNT
RETIREE HEALTH INSUR. FD.	12	25,138.30
TOTAL FOR APPROVAL		\$25,138.30



THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 10167 THROUGH 10171 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 22734 THROUGH 22771 INCLUSIVE, TOTALING IN THE AMOUNT OF \$25,138.30, HAVE BEEN CHECKED IN DETAIL AND APPROVED BY THE PROPER OFFICIALS, AND IN MY OPINION REPRESENT FAIR AND JUST CHARGES AGAINST THE AUTHORITY IN ACCORDANCE WITH THEIR RESPECTIVE AMOUNTS AS INDICATED THEREON.

RESPECTFULLY SUBMITTED,


.....
DEPUTY TREASURER

2/20/18
DATE

3/1/18 (Retiree Health)

7B-2

 2-27-18

SILICON VALLEY CLEAN WATER
W A R R A N T R E G I S T E R
03/01/18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CHANDLER, DAVE	22734		1,426.72		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12
FLAHERTY, LISA M.	22735		841.83		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		841.83	12
JONES, LORINE	22736		1,426.72		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12
LEACH, PRESTON L.	22737		183.34		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
SCHIECHL, WARREN	22738		197.76		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		197.76	12
WALSH, WALTER	22739		197.76		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		197.76	12
WIDGER, RICHARD	22740		1,426.72		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12
BAKER, ANDREW	22741		1,189.90		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		1,189.90	12
BEWLEY, JAMES B.	22742		499.68		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
BOVE, LEONARD F.	22743		646.86		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		646.86	12
BUENROSTRO, BENJAMIN	22744		1,426.72		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
BUSCH, JOSEPH A.	22745		183.34		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
CHAPMAN, ROBERT G	22746		963.20		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		963.20	12
DIAZ, CLARA L.	22747		249.30		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		249.30	12
DONALDSON, ROBERT M.	22748		646.86		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		646.86	12
FAZIO, MICHAEL	22749		183.34		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
FORD, LARENCE	22750		499.68		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
GERKE, FRED	22751		646.86		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		646.86	12
GROSSO, LORNA	22752		183.34		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
HALL, DAVID A.	22753		1,736.35		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		1,736.35	12
HERNANDEZ, JOHN M.	22754		499.68		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
JONES, REGGIE H.	22755		197.76		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		197.76	12

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
KAUFMAN, KENNETH J	22756		183.34		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
KELLY, DIANE L.	22757		558.94		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		558.94	12
KERTZ, FELIX J.	22758		183.34		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		183.34	12
KLOKKE, KARL W.	22759		558.94		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		558.94	12
MA, PO KUI	22760		499.68		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
MURRAY, GENE RODGER	22761		874.42		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		874.42	12
POSCH, MICHAEL A.	22762		499.68		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
REEVES, DENNIS D.	22763		499.68		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
REYES, CESAR V.	22764		499.68		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
SMITH, JULIE	22765		1,426.72		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		1,426.72	12
SMITH, RAYMOND C.	22766		528.52		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		528.52	12

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WARRANT REGISTER
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
STORMS, VERNON GARY	22767		850.14		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		850.14	12
SUTER, KATHERINE J.	22768		499.68		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
TAYLOR, TERRY M.	22769		963.20		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		963.20	12
VON SEEBACH, NANCY	22770		558.94		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		558.94	12
WOODSTOCK, CRAIG M.	22771		499.68		
RETIREE MEDICAL PAYMENTS		318 03/18 RETIREE HEALTH PREMIUM REFUND		499.68	12
TOTAL				\$25,138.30	

SVCW WARRANT REGISTER

SVCW Warrant Register for the period covering December 30, 2017 to January 12, 2018.
A scanned copy was e-mailed to Commissioners on January 15, 2018.

01-12-18

SILICON VALLEY CLEAN WATER
WARRANT REGISTER
FUND RECAP

PAGE 0117

NAME	FUND	AMOUNT
RETIREE HEALTH INSUR. FD.	12	35,000.00
CAPITAL IMPROVEMENT FUND	14	59,595.45
OPERATION	18	457,979.32
PLANT - CIP BOND	20	1,109,007.19
TOTAL FOR APPROVAL		\$1,661,581.96

msb
1/11/2018

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 10101 THROUGH 10117 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 22393 THROUGH 22490 INCLUSIVE, TOTALING IN THE AMOUNT OF \$1,661,581.96, HAVE BEEN CHECKED IN DETAIL AND APPROVED BY THE PROPER OFFICIALS, AND IN MY OPINION REPRESENT FAIR AND JUST CHARGES AGAINST THE AUTHORITY IN ACCORDANCE WITH THEIR RESPECTIVE AMOUNTS AS INDICATED THEREON.

RESPECTFULLY SUBMITTED,

.....
DEPUTY TREASURER 1/11/18
DATE

12/30/17-1/12/18

7B-2

msb 1-11-18

SILICON VALLEY CLEAN WATER
WARRANT REGISTER
01/12/18

PAGE 10101

NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
AKELA, ARVIND	22393		1,941.61		
UTILITIES		1122018 REIM - 12/02/17-1/1/18 CELL PHONE EXPENSE		45.00	18
CONSTRUCTION-CONSTRUCTION MGMT		1122018B REIM-1/3-1/5/18 TRAVEL EXPENSE - RDT WITNESS		1,859.64	20
		1122018B REIM-1/3-1/5/18 TRAVEL EXPENSE - RDT WITNESS		36.97	20
ALHAMBRA & SIERRA SPRINGS	22394		98.48		
SUPPLIES		5056091120117 BOTTLED WATER SERVICE		98.48	18
ALL INDUSTRIAL ELECTRIC SUPPLY	22395		108.72		
SMALL TOOLS		5175646 LIGHTING SUPPLIES		108.72	18
ALLIED IRON CO., INC.	22396		2,049.53		
MACHINERY AND EQUIP MAINT MATE		132246 QTY 1 3/8"SS304 PLATE		2,049.53	18
ALPHA ANALYTICAL LABORATORIES	22397		865.00		
CONTRACT SERV. (NON-MAINT.)		7121944RPSVCW PLANT PERMIT LAB ANALYSIS		70.00	18
		7122836RPSVCW PLANT PERMIT LAB ANALYSIS		255.00	18
		7123016RPSVCW PLANT PERMIT LAB ANALYSIS		70.00	18
		7123017RPSVCW PLANT PERMIT LAB ANALYSIS		70.00	18
		7123113RPSVCW PLANT PERMIT LAB ANALYSIS		330.00	18
		8011432RPSVCW PLANT PERMIT LAB ANALYSIS		70.00	18
AMERICAN SOCIETY OF SAFETY ENG	22398		185.00		
MEMB. & MEET.		1001433939 MEMBERSHIP DUES-DAVID LEE		185.00	18
APEX LIFE SCIENCES, LLC	22399		2,878.76		
CONTRACT SERV. (NON-MAINT.)		LAB550393386 W/E 12/16/17 LAB TEMPORARY STAFF WORKER -		1,439.38	18
		LAB550395309 W/E 12/23/17 LAB TEMPORARY STAFF WORKER -		1,439.38	18
ARIZONA INSTRUMENT LLC	22400		1,025.00		
MACH & EQUIP MAINT SERVICES		331990 2/9/18-2/8/19 EXTENDED WARRANTY FOR X631		1,025.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
ASBURY ENVIRONMENTAL SERVICES	22401		120.00		
CONTRACT SERV. (NON-MAINT.)		150000277839 USED OIL SERVICE CHARGE		120.00	18
BAY ALARM COMPANY	22402		279.51		
CONTRACT SERV. (NON-MAINT.)		14617032 1/1/18-4/1/18 BURGLAR MONITORING FEE		279.51	18
BUCKLES SMITH ELECTRIC COMPANY	22403		1,854.67		
MISCELLANEOUS		306233101 VARIOUS ELECTRICAL PARTS		968.97	18
MACHINERY AND EQUIP MAINT MATE		306770700 VARIOUS ELECTRICAL PARTS		834.53	18
		306770700 VARIOUS ELECTRICAL PARTS		51.17	18
BUENROSTRO, DANIEL	22404		3,000.00		
MISCELLANEOUS		1122018 COMPUTER LOAN PER ADMIN POLICY#1987-03, EE TOO		3,000.00	18
C H BULL COMPANY	22405		375.77		
MACHINERY AND EQUIP MAINT MATE		1197591 QTY 1 BAUER 12 FT FIBERGLASS VAULT LADDER		345.77	18
		1197591 QTY 1 BAUER 12 FT FIBERGLASS VAULT LADDER		30.00	18
CA ST-BOARD OF EQUALIZATION	22406		2,719.00		
MISCELLANEOUS		1122018 10/17-12/17 SALES TAX ACCRUAL 19-751218		1,876.88	14
MISCELLANEOUS		1122018 10/17-12/17 SALES TAX ACCRUAL 19-751218		842.45	18
		1122018 10/17-12/17 SALES TAX ACCRUAL 19-751218		-0.33	18
CA ST-BOARD OF EQUALIZATION	22407		143.70		
ADMINISTRATIVE EXPENSES		1122018 2017 UNDERGROUND STORAGE TANK MNTC TAX#44-0253		143.70	18
CA ST-FRANCHISE TAX BOARD	22408		8,920.80		
MISCELLANEOUS		1122018 9/17-12/17 FORM 592V NONRESIDENT WITHHOLDING		8,920.80	20
CAL-OSHA REPORTER	22409		395.00		
MEMB. & MEET.		474672 RENEWAL SUBSCRIPTION 1-2 SAFETY PROS		395.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CALPERS - FISCAL SERVICES DIVI	22410		35,000.00		
RETIREE MEDICAL PAYMENTS		1122018 1/18 PREFUNDING OPEB		35,000.00	12
CALTEST ANALYTICAL LABORATORY	22411		894.60		
CONTRACT SERV. (NON-MAINT.)		580289 NUTRIENT PERMIT LAB ANALYSIS		58.50	18
		580690 NPDES PERMIT LAB ANALYSIS		836.10	18
CALTROL, INC.	22412		2,448.67		
MACHINERY AND EQUIP MAINT MATE		CD99035260 QTY 5 120/60 VAC		487.20	18
MISCELLANEOUS		CD99035260 QTY 5 120/60 VAC		1,961.47	18
CDW GOVERNMENT, INC.	22413		358.93		
MACHINERY AND EQUIP MAINT MATE		LCN1402 QTY 1 APC REPLACEMENT BATTERY		358.93	18
CINTAS CORPORATION NO. 3	22414		2,708.48		
SUPPLIES		464839470 12/26/17 LAUNDRY SERVICE		885.98	18
		464842305 1/2/18 LAUNDRY SERVICE		929.25	18
		464845168 1/9/18 LAUNDRY SERVICE		893.25	18
CLIPPER CONTROLS INC	22415		5,354.71		
MACH & EQUIP MAINT SERVICES		11047 TELEDYNE ISCO SERVICE		1,980.00	18
		11048 TELEDYNE ISCO SERVICE LABOR AND PARTS		1,246.70	18
		11048 TELEDYNE ISCO SERVICE LABOR AND PARTS		1,136.44	18
		11048 TELEDYNE ISCO SERVICE LABOR AND PARTS		190.79	18
		11048 TELEDYNE ISCO SERVICE LABOR AND PARTS		487.52	18
		11048 TELEDYNE ISCO SERVICE LABOR AND PARTS		313.26	18
COGSDALE CORPORATION	22416		2,089.17		
CONST.-ADMIN. & LEGAL		XT0002308 12/3-12/5/17 ONSITE VISIT SINGH SATYENDRAKUM		2,089.17	20
CONSOLIDATED PARTS INC.	22417		2,391.24		
MACHINERY AND EQUIP MAINT MATE		5044050 QTY 1 ADJ FRQ DRV FAN		2,391.24	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
COUNTY OF SAN MATEO - AIRPORT CONST.-ADMIN. & LEGAL	22418	1122018 2/18 PERMIT#5384-LEASE PMT SAN CARLOS AIRPORT	97,300.00	97,300.00	20
CREATIVE WINDOW INTERIORS INC CONST.-ADMIN. & LEGAL	22419	9988 LABOR ONLY INSTALLATION OF 3 LEVOLOR MARK 1 ALUMI	848.00	848.00	20
CYCLOTRON INC PROFESSIONAL SERVICES	22420	2007 SOFTWARE SUPPORT SERVICE -INFRA T&M 2013 SOFTWARE SUPPORT SERVICE - 1/1/18-6/30/17 2014 SOFTWARE SUPPORT SERVICE - COGSDALE DOMAIN DNS AZ	19,000.00	1,600.00 10,000.00 7,400.00	18 18 18
DELL MARKETING L.P. SUPPLIES	22421	10214102035 QTY 10 DELL 24" MONITORS, QTY 2 ETHERNET A 10214102035 QTY 10 DELL 24" MONITORS, QTY 2 ETHERNET A 10214102035 QTY 10 DELL 24" MONITORS, QTY 2 ETHERNET A 10214102035 QTY 10 DELL 24" MONITORS, QTY 2 ETHERNET A	2,392.05	2,001.67 60.88 65.25 264.25	18 18 18 18
DNS STRATEGIC PARTNERS, LLC CONSTRUCTION-DESIGN	22422	1720015 12/17 T.O.2017-01 PROF CONSULTING SVCS - VARIO	22,300.00	22,300.00	20
EDGLEY, KIP D. CONSTRUCTION-CONTRACTOR MISCELLANEOUS	22423	12041703 11/6-12/3/17 SERVICES INSIDE CA 12041703B 11/6-12/3/17 SERVICES OUTSIDE CA 12041703C REIM-11/6-12/3/17 TRAVEL EXPENSE 12041703D 7% NONRESIDENT WITHHOLDING	16,006.58	9,207.00 3,510.00 3,934.07 -644.49	20 20 20 20
ENVIRONMENTAL RESOURCE ASSOCIA SUPPLIES	22424	849388 LAB SUPPLIES, CHEMICALS	890.55	890.55	18
ERS INDUSTRIAL SERVICES, INC. CONSTRUCTION-CONTRACTOR CAPITAL	22425	AN1 10/1-10/15/17 RAS PUMP REPAIR 171030 10/1/17 W.O. 113750 DMF INSTRUMENTATION & CONTR	30,136.87	1,376.79 28,760.08	20 14

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
FASTENAL COMPANY	22426		3,794.74		
MACHINERY AND EQUIP MAINT MATE		CASAA56509 VENDOR MANAGED RESTOCK		272.02	18
		CASAA56509 VENDOR MANAGED RESTOCK		37.31	18
SUPPLIES		CASAA56510 VENDOR MANAGED RESTOCK		1,187.32	18
		CASAA56548 VENDOR MANAGED RESTOCK		1,281.34	18
SMALL TOOLS		CASAA56635 VENDOR MANAGED RESTOCK		35.72	18
MACHINERY AND EQUIP MAINT MATE		CASAA56636 VENDOR MANAGED RESTOCK		81.11	18
SUPPLIES		CASAA56637 VENDOR MANAGED RESTOCK		899.92	18
FED EX	22427		329.99		
ADMINISTRATIVE EXPENSES		164520846 12/22/17 FED EX CHARGES		70.58	18
SUPPLIES		602652455 11/9-12/4/17 FED EX CHARGES		13.75	18
TRAINING		602652455 11/9-12/4/17 FED EX CHARGES		25.19	18
SUPPLIES		602652455 11/9-12/4/17 FED EX CHARGES		24.88	18
CONSTRUCTION-CONTRACTOR		602652455 11/9-12/4/17 FED EX CHARGES		30.15	20
		602652455 11/9-12/4/17 FED EX CHARGES		15.25	20
SUPPLIES		602652455 11/9-12/4/17 FED EX CHARGES		45.24	18
		602652455 11/9-12/4/17 FED EX CHARGES		62.97	18
		602652455 11/9-12/4/17 FED EX CHARGES		41.98	18
FERGUSON ENTERPRISES INC	22428		4,708.34		
MISCELLANEOUS		5724737 QTY 2 4" 3 WAY MIXING VALVE		4,708.34	18
FINTA ENTERPRISES, INC	22429		1,060.56		
CONTRACT SERV. (NON-MAINT.)		55343 11/23/17 GRIT HAULING		1,022.50	18
		55343 11/23/17 GRIT HAULING		38.06	18
FISHER SCIENTIFIC COMPANY, LLC	22430		64.79		
SUPPLIES		4716471 LAB SUPPLIES		39.75	18
		4716471 LAB SUPPLIES		25.04	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
FOURNIER INDUSTRIES, INC.	22431		5,965.50		
MISCELLANEOUS		L133342 FOURNIER ROTARY PRESS PARTS		2,936.25	18
		L133342 FOURNIER ROTARY PRESS PARTS		2,936.25	18
MACHINERY AND EQUIP MAINT MATE		L133342 FOURNIER ROTARY PRESS PARTS		93.00	18
FRANK A. OLSEN CO.	22432		28,958.49		
CONSTRUCTION-CONTRACTOR		4POM10816 5/22-11/10/17 PRG PMT#4 PUMP STATION VALVE P		14,479.24	14
		4POM10816 5/22-11/10/17 PRG PMT#4 PUMP STATION VALVE P		14,479.25	14
GRAINGER	22433		6,734.89		
MACHINERY AND EQUIP MAINT MATE		9640066545 RESTOCK ITEMS		195.47	18
		9640521903 RESTOCK ITEMS		113.16	18
SMALL TOOLS		9641131348 RESTOCK ITEMS		236.32	18
MACHINERY AND EQUIP MAINT MATE		9641230421 RESTOCK ITEMS		46.30	18
		9641903142 RESTOCK ITEMS		30.53	18
MISCELLANEOUS		9643396956 RESTOCK ITEMS		24.66	18
		9643396956 RESTOCK ITEMS		1,000.28	18
		9643396956 RESTOCK ITEMS		37.15	18
		9643396956 RESTOCK ITEMS		14.06	18
MACHINERY AND EQUIP MAINT MATE		9643396956 RESTOCK ITEMS		126.19	18
MISCELLANEOUS		9643396956 RESTOCK ITEMS		630.97	18
MACHINERY AND EQUIP MAINT MATE		9644187396 RESTOCK ITEMS		355.62	18
SUPPLIES		9645742082 RESTOCK ITEMS		43.13	18
MACHINERY AND EQUIP MAINT MATE		9645742082 RESTOCK ITEMS		508.12	18
MISCELLANEOUS		9645742082 RESTOCK ITEMS		116.19	18
MACHINERY AND EQUIP MAINT MATE		9648817295 RESTOCK ITEMS		1,165.37	18
		9648817295 RESTOCK ITEMS		906.11	18
		9648817295 RESTOCK ITEMS		471.98	18
		9649088284 RESTOCK ITEMS		595.08	18
		9650828198 RESTOCK ITEMS		19.13	18
		9653027509 RESTOCK ITEMS		55.32	18
SMALL TOOLS		9654469213 RESTOCK ITEMS		43.75	18

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HARRINGTON INDUST PLASTICS	22434		1,721.68		
MACHINERY AND EQUIP MAINT MATE		3L6619 PLUMBING SUPPLIES		241.26	18
		3L6620 PLUMBING SUPPLIES		293.63	18
		3L6620 PLUMBING SUPPLIES		1,186.79	18
HILLYARD INC	22435		1,442.97		
SUPPLIES		602808211 JANITOR SUPPLIES		31.05	18
MISCELLANEOUS		602808211 JANITOR SUPPLIES		71.91	18
		602808211 JANITOR SUPPLIES		64.79	18
		602808211 JANITOR SUPPLIES		231.12	18
		602808211 JANITOR SUPPLIES		149.98	18
		602808211 JANITOR SUPPLIES		48.29	18
		602808211 JANITOR SUPPLIES		152.52	18
		602808211 JANITOR SUPPLIES		103.53	18
		602808211 JANITOR SUPPLIES		158.69	18
		602808211 JANITOR SUPPLIES		80.30	18
SUPPLIES		602808211 JANITOR SUPPLIES		29.95	18
MISCELLANEOUS		602820324 JANITOR SUPPLIES		164.02	18
		602820324 JANITOR SUPPLIES		79.12	18
SUPPLIES		602820324 JANITOR SUPPLIES		7.76	18
MISCELLANEOUS		602822246 JANITOR SUPPLIES		69.94	18
HILTI, INC.	22436		45.06		
MACHINERY AND EQUIP MAINT MATE		4610799028 VARIOUS NUTS & BOLTS		45.06	18
INTERACTIVE HEALTH BENEFITS	22437		168.00		
PROFESSIONAL SERVICES		13107 2017 1095C/1094C PRINTING & MAILING		168.00	18
J.F. SHEA/PARSONS, A JOINT VEN	22438		785,340.00		
CONST.-ADMIN. & LEGAL		1POM10913 12/21-12/31/17 PRG PMT#1 FRONT OF PLANT - ST		261,780.00	20
		1POM10913 12/21-12/31/17 PRG PMT#1 FRONT OF PLANT - ST		261,780.00	20
		1POM10913 12/21-12/31/17 PRG PMT#1 FRONT OF PLANT - ST		261,780.00	20

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JENTECH SERVICES	22439		5,985.60		
MACH & EQUIP MAINT SERVICES		2245 12/22/17-1/4/18 INSTRUMENTATION AND ELECTRICAL SE		3,672.00	18
		2245 12/22/17-1/4/18 INSTRUMENTATION AND ELECTRICAL SE		612.00	18
		2245 12/22/17-1/4/18 INSTRUMENTATION AND ELECTRICAL SE		1,701.60	18
KELLER CANYON LANDFILL CO.	22440		1,430.38		
CONTRACT SERV. (NON-MAINT.)		4212000026545 11/23/17 SEWER GRIT SCR N DRYING BED HAUL		719.20	18
		4212000026585 12/06/17 SEWER GRIT SCR N DRYING BED HAUL		711.18	18
KEN GRADY COMPANY, INC	22441		2,384.34		
SUPPLIES		1818A QTY 4 A10-66 GAS PHASE SULFITE SENSOR		1,386.42	18
MACHINERY AND EQUIP MAINT MATE		1844A QTY 2 CHEM MODULE SAMPLE PUMP ASSEMBLY		997.92	18
KENNEDY/JENKS CONSULTANTS, INC	22442		18,065.95		
CONTRUCTION-DESIGN		117385 THRU 10/27/17 T.O.2016-11 GRAV PIPELINE-PRG DSG		18,065.95	20
LEIGHTON STONE CORPORATION	22443		581.09		
MISCELLANEOUS		1169740 QTY 4 EACH WIKI AND ASHCROFT MINI SEAL		581.09	18
MADCO WELDING SUPPLY CO	22444		248.42		
RENTAL/LEASES		G52884 12/18/17 COMPRESSED GASES		248.42	18
MENLO PARK, CITY OF	22445		185.91		
UTILITIES		1227201735494 11/20-12/20/17 MPPS WATER SERVICE		185.91	18
METRO MOBILE COMMUNICATIONS	22446		192.63		
MACH & EQUIP MAINT SERVICES		54514 SERVICE AND PARTS FOR SPEAKER AND ANTENNA		32.63	18
		54514 SERVICE AND PARTS FOR SPEAKER AND ANTENNA		150.00	18
		54514 SERVICE AND PARTS FOR SPEAKER AND ANTENNA		10.00	18
MID-PENINSULA WATER DISTRICT	22447		737.26		
UTILITIES		1231201762000 12/1-12/31/17 BLPS WATER SERVICE		737.26	18

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MUNIQUEIP INC	22448		4,253.10		
MACHINERY AND EQUIP MAINT MATE		104007 QTY 1 REPLACEMENT PUMP		4,253.10	18
MURPHY, NATHAN	22449		42.92		
CONSTRUCTION-CONSTRUCTION MGMT		1122018 REIM-1/3-1/5/18 TRAVEL EXPENSE - RDT FACTORY W		42.92	20
NATIONAL SAFETY COUNCIL	22450		450.00		
MEMB. & MEET.		11272017976475 MEMBERSHIP RENEWAL		450.00	18
OFFICE DEPOT	22451		3,736.87		
SUPPLIES		987586083001 OFFICE SUPPLIES		1,070.33	18
		989145033001 OFFICE SUPPLIES		1,359.12	18
		989162979001 OFFICE SUPPLIES		5.38	18
		989162984001 OFFICE SUPPLIES		13.03	18
		989162985001 OFFICE SUPPLIES		26.42	18
		989901300001 OFFICE SUPPLIES		117.44	18
OFFICE SUPPLIES		991162209001 OFFICE SUPPLIES		242.32	18
		992524879001 OFFICE SUPPLIES		127.74	18
SUPPLIES		992851103001 OFFICE SUPPLIES		540.22	18
		992851324001 OFFICE SUPPLIES		200.08	18
OFFICE SUPPLIES		992851325001 OFFICE SUPPLIES		34.79	18
OGASAWARA LANDSCAPE MAINTENANC	22452		2,050.00		
CONTRACT SERV. (NON-MAINT.)		24560 12/17 LANDSCAPING SERVICE		2,050.00	18
OTIS ELEVATOR COMPANY	22453		5,138.49		
MACH & EQUIP MAINT SERVICES		SJ04029118 1/1/18-3/31/18 SERVICE CONTRACT CHARGES		5,138.49	18

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PACIFIC GAS AND ELECTRIC COMPA UTILITIES	22454		19,910.60		
		76946862 11/17 DEPARTING LOAD		8,212.70	18
		102201843834 11/22-12/22/17 RCPS ELECTRIC		6,675.90	18
		1228201726195 11/21-12/21/17 MPPS ELECTRIC		4,991.13	18
		1229201703894 11/22-12/22/17 RCPS (LYNGSO) ELECTRIC		30.87	18
PADUA, BENJAMIN V. SUPPLIES	22455		260.00		
		1122018 REIM-12/28/17 SAFETY SHOES		260.00	18
PAN-PACIFIC SUPPLY CO. MACH & EQUIP MAINT SERVICES	22456		28,657.12		
		29597788 LABOR & PARTS INPELLER		11,775.17	18
		29597788 LABOR & PARTS INPELLER		3,200.00	18
		29597789 LABOR AND PARTS REBUILD WEMCO		10,281.95	18
		29597789 LABOR AND PARTS REBUILD WEMCO		3,400.00	18
PERKINELMER HEALTH SCIENCES IN SUPPLIES	22457		844.50		
		5303986425 QTY 1 TWINNABAR SPRAY CHAMBER WITH HELIX		826.50	18
		5303986425 QTY 1 TWINNABAR SPRAY CHAMBER WITH HELIX		18.00	18

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PETTY CASH - SILICON VALLEY CL	22458		596.88		
MEMB. & MEET.		1122018 PETTY CASH DISBURSEMENTS		81.05	18
SUPPLIES		1122018 PETTY CASH DISBURSEMENTS		11.50	18
		1122018 PETTY CASH DISBURSEMENTS		136.86	18
		1122018 PETTY CASH DISBURSEMENTS		2.71	18
OFFICE SUPPLIES		1122018 PETTY CASH DISBURSEMENTS		32.61	18
SUPPLIES		1122018 PETTY CASH DISBURSEMENTS		40.00	18
SMALL TOOLS		1122018 PETTY CASH DISBURSEMENTS		28.75	18
TRAINING		1122018 PETTY CASH DISBURSEMENTS		40.45	18
MACHINERY AND EQUIP MAINT MATE		1122018 PETTY CASH DISBURSEMENTS		1.14	18
SUPPLIES		1122018 PETTY CASH DISBURSEMENTS		14.59	18
MEMB. & MEET.		1122018 PETTY CASH DISBURSEMENTS		37.89	18
CONST.-ADMIN. & LEGAL		1122018 PETTY CASH DISBURSEMENTS		147.62	20
TRAINING		1122018 PETTY CASH DISBURSEMENTS		21.71	18
POLITZER, KRISTA	22459		386.53		
CONST.-ADMIN. & LEGAL		1122018 REIM-1/9/18 MEAL EXPENSES - BOND RATING MEETIN		386.53	20
PRE EMPLOYMENT, INC.	22460		94.50		
PROFESSIONAL SERVICES		32734 BACKGROUND CHECK- ROBERT ISHAYA		94.50	18
PSC INDUSTRIAL OUTSOURCING, LP	22461		34,557.64		
CONTRACT SERV. (NON-MAINT.)		1311193043 10/2017 RCPS MAPLE WET WELL CLEANING		14,800.57	18
		1311193044 11/2017 RCPS MAPLE WET WELL CLEANING		19,757.07	18
QPCS LLC	22462		37,320.20		
SUPPLIES		14925 VIDEO WALL SOFTWARE SUPPORT CONTRACT		30,442.36	18
SMALL TOOLS		14926/14927 12/19/17 ON SITE TECHNICAL SUPPORT CAMERA		450.00	18
		14926/14927 12/19/17 ON SITE TECHNICAL SUPPORT CAMERA		5,677.84	18
		14926/14927 12/19/17 ON SITE TECHNICAL SUPPORT CAMERA		750.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
R & B COMPANY	22463		1,534.89		
MACHINERY AND EQUIP MAINT MATE		S1701189001 PLUMBING SUPPLIES		22.83	18
		S1701189001 PLUMBING SUPPLIES		1,044.77	18
		S1702748001 PLUMBING SUPPLIES		361.58	18
CONST.-ADMIN. & LEGAL		S1707176001 PLUMBING SUPPLIES		52.85	20
		S1707176001 PLUMBING SUPPLIES		52.86	20
R & L CARRIERS, INC	22464		103.62		
MACHINERY AND EQUIP MAINT MATE		I825821352 S&H CHARGE FOR INV#CA24-021439 AP 1/12/18 P		103.62	18
R & S ERECTION NORTH PENINSULA	22465		465.00		
MACHINERY AND EQUIP MAINT MATE		44262 12/18/17 REPAIR PAIR OF GLASS ALUMINUM DOORS		465.00	18
R.E.P. NUT N BOLT GUY	22466		497.53		
SUPPLIES		28556 VARIOUS NUTS & BOLTS		497.53	18
RED WING SHOE STORE	22467		907.90		
SUPPLIES		152127648 12/15/17 SAFETY SHOES - SAN FILIPPO, JOHN		205.50	18
		152127652 12/15/17 SAFETY SHOES - SWALVE, WILLIAM		247.36	18
		152127962 12/20/17 SAFETY SHOES - POLITZER, KRISTA		202.79	18
		152128317 12/28/17 SAFETY SHOES - CASTELL, LUKE		252.25	18
REDWOOD CITY, CITY OF - WATER	22468		5,079.91		
UTILITIES		1222201732690 10/22-12/22/17 GREENDALE WATER SERVICE		620.64	18
		1228201706774 11/28-12/28/17 RCPS WATER SERVICE		54.66	18
		1228201719903 11/28-12/28/17 1406 WATER/SEWER/GARBAGE		238.83	18
		1228201719929 11/28-12/28/17 1406 FIRE SERVICE		96.00	18
		1228201786984 11/28-12/28/17 PLANT WATER/GARBAGE		4,069.78	18
RKI INSTRUMENTS INC.	22469		3,595.27		
MACHINERY AND EQUIP MAINT MATE		338846 QTY 1 BEACON 410A CONTROLLER, QTY 1 J-BOX W/DET		1,305.00	18
		338846 QTY 1 BEACON 410A CONTROLLER, QTY 1 J-BOX W/DET		2,290.27	18

12/30/17-1/12/18

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SILICON VALLEY CLEAN WATER
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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
SAFETY COMPLIANCE MANAGEMENT I TRAINING	22470	8623 12/6/17 TRAINING - FORKLIFT OPERATIONS	795.00	795.00	18
SAN MATEO COUNTY ENVIRONMENTAL ADMINISTRATIVE EXPENSES	22471	300461 MPPS CUPA OVERSIGHT/STORES HAZ MAT 300461 MPPS CUPA OVERSIGHT/STORES HAZ MAT 300505 RCPS CUPA OVERSITE/STORES HAZ MAT 300505 RCPS CUPA OVERSITE/STORES HAZ MAT	1,830.00	49.00 693.00 1,039.00 49.00	18 18 18 18
SANDUL, DUANE PROFESSIONAL SERVICES	22472	12SVCW2017 12/2017 PROFESSIONAL SERVICES	1,700.00	1,700.00	18
SILICON VALLEY CLEAN WATER (EE SUPPLIES	22473	1122018 2/18 COMPENSATION - EMPLOYEE ANNIVERSARY 1122018B 1/18 COMPENSATION - EMPLOYEE ANNIVERSARY	375.00	250.00 125.00	18 18
SWRCB FEES - ST WATER RESOURCE ADMINISTRATIVE EXPENSES	22474	WD0126575 7/1/17-6/30/18 ANNUAL PERMIT FEE WD0126575 7/1/17-6/30/18 ANNUAL PERMIT FEE WD0130923 7/1/17-6/30/18 ANNUAL PERMIT FEE	128,991.00	107,796.00 10,000.00 11,195.00	18 18 18
TANNER PACIFIC, INC. CONTRUCTION-DESIGN CONSTRUCTION-CONSTRUCTION MGMT CONST.-ADMIN. & LEGAL	22475	218001 12/17-12/30/17 T.O.2017-07 CONSTRUCTION MGMT-VA 218002 12/17-12/30/17 T.O.2017-08 GRAVITY PIPELINE 218003 12/17-12/30/17 T.O.2017-10 FOP-STAGE1,QA & P6 I 218003 12/17-12/30/17 T.O.2017-10 FOP-STAGE1,QA & P6 I 218003 12/17-12/30/17 T.O.2017-10 FOP-STAGE1,QA & P6 I	154,135.11	112,929.11 7,150.00 11,352.00 11,352.00 11,352.00	20 20 20 20 20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
THATCHER COMPANY OF CALIFORNIA CHEMICAL SUPPLIES	22476		43,943.20		
		246594 11/8/17 45020 LB TRIOXYN		7,882.44	18
		246670 11/11/17 44540 LB TRIOXYN		7,798.40	18
		246733 11/22/17 44500 LB TRIOXYN		7,791.39	18
		246843 12/1/17 42760 LB TRIOXYN		7,486.74	18
		247081 12/21/17 44820 LB TRIOXYN		7,847.42	18
		247194 12/28/17 3653 LB FERRIC CHLORIDE		5,136.81	18
U.S. HEALTHWORKS MEDICAL GROUP PROFESSIONAL SERVICES	22477		228.00		
		3243635CA 12/5/17 PRE-EMPLOYMENT PHYSICAL - R ISHAYA		228.00	18
UNIVAR USA INC. CHEMICAL SUPPLIES	22478		3,788.67		
		SJ856314 12/24/17 3060 GAL SOD HYPO		1,623.95	18
		SJ856588 12/29/17 4079 GAL SOD HYPO		2,164.72	18
US POSTAL SERVICE (POSTAGE-BY- OFFICE SUPPLIES	22479		350.00		
		1122018 POSTAGE REFILL-A/C 18400358		350.00	18
VALLEY OIL COMPANY SUPPLIES MISCELLANEOUS	22480		1,876.24		
		41623 FOOD MACHINE OIL 460 DRUM		40.00	18
		41623 FOOD MACHINE OIL 460 DRUM		1,836.24	18
VALLEY OIL COMPANY (VEHICLE FU SUPPLIES	22481		468.37		
		487085 11/15-11/30/17 FUEL CHARGES		468.37	18
VERIZON WIRELESS UTILITIES	22482		2,001.17		
		9798375955 11/20-12/19/17 VERIZON SERVICE		1,915.13	18
		9798375956 11/20-12/19/17 VERIZON SERVICE		76.02	18
		9798685764 11/24-12/23 VERIZON SERVICE		10.02	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
VWR INTERNATIONAL, LLC	22483		154.53		
SUPPLIES		8080858223 LAB SUPPLIES		148.40	18
		8080858223 LAB SUPPLIES		6.13	18
WANDRO, ROBERT	22484		166.04		
UTILITIES		1122018 REIM-11/18-12/17/17 CELL PHONE EXPENSE		45.00	18
TRAINING		1122018B REIM-12/14/17 MEAL EXPENSE - LAB TRAINING 8 E		121.04	18
WATSON-MARLOW INC	22485		8,205.41		
MACHINERY AND EQUIP MAINT MATE		SI055356 QTY 1 IPP66 PUMP, QTY 1 LEAK DETECTOR, QTY 15		7,267.44	18
		SI055356 QTY 1 IPP66 PUMP, QTY 1 LEAK DETECTOR, QTY 15		386.61	18
		SI055356 QTY 1 IPP66 PUMP, QTY 1 LEAK DETECTOR, QTY 15		551.36	18
WESTERN ENERGY SYSTEMS	22486		14,157.36		
MACH & EQUIP MAINT SERVICES		3825472 11/17 LTSA SERVICE AGREEMENT UNIT 1		7,059.60	18
		3825473 11/17 LTSA SERVICE AGREEMENT UNIT 2		7,097.76	18
WESTERN STATES OIL	22487		5,814.16		
SUPPLIES		311235 QTY 330 SHELL MYSELLA S3 N 40W		5,814.16	18
WESTERN WEATHER GROUP INC	22488		1,282.00		
MACH & EQUIP MAINT SERVICES		15279 2018 ANNUAL WEATHER UNDERGROUND DATA UPLOAD		60.00	18
		15295 12/12/17 QUARTERLY AUDIT METEOROLOGICAL STATION		1,222.00	18
WESTIN TECHNOLOGY SOLUTIONS, L	22489		450.00		
PROFESSIONAL SERVICES		10071 12/1-12/31/17 PROFESSIONAL SERVICES		450.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
XEROX CORPORATION	22490		3,160.24		
RENTAL/LEASES		91604847 12/17 XEROX LEASE		302.38	18
		91815847 1/18 XEROX LEASE		462.46	18
		91815848 1/18 XEROX LEASE		261.43	18
		91815849 1/18 XEROX LEASE		291.76	18
		91815850 1/18 XEROX LEASE		355.67	18
		91815851 1/18 XEROX LEASE		1,080.67	18
		91815852 1/18 XEROX LEASE		405.87	18
		TOTAL	\$1,661,581.96		

TERMINATE DECLARATION OF EMERGENCY FOR NETWORK EQUIPMENT FAILURE

ISSUE

Update on Activities in Response to September 2015 Declaration of Emergency and Termination of Emergency Condition.

BACKGROUND

On September 16, 2015, SVCW Information Systems (IS) Division staff became aware of a failure of the Uninterruptable Power Supply (UPS) units that provide backup power to all information network hardware. As investigations into the matter ensued, it was discovered that the Storage Array (a Storage Area Network device which consolidates network data with high-speed interconnection to servers and end user applications) and several of the servers providing SCADA and IT services were also damaged. The Manager declared an emergency condition to essential facilities while staff and consultants worked diligently to remedy the issues. A temporary resolution, enough to get SCADA and IT systems back into service, was finalized a week later, on Wednesday, September 23.

On October 8, 2015, the Commission ratified the Manager's Declaration of Emergency Condition and authorized the repair of the essential facilities. At that meeting, the Commission authorized the purchase of a new Storage Array in the amount of \$101,101.86. The Commission also approved the additional expenditure of up to \$300,000 for purchase and installation of UPS units which were damaged beyond repair. At the time, it was noted that total permanent repair costs remained unknown but were expected to be between \$0.5 million and \$1.0 million more.

After significant troubleshooting of the matter, two items were identified that required correction. First significant amounts of corrosion on the UPS, the storage array, and the servers was discovered and likely caused the initial failure. Second was the fact that there was only one electrical feed from the UPS to the storage array and servers. This results in the shutdown of the entire system when the UPS fails and is contrary to the normal practice of having at least two sources of power to the storage array and associated servers.

After intense investigations, many meetings and consultation with specialists in data center configurations, SVCW staff developed a plan for resolving the issues noted above and preventing future failures of the IS system. The plan consisted of the following:

1. Purchase and install a new Nimble Storage Array.
2. Purchase and install two redundant UPS units fed from two independent power supplies.
3. Modify the HVAC system to the Control Building, changing the location of the air intake to a less corrosive area of the plant and adding scrubber capacity.

Item 1 was completed shortly after the emergency was declared.

Item 2 was completed in December 2016. Two UPS units were purchased in July 2016, for a total purchase price of \$117,205 and installed by DW Nicholson, for a total contract price of \$112,596.

Item 3 has been addressed, however, additional work will be required to complete the building HVAC work as discussed below.

DISCUSSION

In September 2016, the Commission authorized budget and scope to complete HVAC modifications to fully address the corrosion issues in the Administration/Control Building by redesigning the deficient HVAC system. At that time, \$1,000,000 was added to the emergency authorization. CDM Smith was hired and began preparation of the design to do the following:

- Relocate the air intake to the Control Building roof.
- Evaluate and possibly upsize the building's air intake blower system.
- Evaluate and adjust HVAC balancing and operating parameters to assure adequate building ventilation and pressurization following the air intake modifications.
- Evaluate and possible redesign of the building's air scrubber system. It was anticipated that the existing scrubber system was sized appropriately for the building; however, a redesign may be necessary should the aforementioned corrective measures not achieve the desired operational conditions.
- Evaluate improvements to the fire suppression equipment in the Control Building Server Room to assure adequate protection of the new relocated UPS equipment.
- Addition of independent positive pressurization fans to the two building elevator shafts to eliminate latent pockets of corrosive hydrogen sulfide gas affecting sensitive elevator electrical equipment.

While CDM was developing design details, interim steps were taken to improve the air quality in the server room. The most significant interim step was to install a dedicated temporary air scrubbing unit in the server room to protect that equipment. Based on recommendations of consultants, SVCW installed a Purafil® scrubber unit. During installation of the unit, it was discovered that there were holes in the server room floor that allowed outside air with high H₂S levels to penetrate the room. The holes were covered at the same time the Purafil® unit was installed. This work was completed in April 2017. At the time, it was considered an interim solution that would improve the air quality in the room temporarily while the rest of the improvements were completed.

CDM has completed the design for the improvements to the building HVAC system. In the meantime, the interim solution of adding a Purafil® scrubber to the server room and covering the holes in the floor has significantly reduced the H₂S levels in the server room. It is apparent that these interim fixes, along with the other two permanent fixes

noted above in the Background section of this report have removed the condition that caused the initial failure of the IT equipment. On this basis, it is recommended that the emergency condition be removed.

At the same time, staff recommends that overall control building HVAC deficiencies continue to be addressed and ultimately resolved. At a future Commission meeting, staff will present a construction project to complete these improvements for Commission consideration and approval.

FINANCIAL IMPACT

In total, the Commission authorized \$1,401,101.86 in emergency funds. Since the emergency was declared, \$629,351.72 has been spent or encumbered to address the damaged equipment, improve the system's redundancy, and address air quality.

RECOMMENDATION

Move adoption of RESOLUTION TERMINATING THE SUSPENSION OF COMPETITIVE BIDDING REQUIREMENTS CONFERRED BY RESOLUTION NO. 15-39 AND THE CORRESPONDING MANAGER AUTHORITY (INFORMATION NETWORK REPAIRS) (4/5ths weighted vote count required)

**MENLO PARK PUMP STATION VALVE REPLACEMENT
(CAPITAL PROJECT #262)
REDWOOD CITY PUMP STATION VALVE REPLACEMENT
(CAPITAL PROJECT #263)
VALVE PROCUREMENT AND INSTALLATION
FINAL PROJECT ACCEPTANCE**

ISSUE

Final Acceptance of Pump Station Valve Procurement and Replacement Projects at Menlo Park and Redwood City Pump Stations and Authorization to File Notice of Completion.

BACKGROUND

Replacement of the entire SVCW conveyance system, including the pump stations, is a critical component of SVCW's Capital Improvement Program. In April 2017, the SVCW Commission certified the Final Environmental Impact Report for the Wastewater Conveyance System and Treatment Plant Reliability Improvement Project (RESCU Program); the RESCU Program includes the rehabilitation, repurposing or replacement of the four SVCW pump stations.

According to the current RESCU Program schedule, the last segment of the conveyance system will be operational in 2024. Therefore, all the existing pump stations need to continue to operate up to seven years while the new conveyance system is in construction. SVCW's Maintenance Division performed an assessment of the pump stations to define maintenance work required to keep the pump stations in operation for this time. They identified that most of the major valves at the pump stations are well beyond their useful lives and that failure of these valves will result in catastrophic impacts and potential spills of untreated wastewater.

DISCUSSION

During the pump station assessment, the design team and SVCW staff identified 31 valves, ranging in size from 16-inch to 18-inch, that required replacement at the Menlo Park and Redwood City Pump Stations. Additionally, 10 expansion joints needed to be replaced. Staff recommended the valves be pre-purchased due to the lengthy lead time to manufacture the valves. The procurement bid documents were publicly advertised on December 8, 2016. Two bids were received on January 3, 2017, and the apparent low bidder was All West Equipment, dba Frank Olsen Company, in the amount of \$391,993.63. At the January 2017 meeting, the Commission approved purchase of the valves and expansion joints from Frank Olsen Company.

Design for the valve installation contract was completed by the firm of Freyer & Laureta. The construction contract was publicly advertised for bidding on April 13, 2017. Bids were received on April 28 and D.W. Nicholson was the low bidder at \$514,000.00. The Commission awarded the installation contract to D.W. Nicholson on May 11, 2017.

Notice to Proceed was issued on June 15, 2017 and construction commenced. D.W. Nicholson replaced the valves in both Redwood City and Menlo Park Pump Stations concurrently. Substantial Completion was reached for the installation of the valves on November 10, 2017. The Substantial Completion Certificate is attached.

Costs for the valve procurement and installation were \$389,357.71 and \$514,000 respectively, giving a total construction cost of \$903,357.71.

FINANCIAL IMPACT

Construction costs (procurement and installation) total \$903,358. Soft costs for the project total \$206,642 (22% of the construction cost). The total budget for Capital Projects 262 and 263 is \$927,081; therefore, the budget is exceeded by \$182,919. The budget was developed prior to procurement of the needed valves and installation costs were known and was based on best information available at the time the budget was developed (January 2016). Since the budget was developed, the construction bidding environment became more competitive and the work required in the pump stations proved to be more challenging than originally anticipated.

The operating budget also includes two other valve replacement projects; one each for San Carlos pump station and Belmont pump station with a total budget of \$362,000. Since those budgets were developed, Maintenance staff determined that the valves in these pump stations are in decent condition and those expenditures not required. The unused funds from those two projects was applied towards completion of Projects 262 and 263, resulting in an overall expenditure that was approximately \$179,000 less than the originally expected costs.

RECOMMENDATION

Move approval of ACCEPTANCE TO THE PUMP STATION VALVE PROCUREMENT AND PUMP STATION VALVE REPLACEMENT PROJECTS (CAPITAL PROJECT #262, #263) AND AUTHORIZE FILING NOTICE OF COMPLETION – D.W. NICHOLSON

**Silicon Valley Clean Water
Pump Station Valve Replacement (Project #262/263)
SUBSTANTIAL COMPLETION CERTIFICATE**

The following portions of the Pump Station Valve Replacement (Project #262/263) are accepted as Substantially Complete in accordance with Specification Sections 00700-8.6 and 00800-1.5 and as defined herein.

As of November 10, 2017, these portions of the Project are accepted:

1. All work on the Project except as noted below:
 - a. All work on the attached Punch List, dated November 10, 2017.

As of the above dates the following responsibilities are agreed to:

1. Authority:
 - a. The Authority assumes responsibility for security, maintenance (except as noted below), heat, utilities, damage to the Work (except as caused by the Contractor's actions) and insurance for the facilities.
2. D.W. Nicholson:
 - a. The Contractor shall maintain and provide proof of insurance as required by Specification Section 00800-3.1.4 for all work required to complete the Punch List and for five years following Final Completion as required by Specification Section 00800-3.2 or as otherwise referenced in the technical specifications.
 - b. The Contractor shall be responsible for repairs or maintenance, as necessary, until the Contractor has submitted, and the Authority has accepted all Record Documents and Operation & Maintenance Manuals.
 - c. The Contractor shall work in an expeditious manner to complete the remaining work and administrative requirements on the Project including the items on the Punch List, dated November 10, 2017, within sixty (60) days from the date of this certificate.

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract Documents. The one year (365 Calendar Days) warranty for the accepted Work shall commence per Specification Section 01740-1.0 on the date of Acceptance by Silicon Valley Clean Water.

The undersigned hereby acknowledge agreement to the above provisions:

Contractor: D.W. Nicholson

Construction Manager: Tanner Pacific, Inc.

By: _____

Phil Grove

By: _____

Michael K. Jaeger, P.E., QSD/QSP

Title: Project Manager

Title: Construction Manager

Date: _____

11/21/2017

Date: _____

11/21/2017



Tanner Pacific Inc.

Printed on Tue Nov 21, 2017 at 08:18 am PST

Job #: 011703.07 SVCW Pump Station Valve Replacement (Project 262, 263)
1581 Maple Street
Redwood City, California 94063

My Punch List Items

#	Title	Type	Assignee Company	Assignee Name	Response Status	Status	Creator	Date Created	Date Due	Location	Trade	Reference	Priority
8	MPPS: Touch up coating on actuator on Valve 205		D.W. Nicholson	Phil Grove	Unresolved	Open	Joel Cabrera	11/21/2017	12/31/2017				
7	MPPS: Loosen expansion joint restraints		D.W. Nicholson	Phil Grove	Unresolved	Open	Joel Cabrera	11/21/2017	12/31/2017				
6	MPPS: Touch up coating on Duckbill Check Valves		D.W. Nicholson	Phil Grove	Unresolved	Open	Joel Cabrera	11/21/2017	12/31/2017				
5	MPPS: Seal pump 1,4,5 counterweight arms		D.W. Nicholson	Phil Grove	Unresolved	Open	Joel Cabrera	11/21/2017	12/31/2017				
4	RCPS: Seal Pumps 1-3 check valve counterweights		D.W. Nicholson	Phil Grove	Unresolved	Open	Joel Cabrera	11/21/2017	12/31/2017				
3	RCPS: Switch Pump 3 discharge/suction pressure gauge		D.W. Nicholson	Phil Grove	Unresolved	Open	Joel Cabrera	11/21/2017	12/31/2017				
2	RCPS: Verify location of 5th expansion joint		D.W. Nicholson	Phil Grove	Unresolved	Open	Joel Cabrera	11/21/2017	12/31/2017				
1	Coat Concrete Supports		D.W. Nicholson	Phil Grove	Unresolved	Open	Joel Cabrera	11/14/2017	12/31/2017				

**Silicon Valley Clean Water
Site Stabilization, Grading and Drainage - CIP# 6013
SUBSTANTIAL COMPLETION CERTIFICATE**

The following portions of the Site Stabilization, Grading and Drainage project are accepted as Substantially Complete in accordance with Specification Sections 00700-8.6 and 00800-1.5, and as defined herein.

As of November 18, 2017, these portions of the Project are accepted:

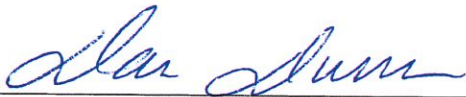
1. All work on the Project except as noted below:
 - a. All work on the attached Punch List, dated November 18, 2017.

As of the above dates the following responsibilities are agreed to:

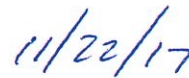
1. Authority:
 - a. The Authority assumes responsibility for security, maintenance (except as noted below), heat, utilities, damage to the Work (except as caused by the Contractor's actions) and insurance for the facilities.
2. Contractor:
 - a. The Contractor shall maintain and provide proof of insurance as required by Specification Section 00800-3.1.4 for all work required to complete the Punch List and for one year following Final Completion as required by Specification Section 00800-3.2.
 - b. The Contractor shall be responsible for repairs or maintenance, as necessary, until the Contractor has submitted, and the Authority has accepted all Record Documents and Operation & Maintenance Manuals.
 - c. The Contractor shall work in an expeditious manner to complete the remaining work and administrative requirements on the Project including the items on the Punch List, dated November 18, 2017.

The one year (365 Calendar Days) warranty for the accepted Work shall commence per Specification Section 01740-1.0 on the date of Acceptance by Silicon Valley Clean Water.

The undersigned hereby acknowledge agreement to the above provisions:



Accepted By (Teichert Construction):
Dan Duncan, Project Manager



Date



Recommended By (Tanner Pacific, Inc.):
Evan Currie, P.E., Construction Manager



Date

RESOLUTIONS AUTHORIZING SUBMITTAL OF APPLICATIONS FOR TWO STATE REVOLVING FUND PRINCIPAL FORGIVENESS LOANS FOR SOLAR PHOTOVOLTAIC ENERGY PROJECT AND FOR WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE 2 – RELIABILITY PROJECTS, DESIGNATING AND AUTHORIZING MANAGER TO PROVIDE ASSURANCES, CERTIFICATIONS AND COMMITMENTS, AND MAKING FINANCIAL COMMITMENTS AND DECLARATION OF INTENTIONS IN SUPPORT THEREOF

ISSUE

For two separate projects (the Solar Photovoltaic Energy Project and the Wastewater Treatment Plant Improvements Phase 2 – Reliability Projects), adoption of three resolutions, respectively (six total authorizing resolutions). The first resolution authorizes and directs the Manager to sign and file, for and on behalf of Silicon Valley Clean Water (SVCW), financial assistance applications for a financing agreement with the California State Water Resources Control Board (CSWRCB) for the planning, design, and construction of a project. The second resolution dedicates and pledges SVCW revenue to payment of California Clean Water State Revolving Fund (SRF) financing. The third resolution confirms SVCW is eligible for reimbursement of capital expenditures incurred. A seventh resolution rescinds prior resolutions related to application for loans that are no longer useable for these projects.

BACKGROUND

SVCW adopted its first Capital Improvement Program (CIP) in 2008. Since this initial adoption the CIP has been updated several times, most recently in October 2017 when the total estimated costs were set at \$834 million. SVCW has thus far completed over 100 CIP projects at a cost of \$252 million to reduce the frequency of wastewater spills, reduce energy use at the wastewater treatment plant, and rehabilitate aging infrastructure.

SVCW has thus far funded projects through a combination of member cash contributions, California Clean Water State Revolving Fund (SRF) loans, and wastewater revenue bonds. The below table shows how total proceeds generated thus far is \$427 million.

Source of CIP Funds to date (\$ millions)		
Description	All-in TIC / Interest	Proceeds
Bonds		
2008 Bonds	5.03%	\$ 10.01
2009 Bonds	5.12%	55.86
2014 Bonds	4.18%	65.54
2015 Bonds	3.75%	30.00
2018 Bonds	3.46%	148.98
Subtotal - Bonds		310.38
Cash Contributions in lieu of Debt		
Belmont (2008, 2009, 2014, 2015, 2018)		34.16
Redwood City (2015)		10.00
West Bay Sanitary District (2018)		13.02
Subtotal - Cash		57.17
State Revolving Fund Loans		
Control Building	2.60%	11.36
WWTP Improvements	1.80%	31.55
Conveyance Planning	1.60%	14.00
Subtotal - SRF		56.91
Grant Funding		
PG&E Cogeneration Grant		2.40
California Energy Commission		0.50
Subtotal - Grant Funding		2.90
TOTAL		\$ 427.36

The State of California, through the State Water Resources Control Board (State Water Board, SWRCB), offers low interest rates (currently 1.8%) and favorable payment terms which reduce financing costs. Over the past year, the SWRCB has continually advised applicants that due to sizeable loan applications by large agencies, the SRF program is oversubscribed. In fact, SVCW previously submitted loan applications in 2015 requesting funds for \$35 million of wastewater treatment plant improvements. Those applications have not been approved, and staff now recommends to rescind those associated resolutions and authorize the Manager to provide written notification to the State Water Board withdrawing those previously submitted loan applications.

There may be, however, funds available from a principal forgiveness program. The CSWRCB manages a Green Project Reserve fund (GPR), which provides financing for projects broadly classified as providing energy efficiency, water efficiency, green infrastructure, or environmental innovative activities. The principal (or loan) forgiveness

limit is 50 percent of actual GPR costs eligible costs, up to a maximum loan forgiveness of \$4 million per project.

SVCW intends to submit two projects for GPR principal forgiveness:

- The Solar Photovoltaic Energy Project will install photovoltaic solar panels with the capacity to provide up 1,600,000 kWh of solar electricity annually. It would be constructed at the wastewater treatment plant, with an estimated capital cost of \$8 million.
- The Wastewater Treatment Plant Improvements Phase 2 – Reliability Projects include improvements to the aeration system, dewatering system, and dual media filter gallery at the treatment plant. These improvements would increase treatment efficiency and increase energy efficiency, with an estimated capital cost of \$11.6 million.

DISCUSSION

Following adoption of the recommended resolutions, SVCW will submit the required technical, financial, and environmental portions of the SRF loan application. To complete the financial portion of the loan application, three resolutions by the SVCW governing body must be adopted:

1. To authorize the Manager to submit the application and designates the Manager as Authorized Representative by title as the financing agreement signatory.
2. To dedicate and pledge SVCW revenue as security for the SRF financing agreement.
3. To temporarily fund the Program and subsequently seek reimbursement from the Clean Water State Revolving Fund program for eligible capital expenditures incurred.

For the Solar Photovoltaic Energy Project and the Wastewater Treatment Plant Improvements Phase 2 – Reliability Project, respectively, staff recommends adoption of the three resolutions for each and rescission of the prior resolutions.

FINANCIAL IMPACT

Member Entities have increased, and continue to increase, sewer rates to ensure revenues will be adequate to meet required debt capacity and coverage ratios. The submittal of these application documents may offer an improvement in SVCW's cost of debt service.

Once these applications are complete and approved, the proposed applications could reduce debt liability by as much as \$8 million. Due to the uncertainty of being selected by the CSWRCB, the 2018 Long Term Financial Plan has not incorporated GPR principal forgiveness into its debt service estimates.

RECOMMENDATION

- i. Move adoption of RESOLUTION OF THE COMMISSION OF SILICON VALLEY CLEAN WATER APPROVING AND AUTHORIZING SUBMITTAL OF APPLICATION TO STATE WATER RESOURCES CONTROL BOARD FOR FINANCIAL ASSISTANCE UNDER CLEAN WATER STATE REVOLVING FUND PROGRAM FOR THE SOLAR PHOTOVOLTAIC ENERGY PROJECT, AND DESIGNATING AND AUTHORIZING THE AUTHORITY'S MANAGER TO PROVIDE ASSURANCES, CERTIFICATIONS, AND COMMITMENTS REQUIRED FOR SAID APPLICATIONS
- ii. Move adoption of RESOLUTION OF THE COMMISSION OF SILICON VALLEY CLEAN WATER APPROVING AND AUTHORIZING SUBMITTAL OF APPLICATION TO STATE WATER RESOURCES CONTROL BOARD FOR FINANCIAL ASSISTANCE UNDER CLEAN WATER STATE REVOLVING FUND PROGRAM FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE 2 – RELIABILITY PROJECTS, AND DESIGNATING AND AUTHORIZING THE AUTHORITY'S MANAGER TO PROVIDE ASSURANCES, CERTIFICATIONS, AND COMMITMENTS REQUIRED FOR SAID APPLICATIONS
- iii. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY DEDICATING AND PLEDGING PAYMENT OF ANY AND ALL CLEAN WATER STATE REVOLVING FUND FINANCING FOR THE SOLAR PHOTOVOLTAIC ENERGY PROJECT
- iv. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY DEDICATING AND PLEDGING PAYMENT OF ANY AND ALL CLEAN WATER STATE REVOLVING FUND FINANCING FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE 2 – RELIABILITY PROJECTS
- v. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY RELATING TO REIMBURSEMENT FROM CLEAN WATER STATE REVOLVING FUND PROGRAM FOR CAPITAL EXPENDITURES FOR THE SOLAR PHOTOVOLTAIC ENERGY PROJECT
- vi. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY RELATING TO REIMBURSEMENT FROM CLEAN WATER STATE REVOLVING FUND PROGRAM FOR CAPITAL EXPENDITURES FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE 2 – RELIABILITY PROJECTS
- vii. Move adoption of RESOLUTION OF THE COMMISSION OF THE SILICON VALLEY CLEAN WATER AUTHORITY RESCINDING RESOLUTIONS 15-31, 15-32, AND 15-33 AND AUTHORIZING MANAGER TO WITHDRAW THE AUTHORITY'S PRIOR APPLICATION TO THE STATE WATER RESOURCES CONTROL BOARD FOR FINANCIAL ASSISTANCE FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENT PHASE 2 PROJECT

**CONSIDERATION OF REVISING ADMINISTRATIVE POLICY 2007-03,
WORKPLACE VIOLENCE AND ADOPTION OF
ADMINISTRATIVE POLICY 2018-02, ANTI-BULLYING**

ISSUE

Adopt and Approve Revision A of Administrative Policy 2007-03 “Workplace Violence” and Adopt Administrative Policy 2018-02, “Anti-Bullying”

BACKGROUND

Establishing and maintaining a safe and productive workplace is an essential need for any business. SVCW has many policies in place to assist both management and employees in understanding the importance of many workplace rules and processes. These policies provide direction for the day to day functions of the Authority.

DISCUSSION

SVCW management is in the process of reviewing and updating all existing SVCW policies and developing new policies where deficiencies are found. There are nearly 100 existing policies dating back to 1976. Some of these have been updated routinely over the years, while others were developed and have not been reviewed or updated since the early 1980s.

The two attached policies are important in the establishment of expected behavior of all SVCW employees. The policy addressing work place violence was developed in 2007, while the policy to address “bullying” is a brand new policy to address new laws and regulations pertinent to the workplace. Both policies have had input and review of SVCW Employment Law specialists, Liebert, Cassidy and Whitmore, as well as SVCW General Counsel review.

The SVCW Manager recommends approval and adoption of said policies.

FINANCIAL IMPACT

There are no direct financial impacts to this action.

RECOMMENDATION

- i. Move adoption of RESOLUTION APPROVING AND ADOPTING REVISION A OF ADMINISTRATIVE POLICY 2007-03, “WORKPLACE VIOLENCE”
- ii. Move adoption of RESOLUTION APPROVING AND ADOPTING ADMINISTRATIVE POLICY 2018-02, “ANTI-BULLYING”

Rev: A

Rev Date: 3/8/2018

Issue Date: 10/3/2007

Approved by the SVCW Commission at Meeting of March 8, 2018 by Resolution SVCW 18-XX

SUBJECT: Workplace Violence

RELATED POLICIES:

1989-01, SVCW House Rules

1989-02, Guideline for Disciplinary Procedures

1988-05, Prohibition of Discrimination, Harassment and Retaliation

2018-02, Anti-Bullying

PURPOSE:

The purpose of this policy is to establish guidelines for what is to be considered unacceptable behavior in the workplace, however, the policy cannot describe every possible action that can be defined or considered to be unacceptable behavior in the workplace.

POLICY:

Silicon Valley Clean Water is committed to providing a safe work environment that is free of violence and the threat of violence. The top priority in this process is effectively handling critical workplace incidents, especially those dealing with actual or potential violence.

Employees are prohibited from participating in or promoting acts of intimidation, violence, threats, coercion, assault and/or abusive behavior toward any person while in the course of Silicon Valley Clean Water employment. Silicon Valley Clean Water has zero tolerance for any conduct that references workplace violence, even if it was intended to be harmless, humorous, a prank, blowing off steam, or venting.

Violence or the threat of violence, against or by any employee of Silicon Valley Clean Water or any other person is unacceptable.

- 1) A non-employee who demonstrates or threatens violent behavior towards an SVCW employee may be subject to criminal prosecution, and
- 2) Should an employee who demonstrates or threatens violent behavior may be subject to disciplinary action, as well as criminal prosecution.

The following actions are examples of acts considered violent:

- Striking, punching, slapping or assaulting another person;
- Fighting or challenging another person to fight;
- Grabbing, pinching or touching another person in an unwanted way;
- Engaging in dangerous, threatening or unwanted horseplay;
- Use, or threat of use, of a gun, knife or other weapon of any kind on SVCW property, including

parking lots, other exterior premises, SVCW vehicles, or while engaged in activities for SVCW in other locations;

- Threatening harm or harming another person, or any other action or conduct that implies the threat of bodily harm;
- Harassing or threatening communication;
- Surveillance;
- Stalking.

No one, acting in good faith, who initiates a complaint or reports an incident under this policy will be subject to retaliation or harassment. However, complaints initiated under false pretense are a harassing practice and will be acted upon the same as any other harassment action under this policy.

Any employee, reported to be a perpetrator, will be provided both due process and representation before SVCW disciplinary action is taken.

In the event SVCW fears for the safety of the perpetrator or the safety of others at the scene of the violent act, law enforcement will be called.

RESPONSIBILITY:

In the event of an imminent threat, call 911 immediately.

Any employee who is the victim of any violent threatening or harassing conduct, any witness to such conduct, or anyone receiving a report of such conduct, whether the perpetrator is an SVCW employee or a non-employee, shall immediately report the incident to their supervisor, director, department head, SVCW Manager or Human Resources.

Human Resources or designee will document the incident, including the employee names(s), date/time, location, incident description, witness names and statements, description of unidentified parties, description of the act(s) and/or behavior arising from the incident, action taken, and provide any other relevant information regarding the incident.

Human Resources or designee will take appropriate steps to provide security, such as:

- Placing the employee alleged to have engaged in workplace violence on administrative leave, pending investigation;
- Asking any threatening or potentially violent person to leave the site; or
- Immediately contacting an appropriate law enforcement agency.

In addition, employees who are subject to, or apply for, restraining orders must disclose this to their Director and Human Resources. SVCW may also petition for, or provide employees with instructions to obtain, an "Injunction Prohibiting Harassment of Employee" which is a Temporary Restraining Order process that workplaces can initiate for their employees.

Rev: Issue**Rev. Date: 3/8/2018****Issue Date: 3/8/2018**

Approved by the SVCW Commission at Meeting of March 8, 2018 by Resolution SVCW 18-XX

SUBJECT: Anti-Bullying**RELATED POLICIES:**

1989-01, SVCW House Rules

1989-02, Guideline for Disciplinary Procedures

1988-05, Prohibition of Discrimination, Harassment and Retaliation

2007-03, Workplace Violence

PURPOSE:

Silicon Valley Clean Water (SVCW) is committed to providing a safe work environment. In addition to prohibiting all forms of discrimination and harassment, SVCW also prohibits any form of “intimidation or bullying” in the workplace or elsewhere, such as at offsite events.

POLICY:

Every employee and other individuals, such as temporary agency workers, consultants, independent contractors and visitors, have the right to be treated with respect. Bullying is the use of aggression with the intention of harming or intimidating another individual. It can include any intentional written, visual, verbal, or physical act, when the act physically harms the individual or damages his or her property; has the effect of interfering with an employee’s ability to work; is severe or pervasive; and creates an intimidating or threatening environment.

Bullying comes in many shapes and sizes and can take many forms including, but not limited to, excluding, tormenting, taunting, abusive comments, using threatening gestures; pushing, shoving, punching, unwanted physical contact, or any use of violence; graffiti; name-calling, sarcasm, spreading rumors or teasing. Such conduct can also occur via use of electronic or telephonic communications such as the internet, email and chatroom misuse, mobile threats by text messaging, or calls or misuse of cameras and video equipment.

Retaliation: No one, acting in good faith, who initiates a complaint or reports an incident under this policy will be subject to retaliation or harassment. However, complaints initiated under false pretense are a harassing practice and will be acted upon the same as any other harassment action under this policy.

Any employee, reported to be a perpetrator, will be provided both due process and representation before SVCW disciplinary action is taken.

In the event SVCW fears for the safety of the perpetrator or the safety of others, law enforcement will be called.

PROCEDURE:

SVCW will not tolerate bullying in any form. Any individual who believes that he or she is being or has been subjected to any form of bullying should immediately report this to his or her supervisor, director/manager, department head or Human Resources representative. In addition, any person who believes they have witnessed bullying and any person who has received a report of such conduct, whether the perpetrator is an employee or a non-employee, shall immediately report the conduct to their supervisor or other appropriate person in the chain of command.

- 1) Supervisor;
- 2) Director;
- 3) Department head;
- 4) SVCW Manager or
- 5) Human Resources.

Any employee who is reported to be a perpetrator will be provided due process before any disciplinary action is taken. Individuals who violate this bullying policy are subject to disciplinary action, up to and including termination.

**BOND ISSUANCE AND DISCLOSURE
LEGAL SERVICES AGREEMENT FOR JONES HALL**

ISSUE

Approval of Master Services Agreement for Jones Hall for Financial Services Related Legal Services.

BACKGROUND

Over the past eight years, SVCW has been implementing its Capital Improvement Program with over 60 projects completed since inception and multiple loans obtained and bonds sold. Ensuring the legal terms and conditions of loan documents is critical to protect SVCW, the Member Entities and the public. There have been several times when SVCW's Chief Financial Officer (CFO), General Counsel and Manager have utilized the assistance and expertise of a legal firm that specializes in legal transactions specific to the issuance and ongoing disclosure requirements associated with bond sales, as well as obtaining Lines of Credit from commercial banks and California State Water Resources Control Board State Revolving Fund loans (SRF) to review and approve documents related to these transactions. The need for these specialized legal services does not occur often, but it an important and needed service every time SVCW borrows funds.

DISCUSSION

SVCW's General Counsel, CFO and Manager recommend contracting with the firm of Jones Hall, A Professional Law Corporation, of San Francisco. Jones Hall has specialized in public agency financing law for several decades and possesses particular expertise and knowledge related to SVCW's financial needs Mr. Charles (Chick) F. Adams, President of Jones Hall provides personal direction and hands on expertise to the Authority in the processing of the complex legal documents needs to obtain the various financing.

To do work for SVCW, all consultants are required to be under contract via a SVCW Master Services or Legal Services Agreement (MSA or LSA). In the processing of the recent SVCW Bond Issuance, staff discovered that Jones Hall has been completing work for SVCW is the past without having a LSA in place and wish to correct this oversight. It is proposed that Jones Hall enter a LSA to establish the contract basis for consulting services as needed. As with other consulting agreements, future work will be authorized on a task order basis and there is no direct or immediate fiscal impact resulting from the approval of the Legal Services Agreement.

FINANCIAL IMPACT

There are no direct financial impacts to approval of this Legal Services Agreement. Specific work is authorized via Task Orders as needed and charged to specific projects for which Jones Hall provides services. In the case of a bond sale, all legal fees are paid at closing through the proceeds of the bond. Jones Hall has recently completed work on the 2018 bond sale and will be compensated for their work from the bond proceeds.

In accordance with SVCW policy, any future Task Order with a value in excess of \$75,000 will be brought to the Commission for approval.

RECOMMENDATION

Move adoption of RESOLUTION AUTHORIZING EXECUTION OF LEGAL SERVICES AGREEMENT FOR SPECIAL OUTSIDE COUNSEL – JONES HALL, A PROFESSIONAL CORPORATION

**NEW 12KV SWITCHGEAR PROJECT (CIP #9807)
AWARD OF CONSTRUCTION CONTRACT**

ISSUE

Award of Construction Contract for New 12kV Switchgear Project (CIP #9807).

BACKGROUND

Electrical utility power for the SVCW treatment plant is currently provided from a single 12kV Pacific Gas and Electric Company (PG&E) connection located near the plant entrance. This PG&E power service enters the plant's main 12kV switchgear where it is metered and then distributed to all plant electrical loads. This switchgear was installed as part of the Power Reliability Improvements Project.

Facilities within the RESCU Program that are included in the Front of Plant Project (Receiving Lift Station, Headworks, and Influent Connector Pipe) will increase the Plant's overall electrical demand. These new facilities require an increase of the Plant's power distribution system. Also, the current 12kV feed from PG&E poses a single point of failure for utility power. Finally, staff has discussed with PG&E requirements to connect onsite generation facilities (photovoltaics, battery systems, and cogeneration engines) to the utility's power grid to "export" or sell power back to PG&E or another utility and recently submitted the application to do so.

The additional demands from the Front-of-Plant project, the need for redundant power feeds, and power export opportunities have led staff to recommend installing an additional 12 kV power feed primary switchgear at the treatment plant.

DISCUSSION

The large pumps that are required to lift the wastewater from the gravity pipeline to ground elevation will add a power demand at the plant site. Most of the cost related to the higher power demand will be offset by elimination of pumps or the use of smaller pumps at the remote pump stations. The existing 12 kV switchgear that supplies power to the plant was not designed with these new power demands in mind. While it was built with some ability to expand in the future, adding these demands to the switchgear would put it beyond its capacity. Also, the existing 12kV switchgear is a single point of failure to the entire treatment plant.

Since its inception, SVCW has sought ways to produce electricity and to reduce energy usage at the treatment plant and remote pump stations. Currently, the plant uses the biogas from the anaerobic digesters to power cogeneration engines which, in turn, supply electricity to run the treatment processes. Due to the existing PG&E service agreement and California Public Utility Commission's (CPUC) Rule 21, SVCW has a limitation on the amount of electricity it can produce with its cogeneration engines (limited to 80% of the engines' capacity). This limitation is due to a "non-export" provision in current PG&E agreement. Under the requirements of CPUC Rule 21, SVCW could initiate a change in their agreement with PG&E to allow exporting excess, onsite-produced power to the grid. To accomplish this with the existing switchgear, expensive alterations to the equipment

would need to take place along with elaborate temporary power provisions while the alterations are taking place.

By introducing a new PG&E service and associated switchgear, the new equipment could be constructed with the necessary CPUC Rule 21 protection requirements. This will, in turn, allow power to be exported to the PG&E grid without impacting existing plant operation. This second switchgear can be constructed and energized with little impact to the existing switchgear, thus greatly simplifying the construction and start-up for the new RLS and Headworks facilities. From a physical connection space perspective, the new 12kV switchgear would also be designed and constructed to be above the 100-year flood plain elevation, thus ensuring an even more robust power system to serve the treatment plant.

The construction documents were completed by two engineering consulting firms, Beecher Engineering and Kennedy/Jenks and the bid documents were advertised on February 5, 2018. A mandatory pre-bid meeting was held at SVCW on Wednesday, February 14, 2018. Bids were due on Thursday, March 1, 2018 and three proposals were received. The bid summary is attached. JF Shea/Parsons Joint Venture is the lowest responsible bid in the amount of \$7,527,000; staff recommends awarding the procurement contract to JF Shea/Parsons Joint Venture.

FINANCIAL IMPACT

Work under this project will be funded from a project in the 2017 CIP Update, New 12kV Primary Switchgear project (CIP #9807), which has an allocated capital budget of \$10.6 million. As of the mid-February 2018, \$100,800 has been expended on design and administrative tasks.


RECOMMENDATION

Move adoption of RESOLUTION ACCEPTING CONTRACT DOCUMENTS AND ACCEPTING BID OF LOWEST RESPONSIBLE BIDDER FOR THE NEW 12KV SWITCHGEAR PROJECT (CIP #9807); REJECTING ALL OTHER BIDS, AUTHORIZING EXECUTION OF AGREEMENT FOR SAID WORK, DIRECTING RETURN OF SECURITY DEPOSITS THEREFORE, AND AUTHORIZE MANAGER TO APPROVE CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT VALUE FOR SAID PROJECT (\$7,527,000) – JF SHEA/PARSONS JOINT VENTURE

New 12kV Switchgear Project - CIP #9807

Bid Opening

Thursday, March 1, 2018; 2:00 pm

											
Name of Bidder	Addendum	Proposal Guaranty Bond	Cert. of Bidders Exp. & Qualifications	Cert. of Subcontractor's Experience & Quals.	Desig. of Subcontractors	Site Visit Affidavit	Schedule of Major Equipment & Material Suppliers	Ackw. of Insurance Req's.	Noncollusion Affidavit	Affidavit of Safety Compliance	Total Bid Amt.
	#1 & 2	Section 00410	Section 00420	Section 00420A	Section 00430	Section 00440	Section 00450	Section 00470	Section 00480	Section 00490	
1 * J.F. Shea/Parsons JV	X	X	X	X	X	X	X	X	X	X	\$7,527,000
2 C. Overaa & Co.	X	X	X	X	X	X	X	X	X	X	\$8,128,000
3 Rodan Builders, Inc.	X	X	X	X	X	X	X	X	X	X	\$8,491,071
*Pending Commission approval. Next Commission meeting is scheduled for Thursday, March 8, 2018.											

LONG TERM FINANCIAL PLAN
2018 UPDATEISSUE

Approval of Receipt and Acceptance of the Silicon Valley Clean Water Long Range Financial Plan, March 2018 Update.

BACKGROUND

The proposed Long Range Financial Plan (LRFP, or Plan) update describes the total cash flows needed by Silicon Valley Clean Water (SVCW) over the next decade to provide wastewater services to the communities it serves. This includes funding for operations and maintenance of wastewater facilities, revenue-funded capital projects, debt service payments, and required cash reserve contributions. Meant to encourage discussion and support decision making, the Plan provides up-to-date financial information so that SVCW and its Member Entities have the information needed to understand the financial impact of decisions and communicate with internal and external stakeholders.

The Plan conforms to the financial and budgetary aspects of the SVCW Joint Powers Agreement, the adopted 2017-18 operating/capital budgets, and relevant fiscal policies that influence cash flow requirements. It is updated annually and presented to the SVCW Commission to measure SVCW's financial position relative to anticipated cash flows from Member Entities. It is especially critical that SVCW adhere to the Plan's components for construction and cost schedules, to maintain adequate debt coverage ratios, and to ensure operating costs are within forecasted levels.

DISCUSSION

In 2008, engineering studies determined the majority of SVCW's fixed assets were beyond their useful lives and needed replacement. SVCW thereafter initiated its Capital Improvement Program (CIP) in order to replace and rehabilitate its wastewater conveyance and treatment system in a structured and prioritized manner. Now in its tenth year, the CIP has completed over 100 projects and to date has spent \$252 million to rebuild, rehabilitate, and upgrade its facilities. An October 2017 CIP update included new information and now estimates the entire CIP cost will be \$834 million. Remaining expenditures are \$582 million and expected Member Entity allocations are illustrated below:

SVCW Remaining Capital Expenditures - By Fiscal Year End and Member Allocation										
		2017-18								
Member Entity, CIP Alloc.	Remaining	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total	
Belmont	9.45%	\$2.84	\$12.64	\$17.72	\$12.55	\$3.12	\$2.45	\$2.50	\$1.11	\$54.92
Redwood City	48.57%	14.62	64.94	91.09	64.51	16.01	12.57	12.85	5.70	282.30
San Carlos	15.14%	4.56	20.24	28.39	20.11	4.99	3.92	4.01	1.78	88.00
West Bay SD	26.84%	8.08	35.89	50.34	35.65	8.85	6.95	7.10	3.15	156.00
TOTAL	100.00%	\$30.10	\$133.71	\$187.54	\$132.81	\$32.96	\$25.89	\$26.46	\$11.74	\$581.22
<i>Prior LRFP's Assumption:</i>		<i>\$27.32</i>	<i>\$163.23</i>	<i>\$146.43</i>	<i>\$76.60</i>	<i>\$23.22</i>	<i>\$43.95</i>	<i>\$47.88</i>	<i>\$18.40</i>	<i>\$547.03</i>

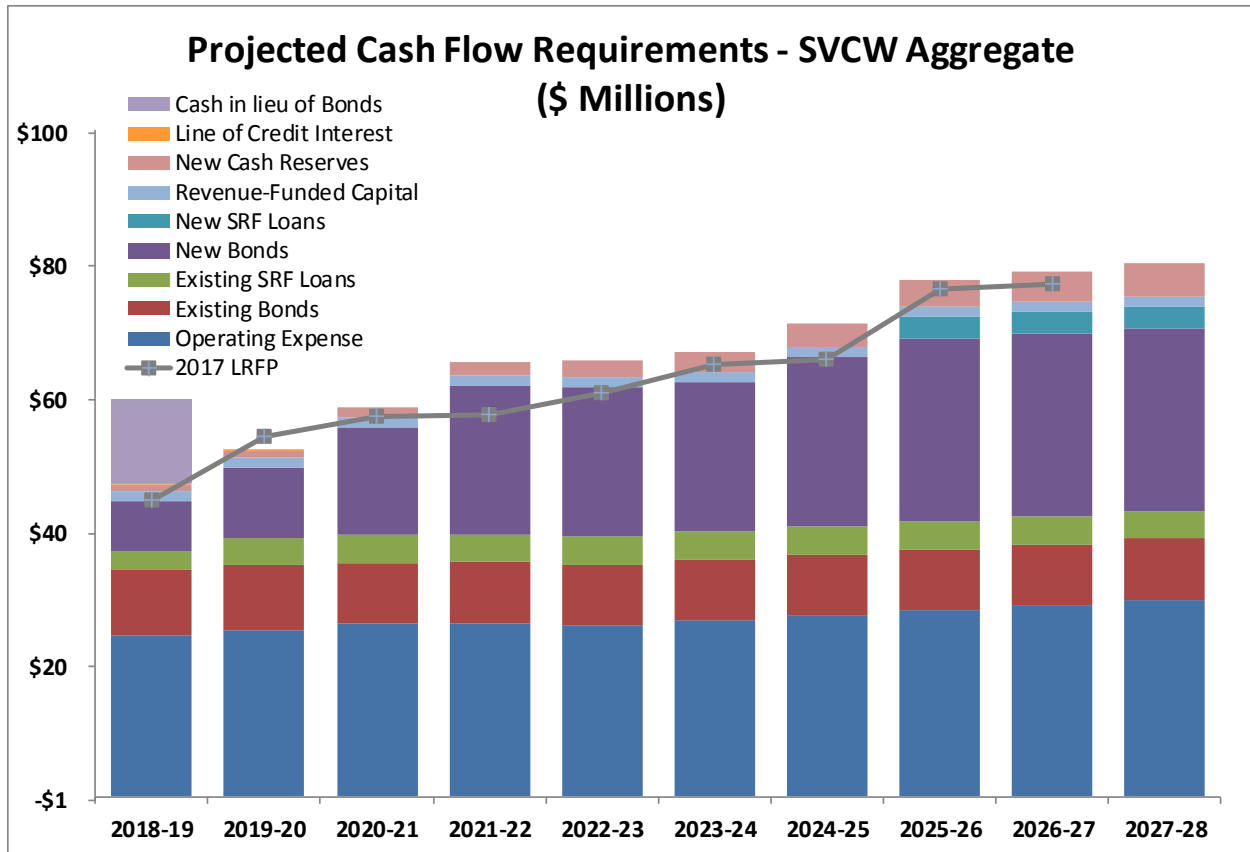
The CIP is largely being funded through a long-term debt strategy. The LRFP assumes remaining funding will be 84% wastewater revenue bonds, 11% Government Loans, and 5% Member Agency cash contributions.

Compared to the January 2017 LRFP, this Plan incorporates three significant changes:

- CIP Update – In October 2017, SVCW updated its CIP document to incorporate changes in project cost estimates, add or delete projects, and apply inflationary impacts. Combined, these factors added \$20.1 million and bring total anticipated CIP expenditures (from inception to completion in 2025) to \$833.7 million.
- Construction Timing – SVCW has made significant progress over the past year regarding large conveyance projects in the CIP. Specifically, the gravity pipeline project and the front-of-the-plant facilities are now collectively known as RESCU, or the Regional Environmental Sewer Conveyance Upgrade program. Using Progressive Design-Build (PDB) project delivery, the Authority has entered into two agreements for RESCU. While the total remaining cost of RESCU is approximately \$450 million, Engineering predicts the pace of construction will be somewhat quicker than assumed in the January 2017 LRFP as a result of the PDB delivery method.
- Financing Sources – In last year's LRFP, SVCW assumed a blended debt scenario of 50/50 Bonds versus Government Loans, this updated LRFP advocates reducing the funding available from Government Loans. There has been increasing demand in the wastewater industry for governmental loans. For example, the administrator of the Clean Water State Revolving Fund (SRF) loan program, the California State Water Resource Control Board (the Water Board), has published reports showing it to be oversubscribed by three times. The Water Board has cautioned SRF loan applicants that, unless the state takes additional funding action, it is unable to satisfy the full demand for wastewater capital programs. This LRFP therefore further reduces the amount of SRF loans assumed to be available and, instead, plans for a more conservative, bond-financing approach.

FINANCIAL IMPACT

SVCW annual cash flow requirements in FY 2018-19 are estimated at \$60 million, though adjusted to \$47 million if it excludes \$13 million in cash contribution from the City of Belmont, who has opted not to participate in SVCW's 2018 Bond issuance. Cash flow requirements are thereafter projected to reach \$80 million by FY 2027-28. The largest increase in expenditures over the next decade is to service new debt, estimated at approximately \$30.7 million annually, once fully in place. Other non-debt related expenditures are less impactful; an average annual increase of less than four percent in the case of Operating Expense.



RECOMMENDATION

Move approval of RECEIPT AND ACCEPTANCE OF SILICON VALLEY CLEAN WATER CAPITAL IMPROVEMENT PROGRAM (LONG RANGE FINANCIAL PLAN) 2018 UPDATE



Long Range Financial Plan

January 2018



Presented February 2018 by:

Matthew Anderson, CPA
Chief Financial Officer
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Silicon Valley Clean Water Commissioners

<u>Commissioner</u>	<u>Title</u>	<u>Member Agency</u>
John Seybert	Chair	City of Redwood City
Warren Lieberman	Vice Chair	City of Belmont
Robert Grassilli	Secretary	City of San Carlos
George Otte	Member	West Bay Sanitary District

Member Entity Staff

<u>Name</u>	<u>Title</u>	<u>Member Agency</u>
Kimbra McCarthy	ACM of Administrative Services	City of Redwood City
Ramana Chinnakotla	Public Works Director	City of Redwood City
Thomas Fil	Finance Director	City of Belmont
Afshin Oskoui	Public Works Director	City of Belmont
Rebecca Mendenhall	Administrative Services Director	City of San Carlos
Grace Le	City Engineer	City of San Carlos
Tara Peterson	Interim Public Works Director	City of San Carlos
Phil Scott	District Manager	West Bay Sanitary District
Liz Bahrami	Accountant	West Bay Sanitary District
Bill Kitajima	Projects & IT Manager	West Bay Sanitary District

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Silicon Valley Clean Water Staff

Name

Daniel T. Child
Teresa Herrera
Matthew Anderson
Kim Hackett
Monte Hamamoto
Krista Politzer

Title

Manager
Assistant Manager & Chief Engineering Officer
Chief Financial Officer
Engineering Director
Chief Operating Officer
Financial Analyst

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SECTION 1 – EXECUTIVE SUMMARY AND INTRODUCTION

This Long Range Financial Plan (LRFP; or the Plan) describes the expected total cash flows required by Silicon Valley Clean Water (SVCW; or the Authority) over the next decade to provide wastewater services to the communities it serves. This includes funding for operations and maintenance of wastewater facilities, revenue-funded capital projects, Capital Improvement Program projects and their associated debt service payments, and cash reserve contributions. Meant to encourage discussion and support decision making, this Plan provides up-to-date financial information so Member Entities (as herein defined) have the information needed to understand the financial implications of those decisions and to communicate with internal and external stakeholders.

SVCW's Wastewater Treatment Plant (WWTP) was placed in operation November 1981 and connected to an influent conveyance system and effluent disposal system built in 1969. In 2006, engineering studies determined the majority of SVCW fixed assets were beyond their useful lives and needed replacement. SVCW therefore initiated its Capital Improvement Program (CIP) to replace and rehabilitate the wastewater conveyance and treatment system in a structured and prioritized manner. It has also anticipated more stringent treatment requirements will be necessary. Now in its tenth year, the CIP has completed over 100 projects and spent \$252 million through December 2017. The CIP is the Authority's guiding document and a recent update in October 2017 estimates that, inclusive of spending to date, the program will cost \$834 million (in October 2017 dollars).

This Plan incorporates the guidelines from the SVCW Joint Powers Agreement, the adopted 2017-18 Operating and Capital Budget, and relevant fiscal policies that influence cash flow requirements. It also recognizes the importance of contributing to cash reserves to create a sinking fund for future projects.

The LRFP is updated each year to measure SVCW financial position relative to anticipated cash flows needed from SVCW's Member Entities. After incorporating CIP construction and expenditure schedules, the LRFP-recommended strategy ensures SVCW obligations can be met while members strengthen their credit ratings.

Compared to the January 2017 LRFP, this Plan incorporates three significant changes:

- CIP Update – In October 2017, SVCW updated its CIP document to incorporate changes in project cost estimates, add or delete projects, and apply inflationary impacts. Combined, these factors added \$20.1 million and bring total anticipated CIP expenditures (from inception to completion in 2025) to \$833.7 million.
- Construction Timing – SVCW has made significant progress over the past year regarding large conveyance projects in the CIP. Specifically, the gravity pipeline project and the front-of-the-plant facilities are now collectively known as RESCU, or the Regional

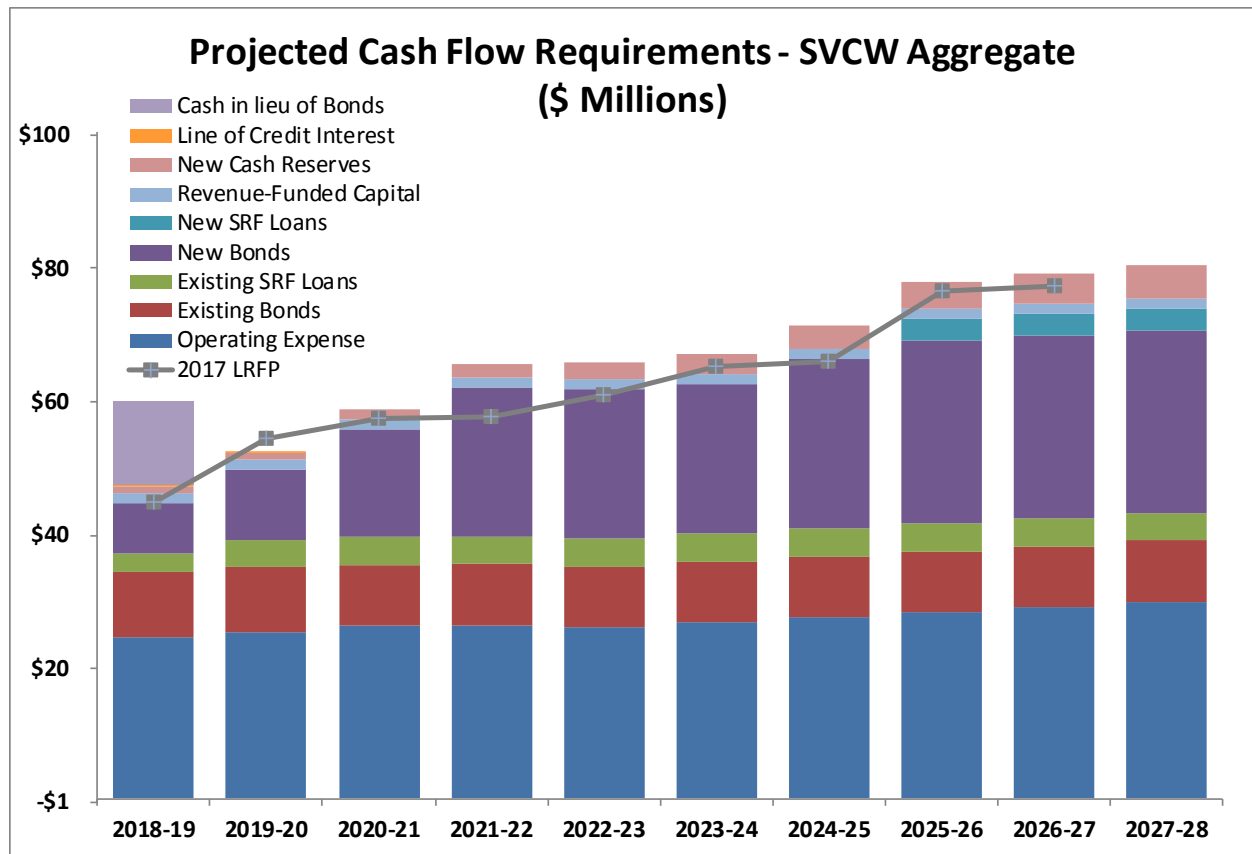
Environmental Sewer Conveyance Upgrade program. Using Progressive Design-Build (PDB) project delivery, the Authority has entered into two agreements for RESCU. While the total remaining cost of RESCU is approximately \$450 million, Engineering predicts the pace of construction will accelerate as a result of the PDB delivery method.

- **Financing Sources** – Whereas in last year’s LRFP SVCW assumed a blended debt scenario of 50/50 Bonds versus Government Loans, this updated LRFP advocates reducing the debt from Government Loans. There has been increasing demand in the wastewater industry for governmental loans. For example, the administrator of the Clean Water State Revolving Fund (SRF) loan program, the California State Water Resource Control Board (the Water Board), has published reports showing it to be oversubscribed by three times. The Water Board has cautioned SRF loan applicants that, unless the state takes additional funding action, it is unable to satisfy the full demand for wastewater capital programs. This LRFP therefore further reduces the amount of SRF loans assumed to be available and, instead, plans for a more conservative, bond-financing approach.

Unfortunately, since original construction of facilities in 1981, SVCW had not set aside funds needed for anticipated capital projects. As SVCW plans to replace and rebuild these facilities, it strives to obtain the lowest-cost financing available. This requires long-term debt, which includes issuing Wastewater Revenue Bonds, pursuit of low-cost Governmental Loans at federal and state levels, and drawing from cash reserves when available.

To fund the CIP, Member Entities began implementing significant increases to their sewer rates in 2008. As the CIP has entered a concentrated period of significant capital expenditures, current sewer rates, with continued modest increases going forward, appear sufficient to fund SVCW’s future operating, debt service, capital, and reserve requirements. This LRFP will provide Member Entities with the information needed for future rate planning.

SVCW annual cash flow requirements in FY 2018-19 are estimated at \$60 million, though adjusted to \$47 million if it excludes \$13 million in cash contribution from the City of Belmont, who has opted not to participate in SVCW’s 2018 Bond issuance. Cash flow requirements are thereafter projected to reach \$80 million by FY 2027-28. The largest increase in expenditures over the next decade is to service new debt, estimated at approximately \$30.7 million once fully in place. Other non-debt related expenditures are less impactful; an average annual increase of less than four percent in the case of Operating Expense. This LRFP describes the structure, timing, and amount of all expenditure increases to inform Member Entities as SVCW plans for the future.



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INTRODUCTION

Purpose of Long-Term Financial Planning

Member Entities' sewer rates provide the underlying repayment security for all SVCW financing. As such, in 2008, SVCW developed a Five Year Financial Plan (the "Financial Plan") to provide a financial roadmap for funding the CIP and ongoing operating costs. The Financial Plan was frequently updated and presented to the SVCW Commission (as hereinafter defined) to incorporate CIP budget figures. It provides a roadmap that Member Entities follow when considering sewer rates.

A long-term financial plan combines financial projections with strategy. The Government Finance Officers Association (GFOA) recommends that all governments regularly engage in long-term financial planning as a collaborative process to consider future scenarios and help navigate challenges. By aligning financial capacity with long-term service objectives, SVCW and its Member Entities) gain insight as to financial resources needed to support strategies. With this information, Member Entities can balance objectives and financial challenges.

SVCW will manage its finances and meet critical funding needs while recognizing its Member Entities' need to maintain reasonable wastewater rates. This LRFP will be enacted as SVCW and its Members adopt annual budgets, monitor financial performance, and incorporate Commission-directed actions. The LRFP is based upon financial planning models that include long-term forecasts of operating and capital expenditures. It includes reasonably conservative assumptions and attempts to account for uncertainties. It aims to generate adequate cash reserves for capital projects while maintaining good standing in the credit markets to provide ready access to cost-effective capital financing when needed. It evaluates the capital financing and debt service coverage policies to optimize cash funding of capital investments. Finally, it continues to evaluate cash reserve policies that must consider intergenerational equity with regards to funding capital projects and raising rates.

The LRFP includes a debt structure model to document recommended debt strategy, identify risks to that strategy, and offer mitigation steps available or alternative funding solutions. As part of the Plan a financial model (the Model) was created to assess financing alternatives for the CIP.

This LRFP is meant to stimulate discussions for decision making by providing up-to-date financial information. Member Entities can incorporate this material to understand the financial impact of decisions, and to communicate those impacts to internal and external stakeholders. This long-term financial plan includes the following elements:

- Time Horizon – The plan looks ten years into the future.
- Scope – The plan considers all expenditures associated with the conveyance and treatment of wastewater received from Member Entities. Expenditures include all SVCW operating costs, capital improvements, debt service, and cash reserve requirements.
- Frequency – This long-term plan is updated annually to aid Member Entities with their own budget and rate-setting processes.
- Content – The plan includes an analysis of the financial environment, revenue and expenditure forecasts, debt position and affordability analysis, strategies for achieving and maintaining financial balance, and monitoring mechanisms such as a scorecard of key financial health indicators. Adherence with the financial plan and the ability to comply with the financial requirements of this Plan can be measured primarily through debt service coverage and the number of days cash on hand. SVCW can readily monitor these financial metrics through an annual review of the Member Entities' respective audited financial statements.
- Visibility – The plan will inform Member Entities about the long-term financial prospects of SVCW. Each year going forward, actual results will be compared to the LRFP by integrating it into future LRFPs.

SVCW Member Entity staff was involved in the Plan preparation process to help identify necessary tables, discuss assumptions, and review results. Member Entities, via the Silicon Valley Clean Water governing commission (the Commission), can now integrate the information provided into their own respective financial plans.

Organizational and Business Structure

SVCW was founded in 1975 as the successor to the Strategic Consolidation Sewerage Plan. SVCW took title to all property, capital and equipment of the Strategic Consolidation Sewerage Plan. SVCW maintains and operates sanitary sewerage pumping, transmission and outfall facilities that were originally constructed or otherwise owned by the Strategic Consolidation Sewerage Plan. SVCW provides wastewater transmission, treatment, and effluent disposal services for the surrounding communities including the Cities of Belmont, Redwood City, and San Carlos and for the West Bay Sanitary District (collectively, the Member Entities). SVCW provides recycled water to the City of Redwood City.

SVCW is a Joint Exercise of Powers Authority (JPA) that provides wastewater transmission, treatment, recycled water, and effluent disposal services to its Member Entities, all facilities of which (hereinafter referred to as Joint Facilities) are located in the northern part of Silicon Valley between the cities of San Francisco and San Jose. SVCW's wastewater treatment plant is located in the City of Redwood City. SVCW serves more than 200,000 people and businesses located predominantly in San Mateo County, California. SVCW operates in a strong Bay Area economy, with a customer base that includes large business customers such as Oracle Corporation, EA Sports, and Facebook.

SVCW owns and operates a regional wastewater treatment plant with an average dry weather flow permitted capacity of 29 million gallons per day, an approximately nine-mile influent force main pipeline that conveys wastewater from the Member Entities to SVCW's treatment plant, four wastewater pump stations, and a 1.25-mile effluent disposal pipeline that discharges treated effluent into the San Francisco Bay. SVCW also provides recycled water to the City of Redwood City.

Governance & Management

The JPA is governed by a four-member Commission consisting of one appointed person from each of the Member Entities' governing bodies. There is a total of 100 votes, allocated as follows:

- City of Redwood City 42 votes
- West Bay Sanitary District 28 votes
- City of San Carlos 19 votes
- City of Belmont 11 votes

A vote of at least seventy five percent is required to adopt or amend bylaws, rules, and regulations; to adopt or modify any budget; to approve any capital costs, contracts, appropriations, or transfers of more than \$75,000; to employ the manager and certain consultants; to sell or dispose of property; and to approve other designated items. Other actions of the Commission must be approved by a simple majority of the votes. In addition, any amendment to the Joint Powers

Agreement must be approved by a four-fifths vote by each of the Member Entities' governing bodies.

Financial Oversight and Control

SVCW sets an annual budget according to goals established by the Commission that support operational priorities, the Capital Improvement Program and the Long Term Financial Plan. The Budget reflects a progressive approach to fund wastewater operations while controlling costs, minimizing unplanned expenditures, limiting risks, and investing in projects and programs that provide the long-term resources needed for the community.

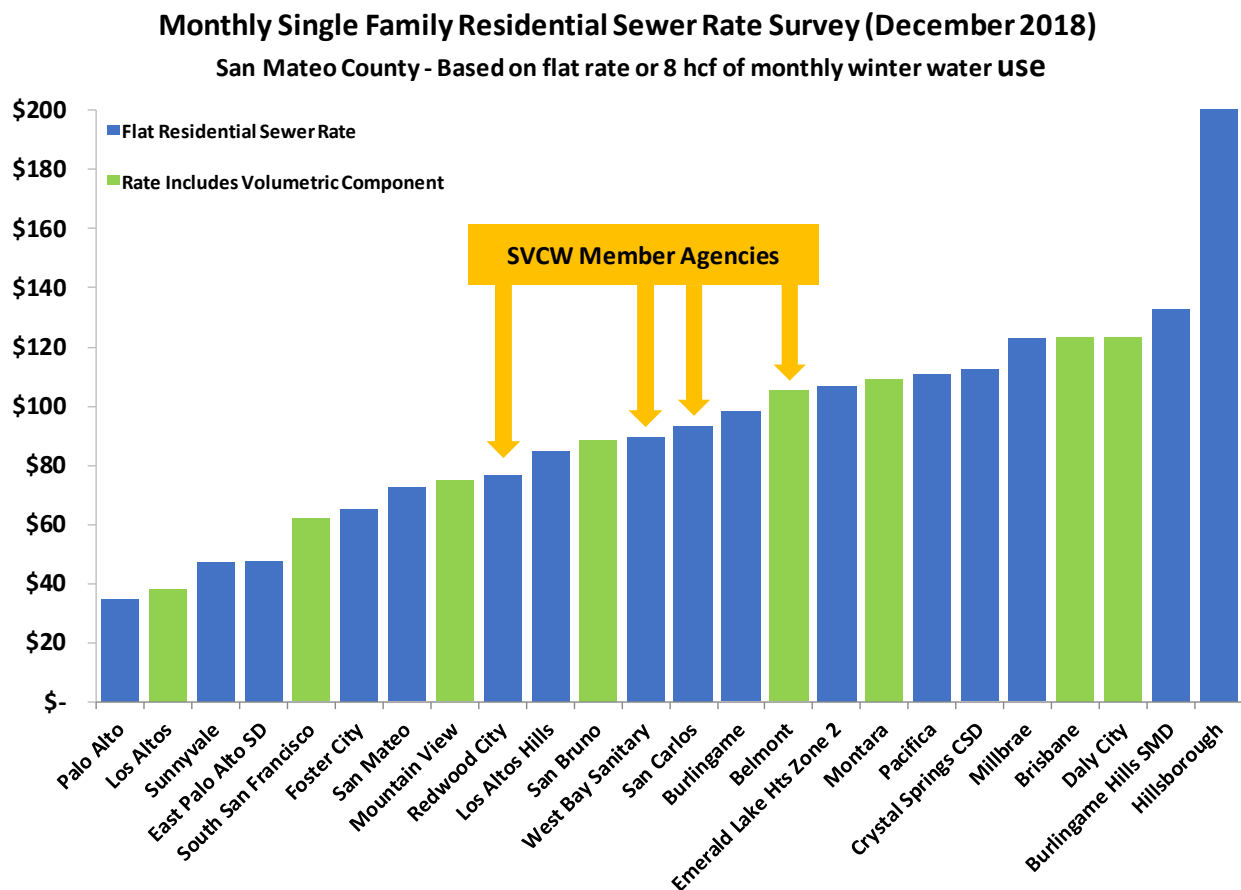
SVCW has no taxing power. SVCW receives nearly all funding, other than interest earnings and other miscellaneous revenues, from payments made by the Member Entities for operations, capital improvements, debt service, and cash reserves.

Comparative Residential Sewer Charges

Based upon previous Financial Plans, Member Entities have already adopted significant rate increases since 2008 to generate their allocable share of the CIP and capital program costs. The following table shows the single family residential monthly sewer rates of each participating SVCW Member Entity over the past nine years.

	Residential Sewer Rates by Member Agency								
	Based on 8 HCF of flow								
	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Belmont	\$48.06	\$51.34	\$72.13	\$77.33	\$82.77	\$88.13	\$ 88.13	\$ 99.47	\$ 105.35
City of Redwood Cit	\$44.70	\$48.72	\$53.10	\$57.88	\$63.09	\$68.77	\$74.95	\$75.11	\$76.68
City of San Carlos	\$43.76	\$46.82	\$50.10	\$53.10	\$67.29	\$80.75	\$88.82	\$88.82	\$93.26
West Bay SD	\$46.67	\$54.17	\$57.50	\$62.67	\$68.33	\$74.42	\$81.08	\$85.92	\$89.33

Despite these increases, Member Entities' rates remain among the middle tier of San Mateo County sewer rates.



Regulations and Permits

The federal Clean Water Act requires that all municipal, industrial and commercial facilities that discharge wastewater or storm-water directly from a point source into a water of the United States (such as a lake, river, bay, or ocean) must obtain a National Pollutant Discharge Elimination System (“NPDES”) permit. All permits are written to ensure the receiving waters will achieve certain water quality standards.

The federal government delegates the NPDES Program to the State of California for implementation through the State Water Resources Control Board and its nine Regional Water Quality Control Boards, collectively Water Boards. It is the responsibility of the Water Boards to preserve and enhance the quality of the state's waters through the development of water quality control plans and the issuance of NPDES Permits.

SVCW currently operates under a five-year NPDES permit that was just renewed through September 2022. SVCW is an active member in the Bay Area Clean Water Agencies (“BACWA”), a consortium of publicly-owned treatment works agencies that operate within the nine-county San Francisco Bay Area. BACWA is central to the NPDES permit process, since some requirements imposed by an NPDES permit are most efficiently fulfilled as a group. SVCW, through BACWA, meets the provisions related to overall receiving water quality monitoring, Total Maximum Daily Load and Site Specific-Objective Support, Mercury Special Studies, Copper Action Plans, and Cyanide Action Plans.

Regulatory requirements of the NPDES program may increase in the future. Many California agencies have already been required to significantly increase treatment to remove nutrients (ammonia, nitrates and phosphates) and further reduce pathogenic organisms. Studies are also underway regarding Active Pharmaceutical Ingredients to monitor the cumulative effects of pharmaceuticals and personal products, including anti-psychotic and antihypertensive drugs.

Additionally, nutrients like nitrogen and phosphorus are found in municipal waste. When excessive, these nutrients are considered harmful water pollutants leading to such problems as algae blooms. Nutrient management is an important planning consideration for California wastewater treatment operators – both to remove and to recover these resources. This LRFP includes estimated costs needed to address nutrients in SVCW’s wastewater. It should be noted, however, that SVCW has joined a cooperative to explore a joint response strategy regarding future Nutrient Removal requirements.

Financial Modeling

The CIP calls for spending \$581 million, net of existing spending through December 2017, on capital expenditures over the next eight years. The Financial Plan documents the funding strategy, risks to this strategy, and the mitigation steps and alternative funding solutions available. Prior to issuing debt SVCW updates a capital finance model to evaluate the impact of capital program spending, operations and maintenance costs, and debt service to its, and the Member Entities’, financial condition. To that end, the SVCW Chief Financial Officer oversees the ongoing maintenance of quantitative modeling that includes, but is not limited to, the following:

- Historic and projected cash flows;
- Historic and projected capital expenditures;
- Historic and projected operating costs;
- Historic and projected cash reserve balances, including the Operating Fund, the CIP Fund, Revenue-funded Capital Fund, and Debt Service Reserve Fund, if any;
- Historic and projected debt service coverage;

- The most efficient mix of funding sources (debt and cash);
- The most efficient form of debt (government-subsidized loans, capital market offerings, or private loans) and most efficient structures;
- Projected revenue requirements; and
- Revenue Sources, including miscellaneous revenues and grants.

The Plan takes into account each of these factors to develop an all-inclusive projection of future cash flow requirements. As part of the Plan, the Financial Model was created to generate and assess multiple debt-based financing alternatives for the CIP. Several scenarios were analyzed to reach the recommended plan, including the extent to which funds would be sourced from Wastewater Revenue Bonds versus Governmental Loans. Further analysis and results are described in Sections 2 and 3 of this Plan.

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SECTION 2 – GUIDING DOCUMENTS AND PRINCIPLES

Audited Financial Reports

SVCW financial statements are maintained in accordance with all state and federal laws, Generally Accepted Accounting Policy, and standards of the Government Accounting Standards Board. This means revenues and expenses are recognized on a full accrual basis, where revenues are recognized in the period when they are earned and expenses are recognized in the period incurred.

An annual audit is performed by an independent public accounting firm, with an unqualified opinion that SVCW financial statements are presented fairly in all material respects.

Operating Budgets

Each year, the adopted budget establishes the funding requirements for Member Entities. It includes all operating costs, revenue-funded capital needs, debt service payments, and cash reserves requirements. A full overview of all expenditures facilitates discussion of anticipated changes. Subsequent to the fiscal year-end closing, annual payments made by each SVCW Member Entity are reconciled against the actual expenditures allocated to each SVCW Member Entity and any differences are applied toward funding reserves held by SVCW.

The Budget is constructed consistent with goals established by the Commission to support operational priorities and the Capital Improvement Program. The Budget reflects a progressive approach to controlling costs, minimizing unplanned expenditures, limiting risk, and investing in activities that provide the long-term resources needed for the community.

Used as a baseline for this study, the 2017-18 Budget was \$39.2 million. This includes \$23.3 million in operating expenditures, \$1.5 million for revenue-funded capital projects, additional cash reserve contributions of \$2 million, and debt service payments estimated at \$12.3 million.

2017-18 Budgeted Expenditures	
Description	2017-18 Adopted Budget
Net Operating Expenditures	\$ 23,291,325
Revenue-Funded Capital	1,546,000
Reserve Designations / Contributions	2,030,298
Debt Service Payments	12,347,586
TOTAL Expenditures & Designations	\$ 39,215,209

Expenditure Allocation

SVCW annual operating and maintenance costs are allocated according to the Joint Powers Agreement. Specifically, administrative, safety, and conveyance operating costs are allocated based on each Member Agency's proportionate share of total flow contributed to the Joint Facilities. Pump Station maintenance and operation costs are tracked as actual costs charged to each pump station and borne by the Member Agency served by each particular pump station. However, the maintenance and operation costs of the booster station are allocated on a percentage basis to West Bay Sanitary District and Redwood City at 92% and 8%, respectively.

Treatment plant operation and maintenance costs are allocated according to each Member Agency's proportionate contribution of hydraulic flow ("Flow"), Biochemical Oxygen Demand ("BOD") and Suspended Solids ("SS") to the Joint Facilities. The total annual treatment plant maintenance and operation costs are allocated as 26.5% to flow, 33.5% to Biochemical Oxygen Demand and 40% to Suspended Solids. Using these allocations, the 2017-18 Operating Budget assigns costs using the following three-year flow and loading averages:

2017-18 Budget Revenue Allocation to Member Agencies - Adopted									
Description				Belmont	Redwood City	San Carlos	West Bay San District	TOTAL	
Allocation Factors									
Flow				13.18%	46.53%	13.55%	26.74%	100%	
Biochemical Oxygen Demand (BOD)				12.48%	46.52%	12.41%	28.59%	100%	
Suspended Solids (SS)				12.61%	46.44%	12.18%	28.77%	100%	
Operating Expenditures	Weightings								
	Flow	BOD	SS						
	Operations	26.5%	33.5%	40.0%	\$ 1,116,816	\$ 4,082,681	\$ 1,108,262	\$ 2,473,966	\$ 8,781,725
	Maintenance	26.5%	33.5%	40.0%	774,628	2,831,765	768,696	1,715,953	6,091,043
	Laboratory	26.5%	33.5%	40.0%	218,965	800,459	217,288	485,051	1,721,762
	Environmental Services	26.5%	33.5%	40.0%	139,371	509,489	138,303	308,733	1,095,896
	Engineering	26.5%	33.5%	40.0%	70,503	257,735	69,963	156,179	554,380
	Safety	100.0%	0.0%	0.0%	50,277	177,495	51,688	102,003	381,463
	Information Services	26.5%	33.5%	40.0%	215,829	788,993	214,176	478,103	1,697,101
	Administrative Services	100.0%	0.0%	0.0%	473,104	1,670,223	486,386	959,849	3,589,562
Subtotal				\$ 3,059,493	\$ 11,118,841	\$ 3,054,763	\$ 6,679,837	\$ 23,912,933	
Subtract Miscellaneous Income	26.5%	33.5%	40.0%	\$ 79,053	\$ 288,990	\$ 78,448	\$ 175,118	\$ 621,608	
2017-18 Net Operating Revenue Required				\$ 2,980,440	\$ 10,829,851	\$ 2,976,315	\$ 6,504,719	\$ 23,291,325	

Capital costs are distributed based on each member entity's percentage of its capacity rights as defined in the Joint Powers Agreement:

<u>Belmont</u>	<u>San Carlos</u>	<u>Redwood City</u>	<u>West Bay</u>
9.45%	15.14%	48.57%	26.84%

Unrelated to the number of votes originally ascribed to Member Agencies in the Joint Powers Agreement, the above capital cost distributions are derived from each member entity's share of

maximum capacity rights of the originally-built facilities ("Stage 1" capacity) plus its share of expansion capacity ("Stage 2"), based on average dry weather flows.

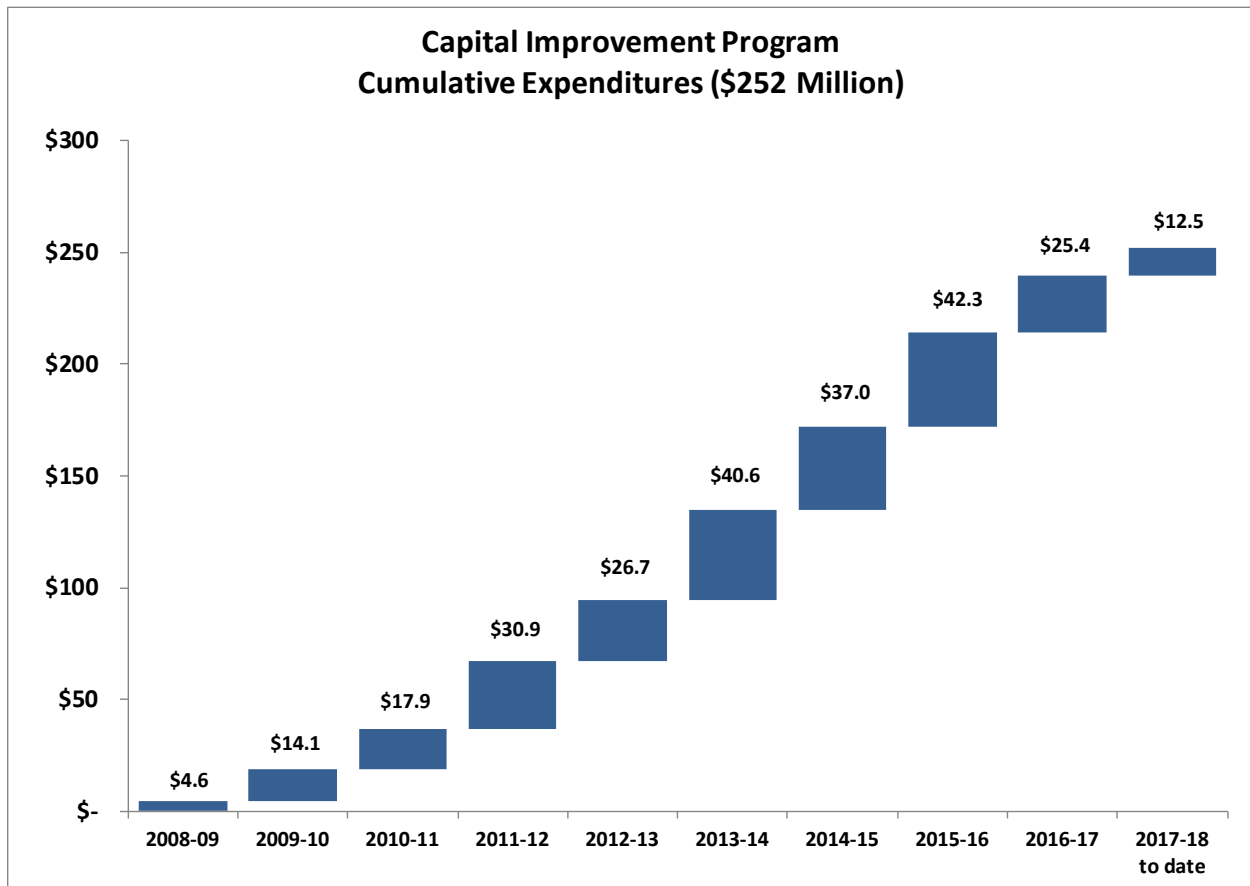
Capital costs associated with the Joint Facilities include improvements resulting from reconstruction, replacement, rehabilitation, remodeling or relocation. This includes all costs meeting the definition of a capital expense as defined in SVCW's Capital Expense Policy.

2017-18 Capital and Reserve Allocation Calculations					
Description	City of Belmont	Redwood City	City of San Carlos	West Bay San District	TOTAL
Capital and Reserve Allocation Factors	9.45%	48.57%	15.14%	26.84%	100.00%
CAPITAL IMPROVEMENT					
Plant (cash-funded capital)	\$ 52,542	\$ 270,049	\$ 84,178	\$ 149,230	\$ 556,000
Pump Stations	53,582	275,392	85,844	152,183	567,000
Force Main	28,350	145,710	45,420	80,520	300,000
Equipment	11,624	59,741	18,622	33,013	123,000
Subtotal	\$ 146,097	\$ 750,892	\$ 234,064	\$ 414,946	\$ 1,546,000
RESERVE CONTRIBUTIONS					
Operating Reserve	\$ (9,506)	\$ (48,860)	\$ (15,230)	\$ (27,000)	\$ (100,597)
CIP Reserve	94,500	485,700	151,400	268,400	1,000,000
Replenish Emergency Capital Spend	106,870	549,276	171,218	303,532	1,130,895
Subtotal	\$ 191,863	\$ 986,116	\$ 307,387	\$ 544,932	\$ 2,030,298
Member Contributions	\$ 337,960	\$ 1,737,008	\$ 541,451	\$ 959,878	\$ 3,576,298

Capital Improvement Program

SVCW is in the process of rebuilding, rehabilitating, and updating its wastewater conveyance and treatment facilities which are at or approaching the end of their useful operating lives. A CIP was developed in 2008 to proactively address near-term and long-term capital replacement needs. Engineering staff periodically updates the CIP to include projects that will address known Joint Facility deficiencies. This includes rehabilitation and replacement of aging infrastructure and equipment; improvements and additions to the treatment plant and conveyance system that substantially enhance reliability; technological upgrades, required regulatory treatment improvements and system-wide automation projects designed to improve operational efficiency and reliability (thereby reducing future operating and maintenance expenses); and additional energy management solutions.

The amounts charged to CIP include all capitalized components of projects such as planning, design, engineering, construction, and construction management. The costs also include interest incurred during construction, as well as certain administrative costs like insurance and internal labor directly related to the CIP work. Since the inception of the CIP, SVCW has spent approximately \$252 million through December 2017.



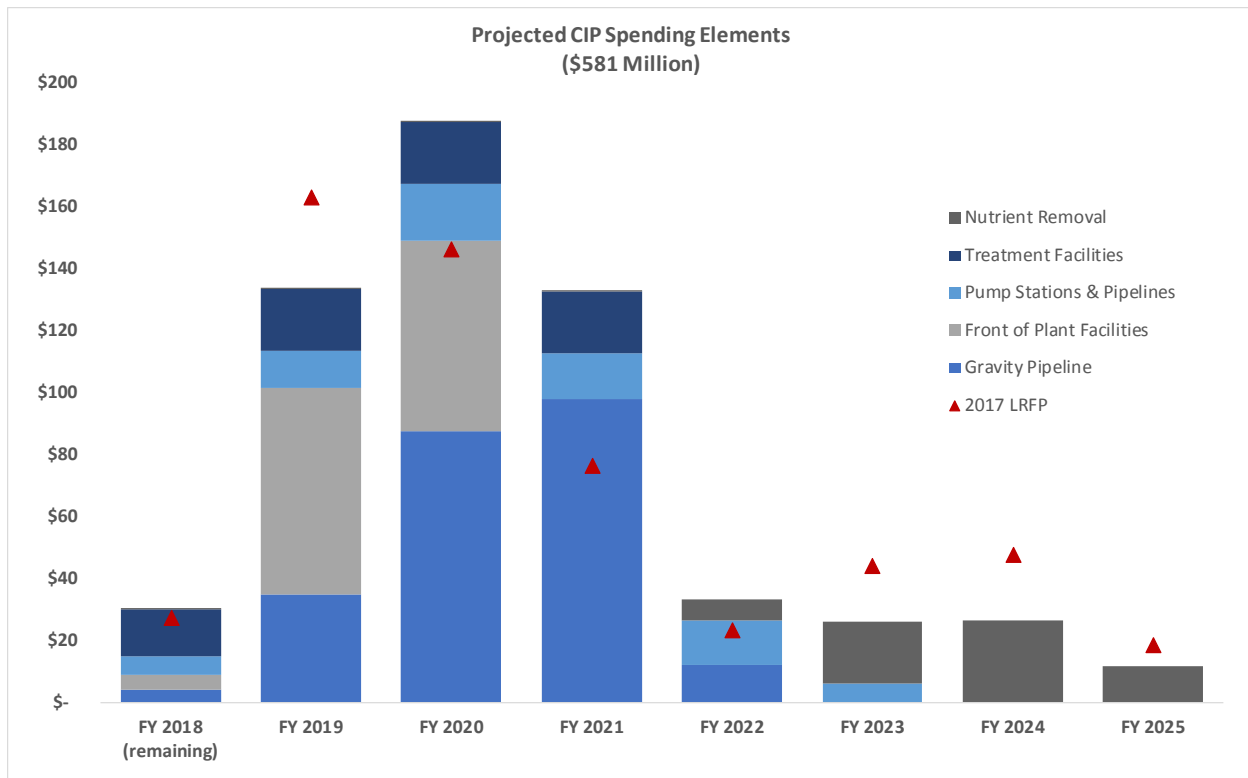
Since inception through December 2017, the majority of CIP spending has been to replace aging pipes, rehabilitate treatment facilities including energy reliability, deliver process automation, and improve solids handling processes.

CIP Expenditures since Inception (\$ Millions)	
Program	Value
Conveyance System	\$ 89.5
Energy and Automation	77.3
General Plant Facilities	35.2
Solids Handling	17.8
Plant Process	17.2
Corrosion and Odor Control	13.6
Nutrient Removal	0.6
CIP Support	0.8
TOTAL	\$ 252.1

Forecasted CIP Expenditures

The CIP was updated in October 2017 and is currently estimated to spend nearly \$834 million from inception to completion in 2025. Going forward from January 2018, its remaining expenditures are estimated at \$581 million. The below table, updated through December 2017, illustrates how remaining capital expenditures are allocated amongst member entities.

SVCW Remaining Capital Expenditures - By Fiscal Year End and Member Allocation										
		2017-18								
Member Entity, CIP Alloc.	Remaining	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total	
Belmont	9.45%	\$2.84	\$12.64	\$17.72	\$12.55	\$3.12	\$2.45	\$2.50	\$1.11	\$54.92
Redwood City	48.57%	14.62	64.94	91.09	64.51	16.01	12.57	12.85	5.70	282.30
San Carlos	15.14%	4.56	20.24	28.39	20.11	4.99	3.92	4.01	1.78	88.00
West Bay SD	26.84%	8.08	35.89	50.34	35.65	8.85	6.95	7.10	3.15	156.00
TOTAL	100.00%	\$30.10	\$133.71	\$187.54	\$132.81	\$32.96	\$25.89	\$26.46	\$11.74	\$581.22
<i>Prior LRF's Assumption:</i>		<i>\$27.32</i>	<i>\$163.23</i>	<i>\$146.43</i>	<i>\$76.60</i>	<i>\$23.22</i>	<i>\$43.95</i>	<i>\$47.88</i>	<i>\$18.40</i>	<i>\$547.03</i>



The majority of anticipated CIP costs can be attributed to replacement of the aging conveyance system infrastructure, namely, the RESCU program. RESCU is comprised of 14 projects, for which the combined remaining expenditures is approximately \$440 million as of January 2018. These projects include replacement of the influent force main with a gravity pipeline, construction of a receiving lift station, screening and grit removal (collectively, “headworks”), peak flow and storm water handling facilities, influent connector pipeline, and replacement / rehabilitation of the pump stations. The environmental review for RESCU is complete, design has commenced, and construction is anticipated to begin in early calendar year 2018.

As construction is completed, fixed assets associated with each Member Entity will increase by their allocable percentages. The largest projects include the Gravity Pipeline, Front of Plant Facilities, and Pump Stations. Combined, these three elements require capital expenditures greater than \$100 million for three consecutive years.

Cash Reserves Policy

In 2013, the SVCW Commission adopted a cash reserves policy that protects its fiscal solvency and funds future long term capital needs. The policy describes the goals and amounts intended to be held in reserves. Each year during the budget process, SVCW reviews reserve balances and adjusts as needed. SVCW debt reserves mitigate the negative impact of revenue shortfalls from economic fluctuations, to fund unforeseen expense requirements, to provide stable rates for member entities, and to help fund future long-term capital needs.

- The Operating Reserve must be maintained at a minimum balance of 10% of the approved Operating and Pay-go Capital Budget, plus \$1 million. This fund allows for continued operation in times of local, regional state, or national crisis or for unbudgeted, unexpected operational, maintenance or capital expenses approved by the SVCW Commission. As of December 31, 2017 the amount held in this reserve was \$3.5 million.
- The Capital Improvement Program Reserve Fund goal is to accrue funds equal to the annual calculated depreciation of SVCW facilities to meet the long term needs of replacing capital assets when their useful life has been met. This will ultimately allow most major expenses in the future to be paid for on a pay-as-you go basis and limit the need for borrowing. Per policy, a minimum of \$1 million is added to the Capital Improvement Program Reserve Fund each fiscal year through fiscal year 2020-21, after which it shall follow prescribed increases until the annual contribution equals annual depreciation. As of December 31, 2017 the CIP reserve was \$16.6 million.
- Stage 2 Capacity Reserve is utilized to pay for capital projects that increase the treatment capacity of SVCW facilities. This fund is a pay as you go fund that derives income from fees paid by new customers to buy capacity for the use of SVCW facilities. Projects that enhance capacity will be built when there are adequate cash reserves to fund the projects if needed to accommodate additional flow or loadings or at the discretion of the SVCW Commission. As of December 31, 2017 the amount held in this reserve was \$9.8 million.

Debt Policy

SVCW adopted a debt policy in 2017 that considers intergenerational equity between residents, strives to achieve the lowest possible cost of capital, and mitigates market and credit risk. Appropriately structured, the debt policy attempts to assign capital costs between current ratepayers and future generations.

Significant capital acquisitions can be funded through traditional bonds or alternative financing mechanisms such as government loans (e.g. SRF and WIFIA) and/or public/private partnerships.

Long term financings are structured to minimize transaction-specific risk and total debt portfolio risk to SVCW and its Member Entities.

SVCW debt must comply with all laws, legal agreements, contracts, best practices, and adopted policies related to debt issuance and management, including disseminating, in a timely manner, disclosure information concerning SVCW's and SVCW's Member Entities' financial condition. It must also follow sound procurement practices to avoid conflicts of interest.

SVCW debt promotes cooperation and coordination with all stakeholders in the financing and delivery of services by maintaining cost-effective access to capital markets through prudent debt management. This includes integrating debt policies with the operating and capital budgets, the multi-year CIP, the Long Range Financial Plan, and other financial goals. SVCW must also maintain good investor relationships through the timely dissemination of material financial information to maintain the highest practical credit rating and ensure efficient access to capital markets.

Long-term debt financing is not used to fund operating costs or operating deficits of SVCW. The principal types of municipal debt instruments employed by SVCW to finance long-term capital projects are SRF Loans and Wastewater Revenue Bonds. Such instruments may be refunded by the issuance of refunding obligations for economic savings and/or restructuring considerations.

Short-term debt has terms to maturity of less than five years and may be issued to provide financing for the acquisition and/or construction of long-lived capital projects that could otherwise be funded by long-term debt financing described above. This includes commercial paper notes that are issued to provide interim project financing, Bond Anticipation Notes which may have a final maturity of not more than five years and are issued in anticipation of the issuance of wastewater revenue bonds, and a short-term line of credit not to exceed five years.

Investment Policy

SVCW has adopted a policy to invest monies not required for immediate expenditure. The policy establishes a standard of care to ensure investments are made with the appropriate considerations of capital safety, liquidity, and yield. The investment portfolio is diversified such that losses, if any, on particular securities are offset by the revenue generated from other investments. The portfolio is also kept sufficiently liquid to meet the operating and capital needs of SVCW. Within these two constraints, as well as in accordance with California Government Code Section 53601 through 53686, the investment portfolio is designed to attain the market rate of return after consideration is given to safety and liquidity.

SECTION 3 – MODELING ASSUMPTIONS

SVCW has developed a Debt Model (the Model) to project debt service costs associated with the Capital Improvement Plan. Currently there is approximately \$581 million worth of capital projects to be funded over the next eight years. The Model allows SVCW to produce multiple funding scenarios that compare debt service costs at aggregate and Member Entity levels. The Model also optimizes variables by considering the impact of using cash, longer repayment terms, caps on debt service levels, deferred repayment, and changes in interest rate assumptions.

For each change in assumption, the Model displays total aggregate debt service, maximum aggregate annual cost, average annual debt service cost, weighted average cost of capital and weighted average CIP repayment year, among a few other debt summary outputs. Additionally, the Model shows the height and length of the “plateau” of this plateau, a critical consideration for members’ sewer rates. Finally, the Model also compares efficiency versus affordability of financing the debt by determining the length of each repayment period and financing rates.

Debt Structure

The Model generated and compared multiple debt financing scenarios to fund the total CIP by comparing interest rates and average costs per year. The flexibility of the Model allows for changing multiple assumptions, including interest rates, the timing and structure of government loan or bond repayments, and the mix of financing methods such as government loans or wastewater revenue bonds.

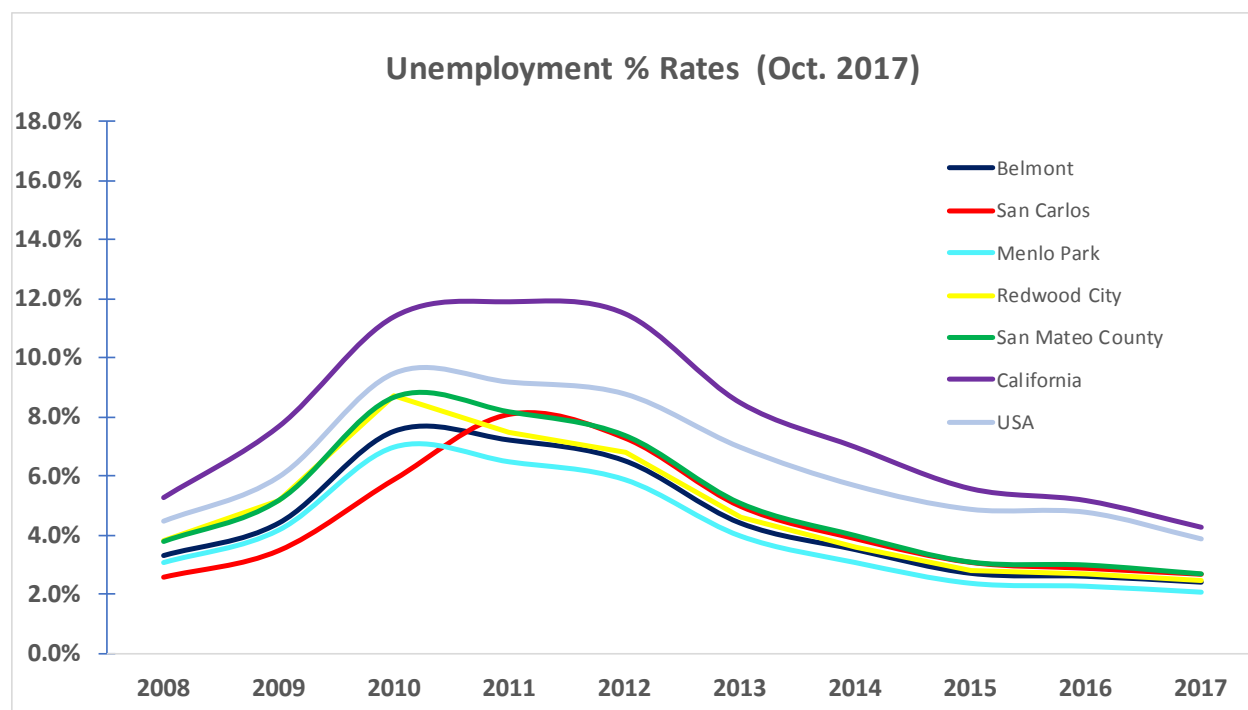
While the availability of government loan programs like SRF and WIFIA is uncertain, these loans are attractive for their low interest rates and traditional structures. Both have a similar structure as revenue bonds: thirty-year amortization and level debt service, but the SRF interest rate is set at half the California General Obligation Bonds rate while the WIFIA program is at the Treasury rate plus a few basis points. For example, tax-exempt interest rates in the current AAA bond market for a thirty-year maturity were approximately 2.81% as of January 26, 2018; or approximately 101 basis points higher than SVCW’s most recent SRF loan of 1.80%. Including the additional execution costs of a publicly offered debt issue, SRF Loans would clearly be a cost-effective strategy if they were available.

Economic Factors

Sewer revenues are somewhat influenced by the strength of the economy and other financial indicators. SVCW-estimated operating costs and the timing of CIP expenditures assume neither a significant downturn nor expansion in the San Francisco Bay Area economy. General economic conditions are comprised of many different factors; but sewer revenues are likely influenced by only a few factors. This report therefore focuses on six different broad factors that are good indicators of a strong economic environment: unemployment, assessed property valuation, taxable sales, income (measured by effective buying income and median household income), and interest rates.

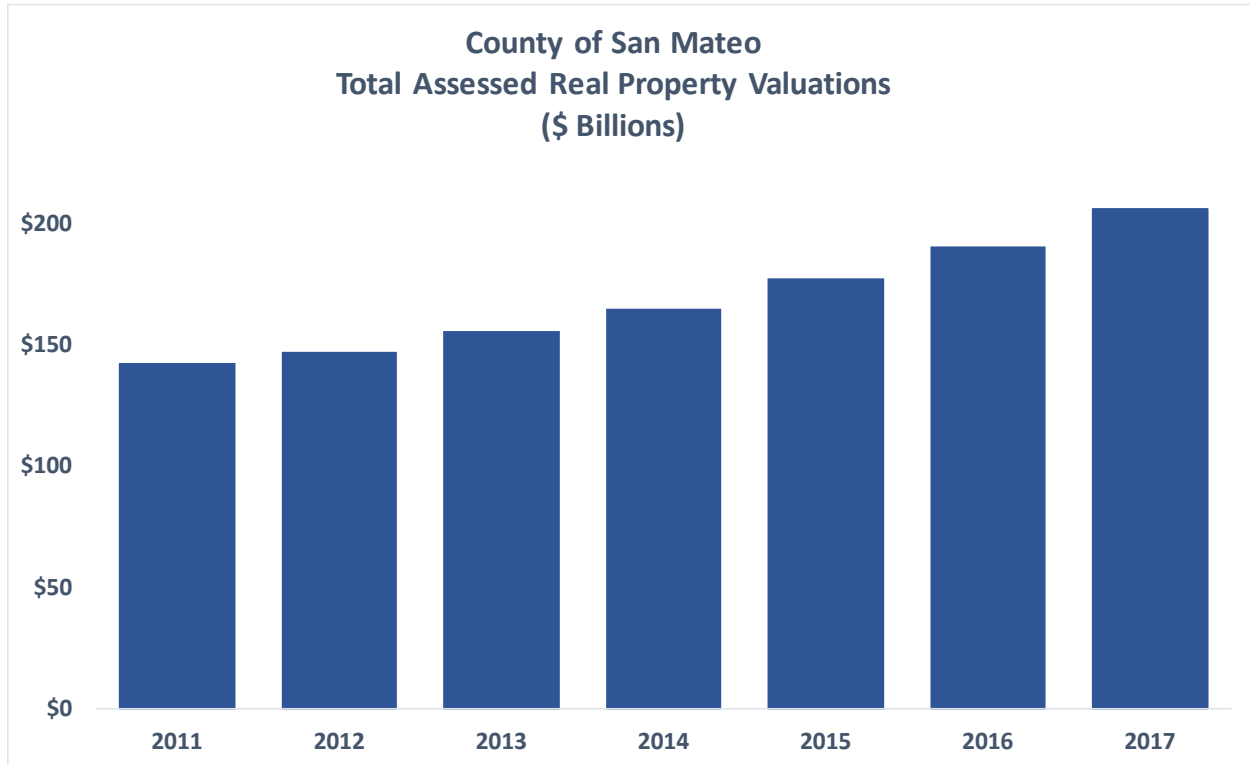
Unemployment

Reflective of the Bay Area's strong economy, recent 2017 data from the United States Bureau of Labor Statistics shows unemployment rates for San Mateo County at 2.7%, significantly lower than California and National rates, respectively. The cities of San Carlos, Redwood City, Menlo Park and Belmont show similarly low rates.



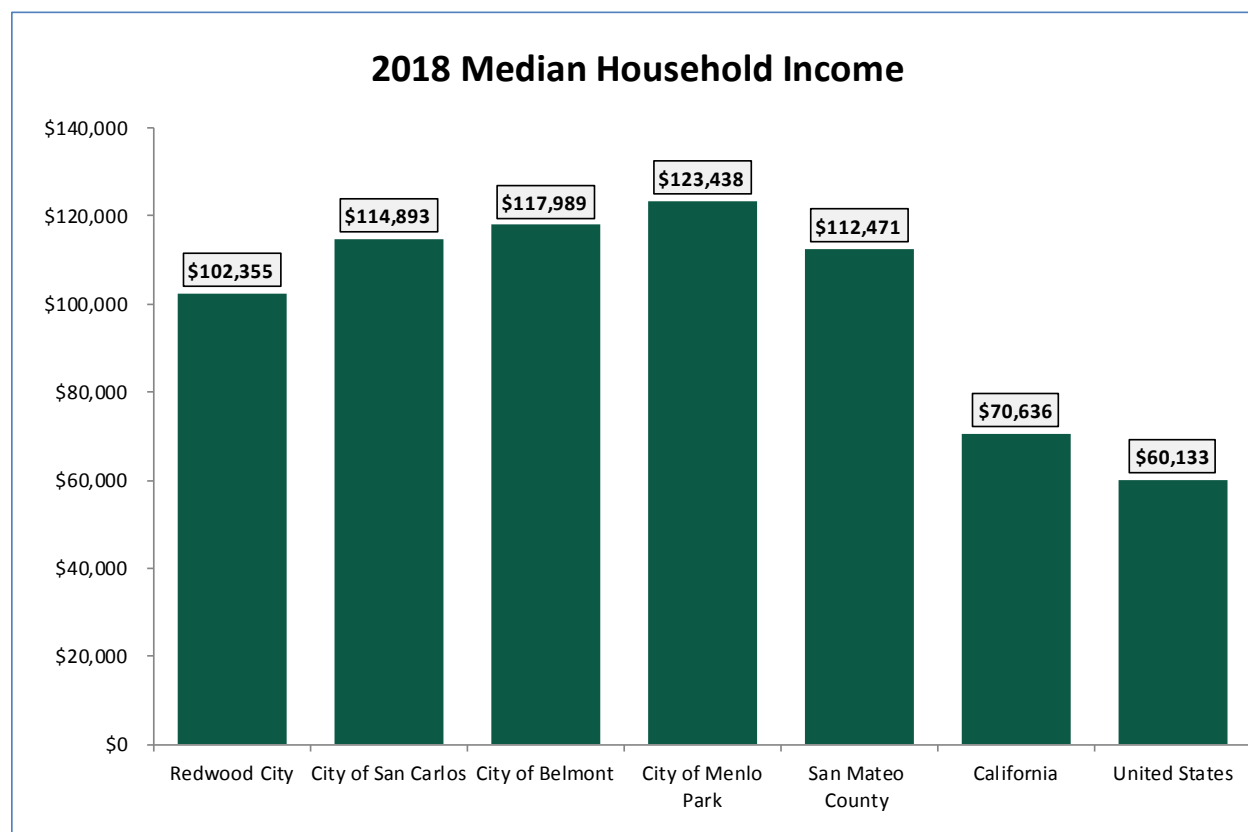
County Assessed Valuations

San Mateo County has approximately \$206 billion in total assessed real property valuation, an increase of \$15 billion (or 7.9%) from the previous year.



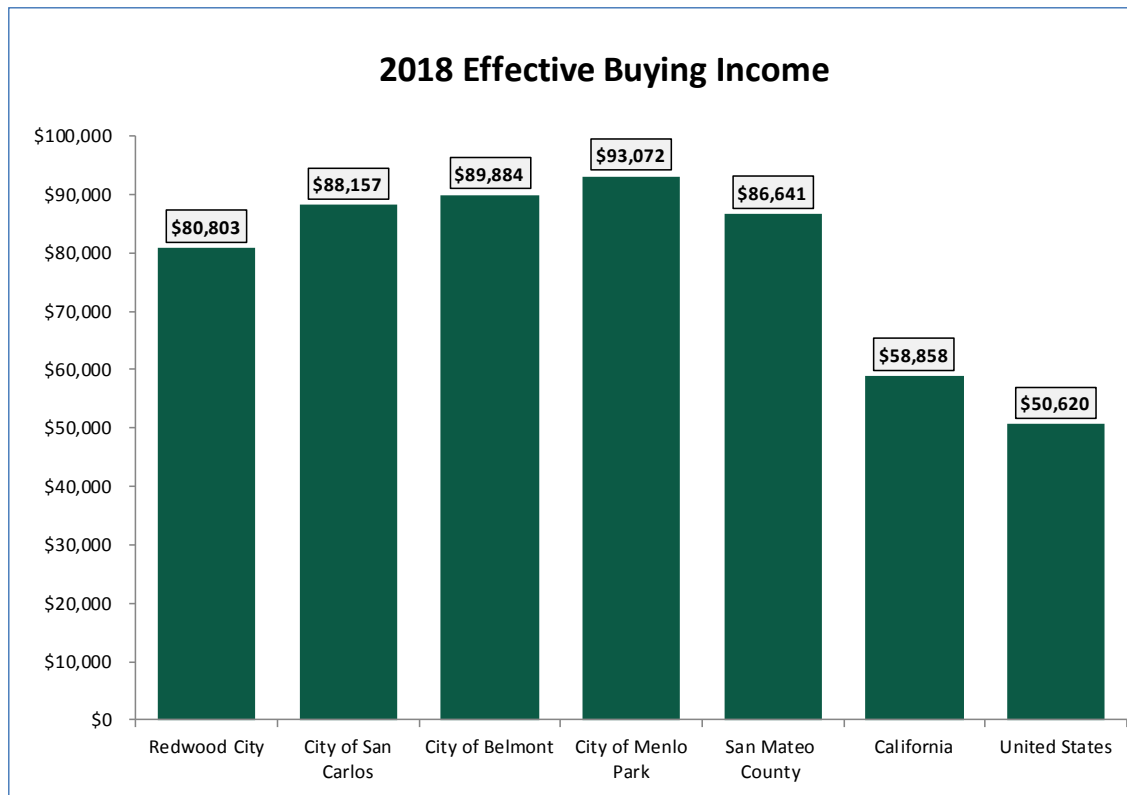
Median Household Income

The median household incomes and effective buying incomes are consistently above the State and National income rates for San Mateo County, City of Belmont, City of San Carlos, City of Menlo Park and Redwood City. Note that, for all four Member Entities, Median Household Income increased since 2015. Public 2017 economic data shows that San Mateo County is 187 percent and 159 percent of the Nation's and State's median household income, respectively.



Effective Buying Income

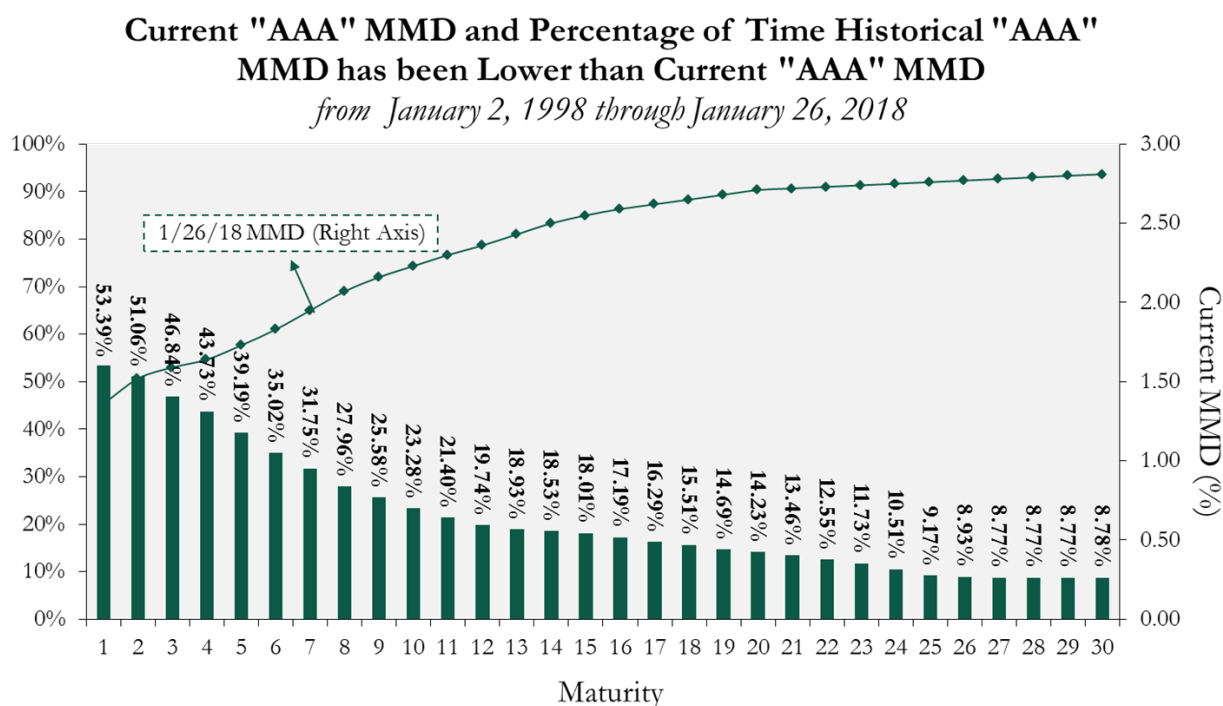
The Communities served by SVCW show high effective buying income levels in comparison to National and State medians. The Effective Buying Income is the amount of a consumer's disposable income; it reflects the money consumers have to spend after taxes. The below chart shows that SVCW communities have Effective Buying Incomes of \$80 thousand to \$90 thousand, which is 160 percent to 184 percent of the National levels, and 137 percent to 158 percent of California levels.



Interest Rates

Based upon market conditions, every financing tool has projected interest rates depending on the type of the debt whether it is fixed or variable. All SRF loans are projected at 2.50%. The fixed rate bonds have a projected interest rate of 4.00% and 4.5% for bonds financed in 2020 and 2021 or later, respectively. The Model uses a total projected variable rate of 3.40% inclusive of annual liquidity fees. At present, tax-exempt rates have risen dramatically from their near historical lows in July 2016 across the yield curve.

The table below provides tax-exempt interest rates for the Municipal Market Index as of January 26, 2018 and compares current rates to historical rates by term. The data demonstrates that interest rates, while near historical lows throughout the yield curve, were lower historically in the shorter maturities than in the later years, i.e., years 20 through 30.

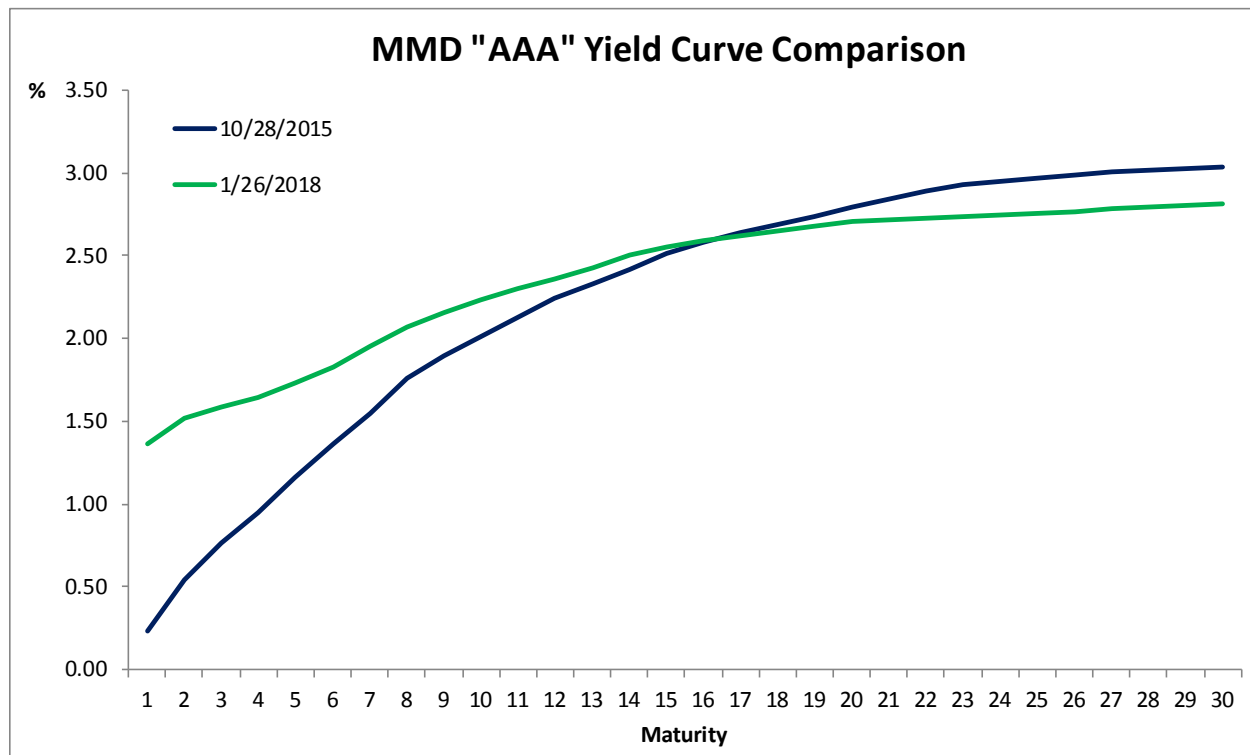


Source: Thomson Municipal Market Monitor

The two yield curves shown below represents the interest rates for the maturity years 1 - 30 for October 28, 2015 (the sale date of SVCW's last Bond issuance) in comparison to January 26, 2018. The most notable change is the flattening of the yield curve since 2015, as 2018 short-term rates in 1 to 10-year maturities have risen sharply while longer maturities have fallen.

Until 2016, slow national economic recovery prompted central banks to keep interest rates low to spur economic recovery. The Federal Reserve increased the Fed Funds rate by ¼ percent three times since and is expected to raise rates three additional times during 2018. However, with

interest rates still near historical lows it remains an advantageous time to finance projects as recommended by the Plan.



Source: Thomson Municipal Market Monitor

Interest earnings on Project Funds and Reserves:

It is estimated that funds held by SVCW related to the CIP, including reserve funds required by the SRF Loan program, will receive investment earnings of 1.5% annually over the long term. For the immediate future, short-term rates are expected to rise due to the Federal Reserve's action in December.

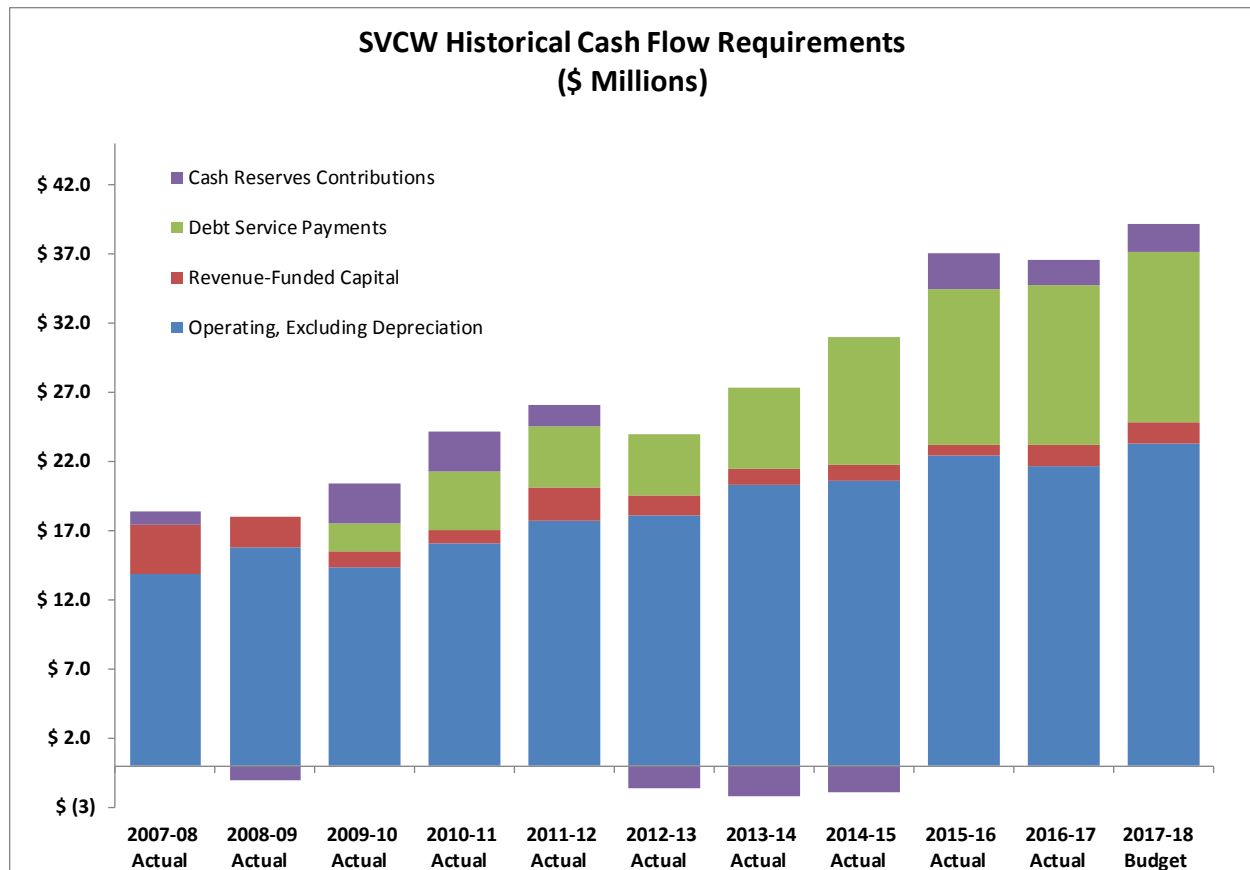
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SECTION 4 – HISTORICAL FINANCIALS

Historical Cash Flow Requirements

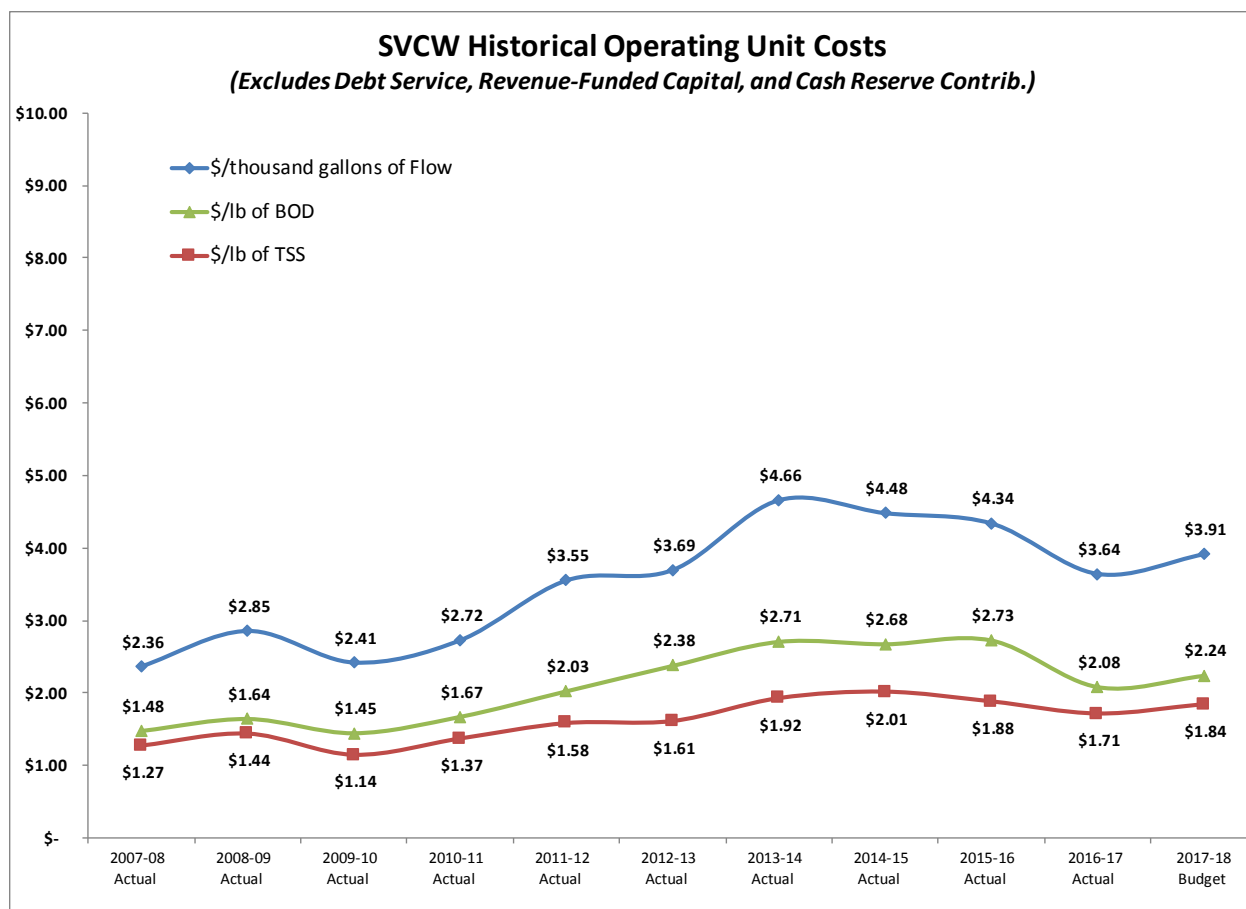
Total Cash Flow Requirements

SVCW annual cash flow requirements from Members have doubled over the past decade, primarily due to higher debt service payments needed to finance its CIP.



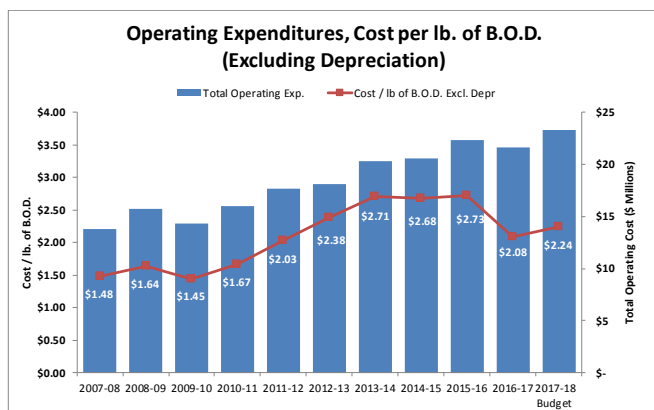
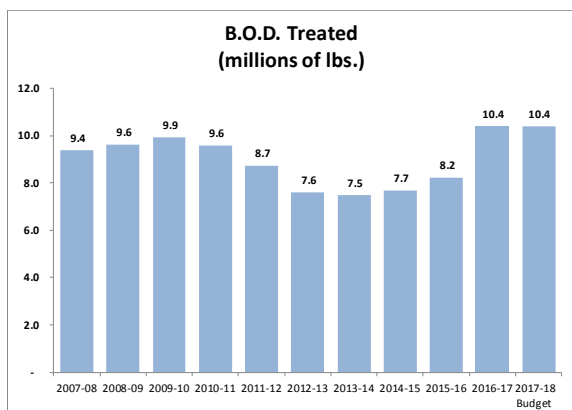
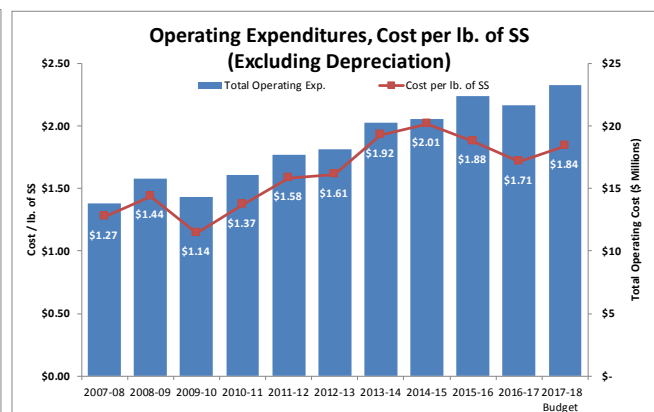
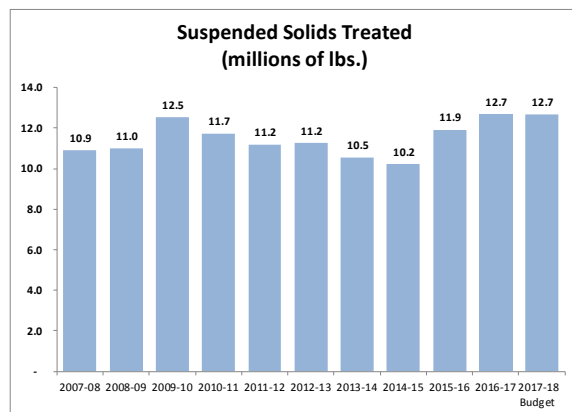
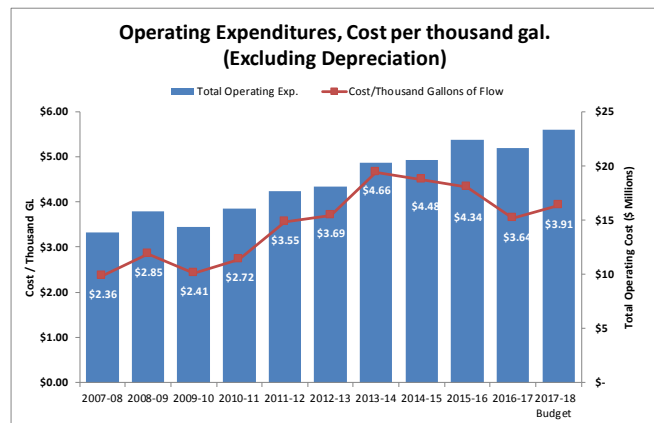
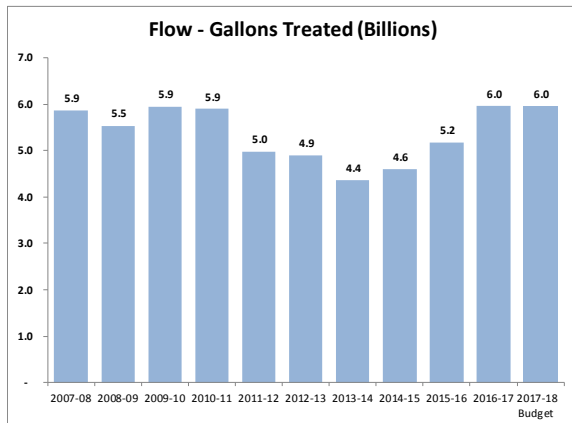
Historical Unit Costs

When isolated to only Operating Expenditures (excluding Depreciation), SVCW historical operating unit costs have increased since 2007-08 repair plans were initiated, which included ordinary inflationary pressure, adding Maintenance staff, and establishing an Engineering Division to develop and manage a CIP.



In addition to the change in wastewater flows caused by droughts, the characteristics of the wastewater stream have recently changed as local communities completed housing and commercial development. Both Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS) were near all-time highs in fiscal years 2016-17 and 2017-18. The following charts provide a side-by-side comparison of operating volumes and unit cost trends.

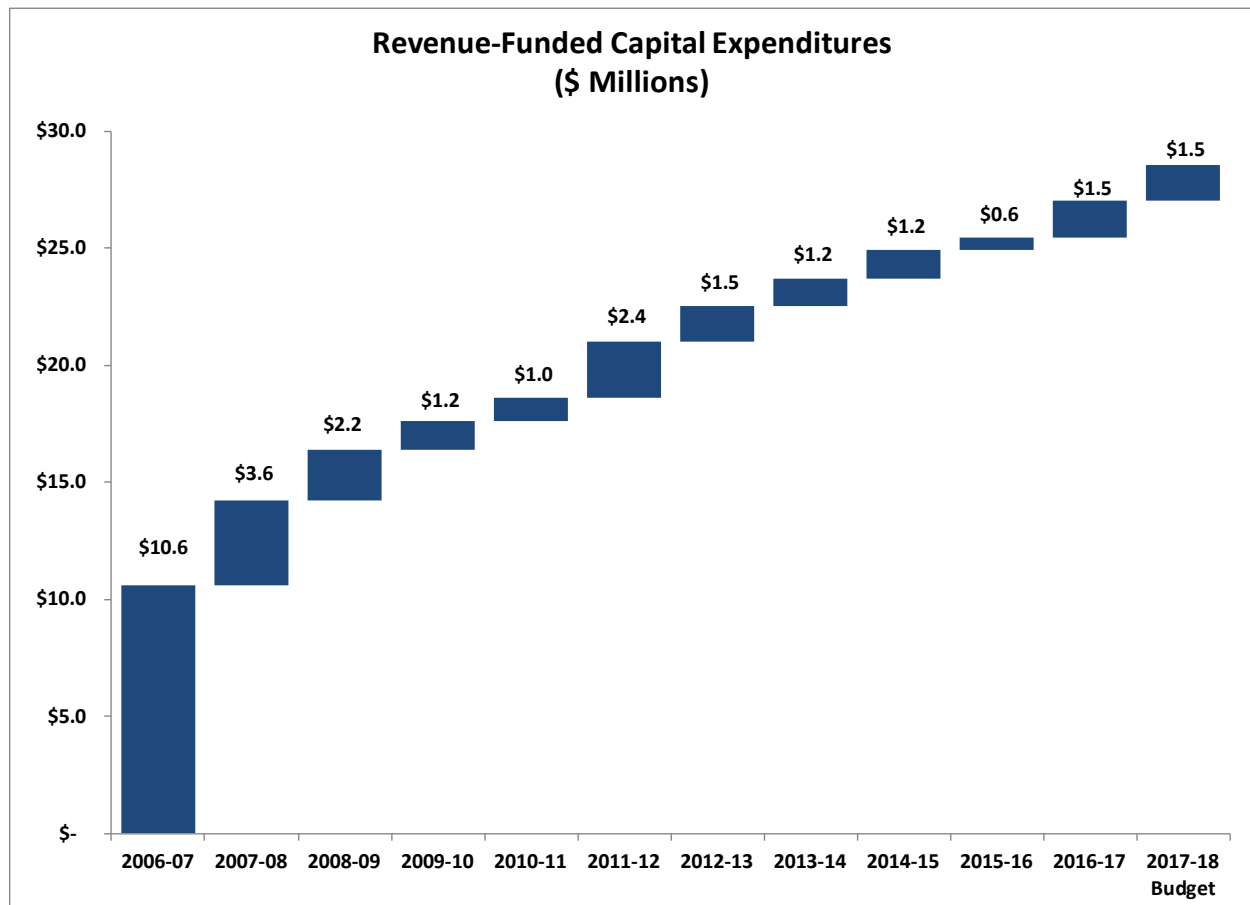
Another influencing factor on unit costs is volatility of operating volumes (Flow, Biological Oxygen Demand, and Total Suspended Solids). Drought conditions from 2011 to 2016 contributed to a rise in Unit Costs, which afterwards returned to normal year levels in 2017. These Unit Costs are defined as Operating Cost per thousands of gallons treated, Operating Costs per pound of TSS, and Operating Costs per pound of BOD.



Revenue-Funded Capital Expenditures

Revenue-Funded Capital Expenditures are for capital projects that are generally below \$1 million and completed within one year. Revenue-funded capital projects may include minor construction, purchase of vehicles or heavy equipment, maintenance repairs that improve an asset's useful life, as well as planning studies or preliminary engineering analysis for major capital improvements. Due to their relatively minor cost, it is appropriate to fund these items using cash rather than long-term debt.

Since 2006-07, SVCW has spent approximately \$27 million on such Revenue-Funded Capital. Prior to formally adopting the Capital Improvement Program in fiscal year 2007-08, Member Entities made relatively large cash contributions to address SVCW’s immediate capital project needs. Since 2008-09, however, SVCW has averaged \$1.4 million annually in Revenue-Funded capital expenditures.



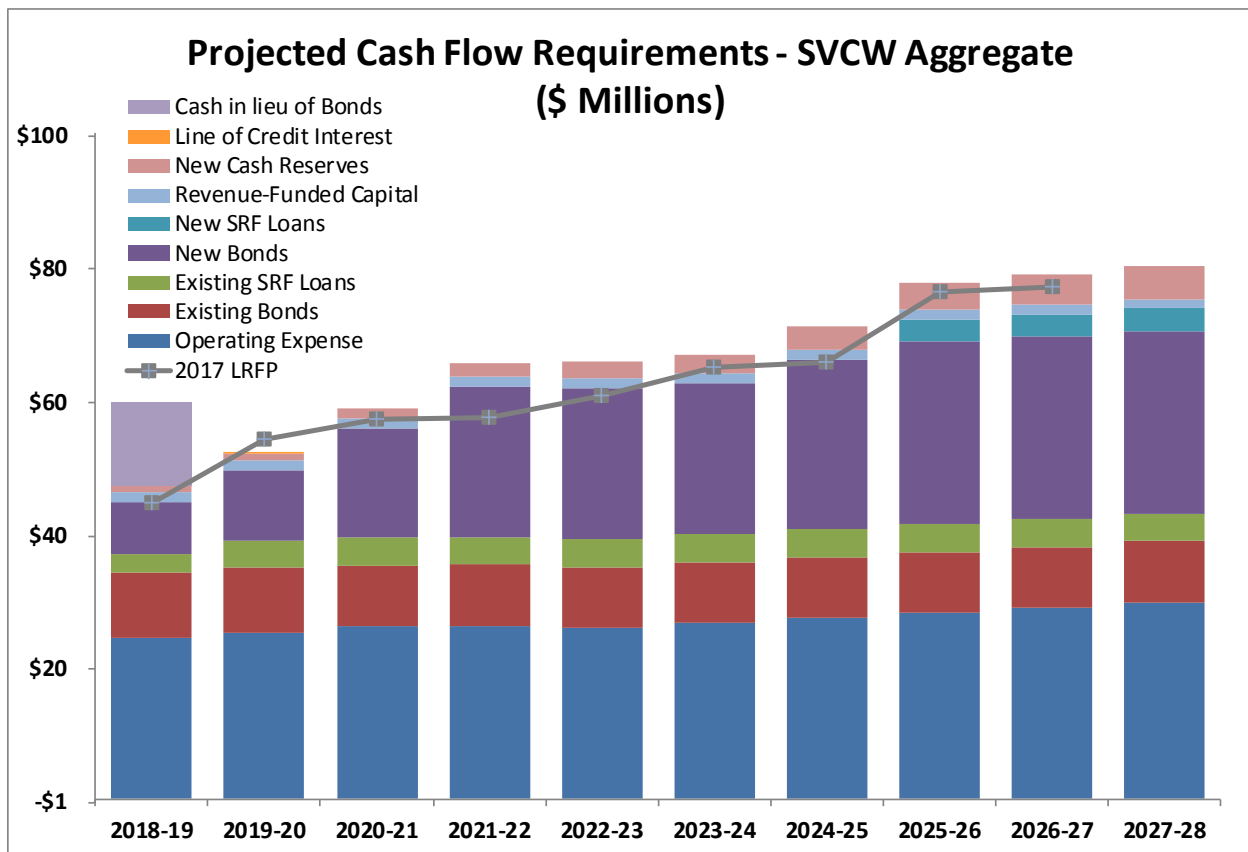
Cash Reserves

The SVCW Commission has adopted cash reserve policies that document the goals and amounts intended to be held in reserves. Each year, the SVCW budget process reviews reserve balances and makes adjustments necessary to meet the policy. In 2016-17, \$1 million was contributed to the Capital Improvement Program Reserve.

SECTION 5 – TEN-YEAR FINANCIAL PROJECTIONS

In fiscal year 2018-19 SVCW anticipates total expenditures will be \$47 million (excluding cash contributions in lieu of Bonds by the City of Belmont) for all costs of operations, debt service, revenue-funded capital, and reserve contributions. This figure is anticipated to grow to \$80 million over ten years:

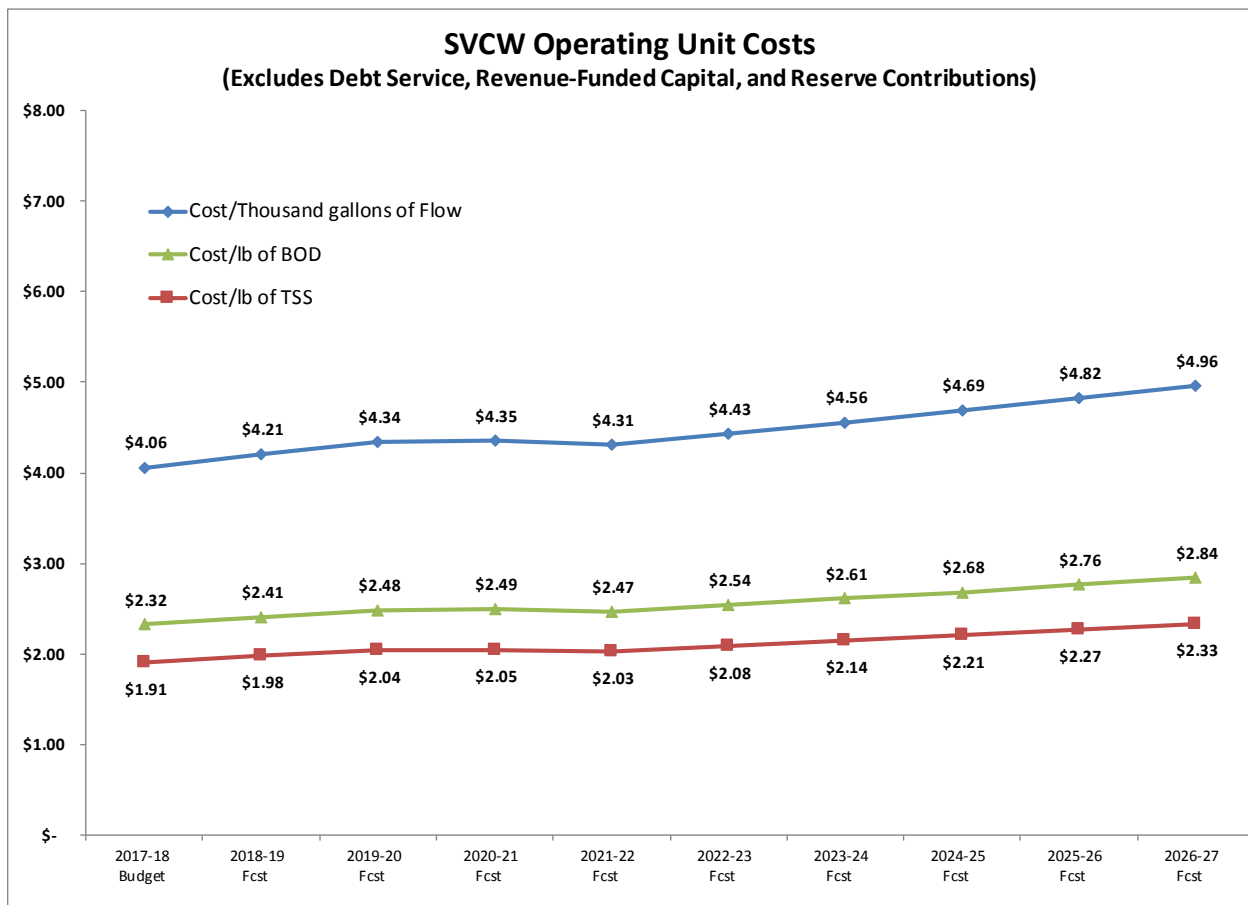
Projected SVCW Cash Flow Requirements - Aggregate (\$ Millions)										
Description	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
Operating Expense	\$ 24.16	\$ 25.04	\$ 25.82	\$ 25.92	\$ 25.64	\$ 26.38	\$ 27.13	\$ 27.91	\$ 28.71	\$ 29.52
Existing Bonds	9.88	9.64	9.20	9.19	9.19	9.18	9.19	9.17	9.16	9.16
Existing SRF Loans	2.63	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16
New Bonds	7.82	10.57	16.36	22.56	22.56	22.57	25.46	27.47	27.47	27.47
New SRF Loans	-	-	-	-	-	-	-	3.27	3.27	3.27
Line of Credit Interest	0.07	0.13	-	-	-	-	-	-	-	-
Cash in lieu of Bonds	12.64	-	-	-	-	-	-	-	-	-
Revenue-Funded Capital	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
New Cash Reserves	1.00	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
TOTAL	\$ 59.69	\$ 52.04	\$ 58.52	\$ 65.33	\$ 65.54	\$ 66.78	\$ 70.94	\$ 77.48	\$ 78.77	\$ 80.09



Operating Expenditures

Operating expenses will increase by approximately 4 percent annually until 2021-22, when they are expected to decline as benefits derived from a food waste-to-energy project are realized. Additionally, the completion of automation projects in 2020-21 facilitates a transition to a single daily work shift, producing subsequent annual savings of up to \$1.2 million once completed over a 3-year period.

SVCW Operating Expenditures (\$ Millions)											
Description	2017-18 Budget	2018-19 Forecast	2019-20 Forecast	2020-21 Forecast	2021-22 Forecast	2022-23 Forecast	2023-24 Forecast	2024-25 Forecast	2025-26 Forecast	2026-27 Forecast	2027-28 Forecast
Personnel	\$ 14.8	\$ 15.4	\$ 16.0	\$ 16.7	\$ 17.3	\$ 17.8	\$ 18.3	\$ 18.8	\$ 19.3	\$ 19.8	\$ 20.3
Utilities	1.8	1.8	1.9	1.7	1.8	1.9	1.9	2.0	2.0	2.1	2.1
Administrative Costs	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
Equipment & Supplies	2.6	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.3	3.4	3.5
Chemicals	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.9
Professional Services	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2
Contractual Services	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.2	2.2
Regulatory and Training	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Total Expenditures	\$ 23.9	\$ 24.8	\$ 25.7	\$ 26.4	\$ 27.4	\$ 28.1	\$ 28.9	\$ 29.8	\$ 30.6	\$ 31.4	\$ 32.3
Less Misc. Revenue	(0.6)	(0.6)	(0.6)	(0.6)	(1.5)	(2.5)	(2.6)	(2.6)	(2.7)	(2.7)	(2.8)
Net Operating Expend.	\$ 23.3	\$ 24.2	\$ 25.0	\$ 25.8	\$ 25.9	\$ 25.6	\$ 26.4	\$ 27.1	\$ 27.9	\$ 28.7	\$ 29.5



Debt Service Structure / Annual Debt Service Payments

SVCW uses debt as necessary to fund its CIP. Through its Member Entities, SVCW has already funded or has received funding commitments of \$248.6 million for capital improvements. Sources of funds include Wastewater Revenue Bonds, Member Entity cash contributions, SRF Loans, and grants.

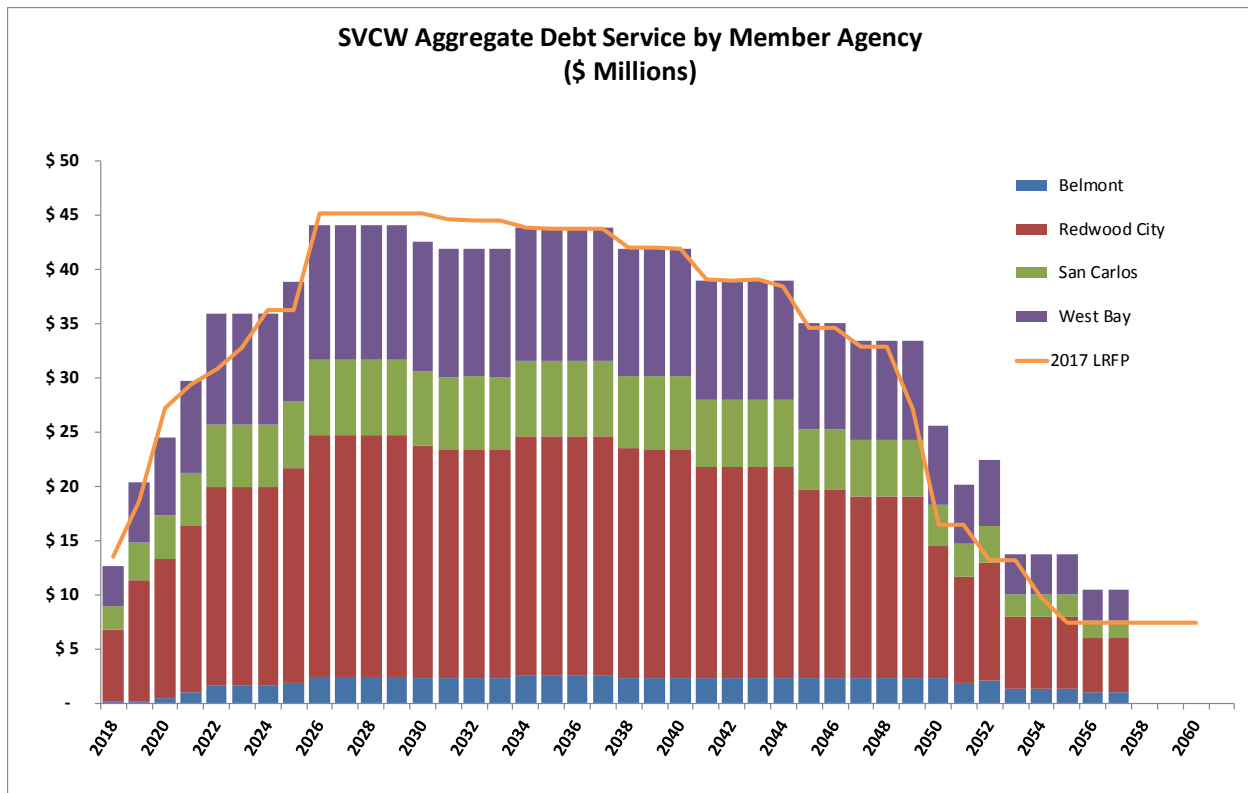
Source of CIP Funds to date (\$ millions)		
Description	All-in TIC / Interest	Proceeds
Bonds		
2008 Bonds	5.03%	\$ 10.01
2009 Bonds	5.12%	55.86
2014 Bonds	4.18%	65.54
2015 Bonds	3.75%	30.00
Subtotal - Bonds		161.41
Cash Contributions in lieu of Debt		
Belmont		17.24
Redwood City		10.00
Subtotal - Cash		27.24
State Revolving Fund Loans		
Control Building	2.60%	11.36
WWTP Improvements	1.80%	31.55
Conveyance Planning	1.60%	14.00
Subtotal - SRF		56.91
Grant Funding		
PG&E Cogeneration Grant		2.40
California Energy Commission		0.50
Subtotal - Grant Funding		2.90
TOTAL		\$ 248.46

Looking forward, approximately \$581 million of the CIP remains to be funded. This LRFPP recommends the following debt structure, as compared to the prior year:

Description	2017 LRFP	2018 LRFP
Remaining CIP to be funded	\$590 Million	\$581 Million
\$ Fixed Bonds / % of New Debt	\$213M / 36%	\$371M / 65%
\$ Variable Bonds / % of New Debt	\$65M / 11%	\$115M / 19%
\$ Government Loans / % of New Debt	\$296M / 50%	\$65M / 11%
Proceeds or Cash / % of New Debt	\$16M / 3%	\$30M / 5%
Weighted Average Cost of Capital %	3.65%	3.64%

The updated debt structure, compared to 2017 estimates, requires higher debt service payments over the next eight years; caused by increased funding from Bonds rather than governmental loans that would have allowed deferral of initial payments.

Beyond eight years, however, the estimated debt service is still slightly less than the 2017 LRFP estimates. With the goal of reducing the impact to Member Agencies' sewer rates, the proposed debt structure is to issue variable rate bonds to reduce the maximum annual debt service. Over the entire 44-year period displayed below, total aggregate debt service is now estimated at \$1.35 billion in nominal dollars, or \$16.8 million (in nominal dollars) more than the 2017 LRFP. If discounted to January 2018 dollars, this difference is valued at a Net Present Value of \$4.2 million.



SVCW Wastewater Revenue Bonds

Financing Agreements adopted between SVCW and its Member Entities obligate each of these agencies to make payments to SVCW for their respective allocable share of debt service. The City of Belmont has thus far not participated in SVCW Bond financing and is therefore not obligated to make debt service payments on bonds currently outstanding.

Existing bond debt service payments are \$9.2 to \$9.9 million and associated with issuances from 2009, 2014, and 2015. New Bond Debt service payments include a February 2018 issuance, two more fixed-rate issuances in 2019 and 2021, and a variable-rate issuance in 2020.

State Revolving Fund Loans

SVCW has thus far financed certain projects by entering into three separate sale-repurchase agreements with the State Water Resources Control Board (SWRCB). This program is funded from the California State Revolving Fund (SRF) program. The project funds, including any accrued interest, are repaid in annual installments commencing one year after construction.

Current SRF loan payments will peak at \$4.2 million. These loans financed the Control Building, certain Wastewater Treatment Improvements loans, and conveyance system planning. Note that the conveyance system planning loan is currently assumed to be a 10-year amortization period. If SVCW successfully secures another SRF loan for conveyance system construction, the planning loan may be combined into that future loan and amortized over a standard 30 years.

Future government loan assumptions include one new SRF loan, solely for the Nutrient Removal project, beginning in 2022.

Line of Credit

SVCW holds a \$30 million Line of Credit (LOC) to provide bridge financing for CIP projects. It remains a valuable tool to manage cash flow and to date has reduced overall borrowing costs. Specifically, the LOC furnishes interim cash flows between bond issuances or when SVCW awaits reimbursement of construction costs funded by the SRF program. When borrowing through SRF, SVCW pays for services and afterwards submits paid invoices to the state for reimbursement. Reimbursement generally takes 90 to 120 days and the LOC acts as a bridge loan during this period.

Revenue-Funded Capital Expenditures

SVCW anticipates investing approximately \$1.5 million annually in critical projects to maintain ongoing operations. These projects are purchased and may be installed and managed by staff, examples of which include vehicles, valves, pumps, motors, gear assemblies, technology devices, or maintenance equipment.

Cash Reserves Contributions

The table below shows the projected annual cash reserve contributions to the Capital Improvement Program Fund, its earnings, and the balances for the next ten fiscal years.

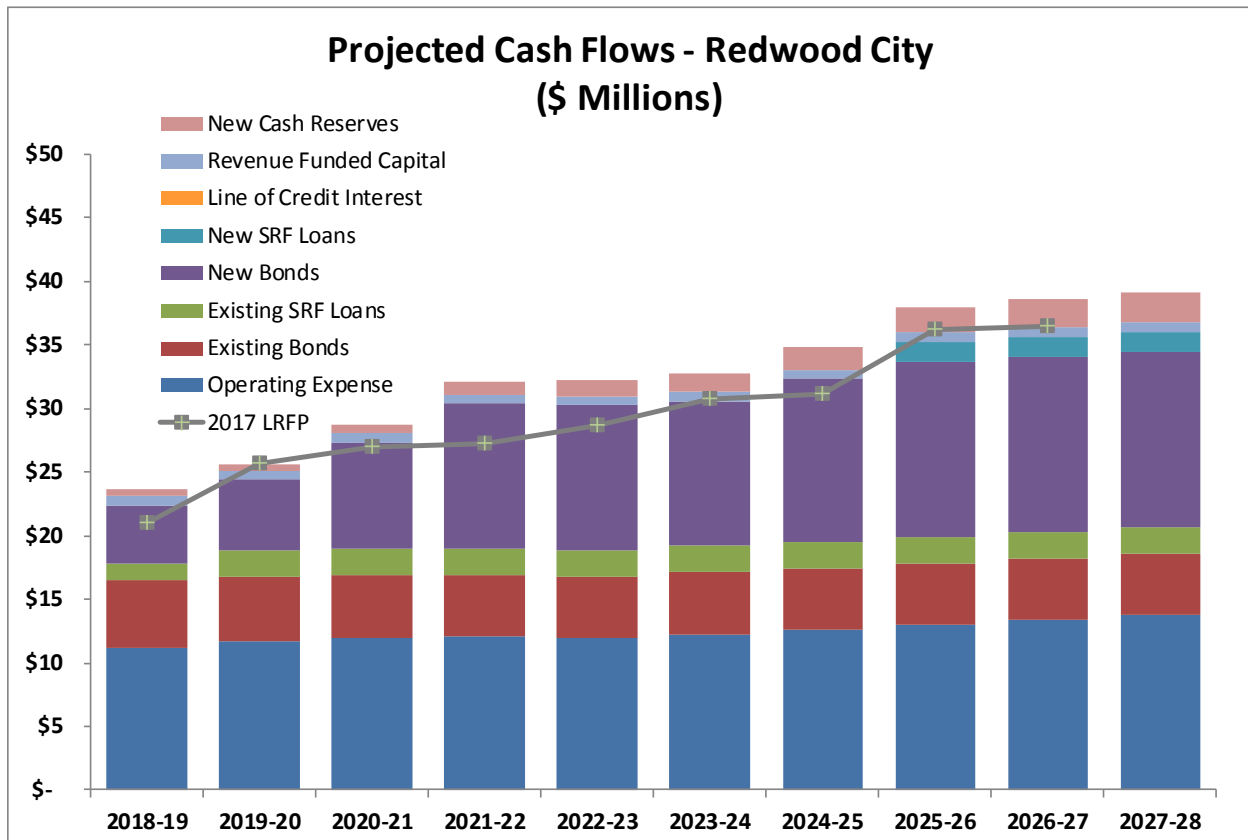
CIP Cash Reserves Forecast (\$ Millions)											
Description	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	
Beginning Balance	\$ 17.3	\$ 18.4	\$ 19.6	\$ 21.4	\$ 23.6	\$ 26.3	\$ 29.6	\$ 33.5	\$ 37.8	\$ 42.8	
Contributions	1.0	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	
Earnings	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	
Ending Balance	\$ 18.4	\$ 19.6	\$ 21.4	\$ 23.6	\$ 26.3	\$ 29.6	\$ 33.5	\$ 37.8	\$ 42.8	\$ 48.2	

Cash Reserve contributions follow SVCW policy at \$1 million contributed annually through fiscal year 2020-21, after which it increases annually by \$500 thousand until contributions match annual depreciation expense.

Total Cash Flow Projections by Member Entity

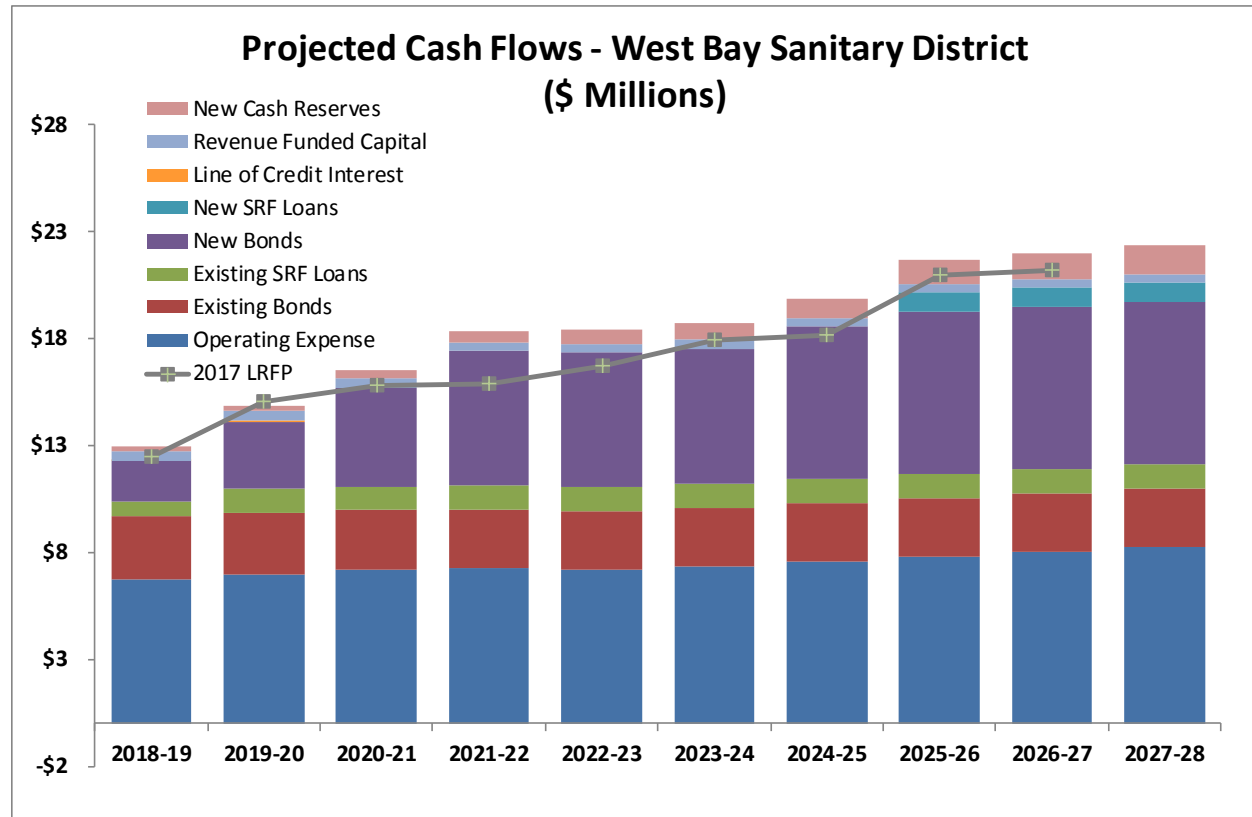
The following charts and tables describe the cash flow projections required for all SVCW expenditures. Each Member Entity is also provided with a detailed description for their own planning purposes.

Redwood City

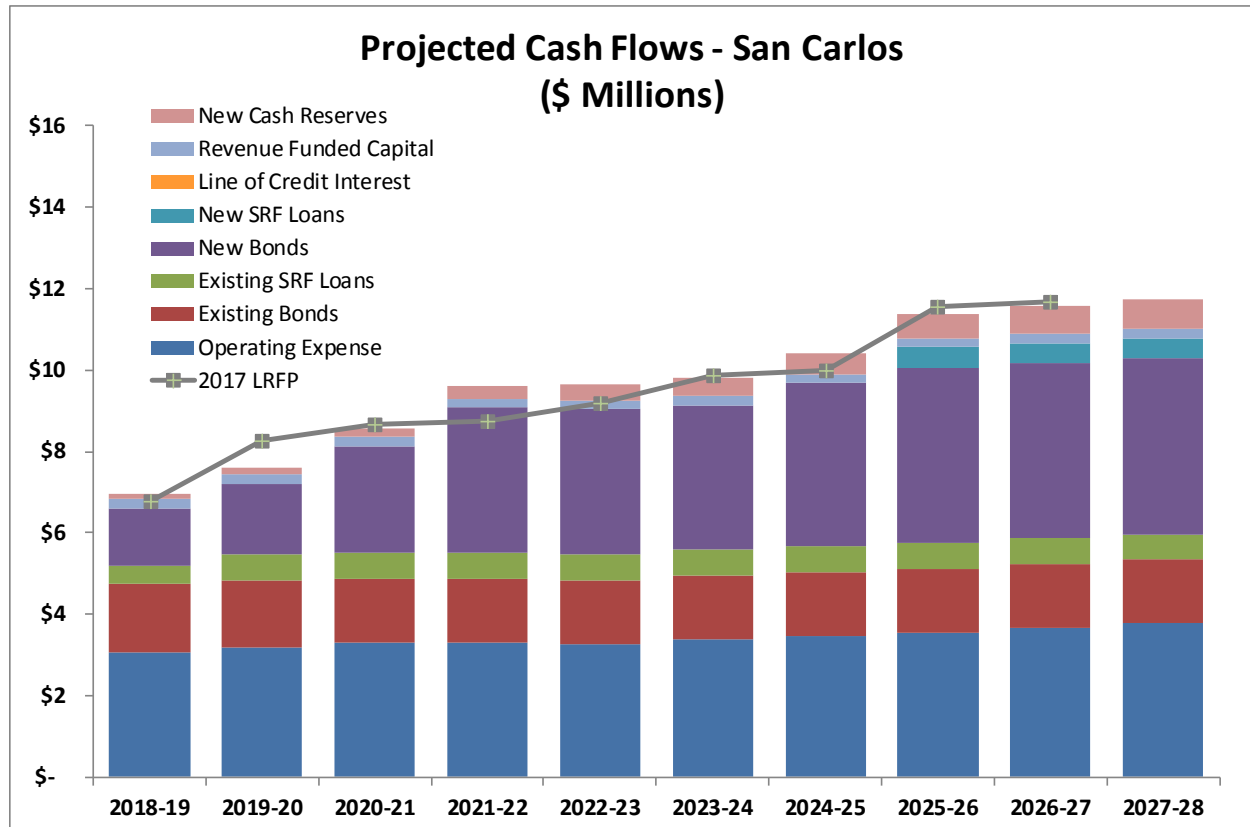


Projected SVCW Cash Flow Requirements - Redwood City (\$ Millions)										
Description	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
Operating Expense	\$ 11.23	\$ 11.64	\$ 12.00	\$ 12.05	\$ 11.92	\$ 12.26	\$ 12.62	\$ 12.98	\$ 13.35	\$ 13.73
Existing Bonds	5.26	5.12	4.87	4.86	4.86	4.85	4.85	4.85	4.85	4.85
Existing SRF Loans	1.32	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
New Bonds	4.56	5.57	8.38	11.39	11.39	11.39	12.80	13.78	13.77	13.77
New SRF Loans	-	-	-	-	-	-	-	1.59	1.59	1.59
Line of Credit Interest	-	-	-	-	-	-	-	-	-	-
Revenue Funded Capital	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
New Cash Reserves	0.49	0.49	0.73	0.97	1.21	1.46	1.70	1.94	2.19	2.43
TOTAL	\$ 23.58	\$ 25.60	\$ 28.76	\$ 32.06	\$ 32.17	\$ 32.75	\$ 34.75	\$ 37.92	\$ 38.54	\$ 39.16

West Bay Sanitary District



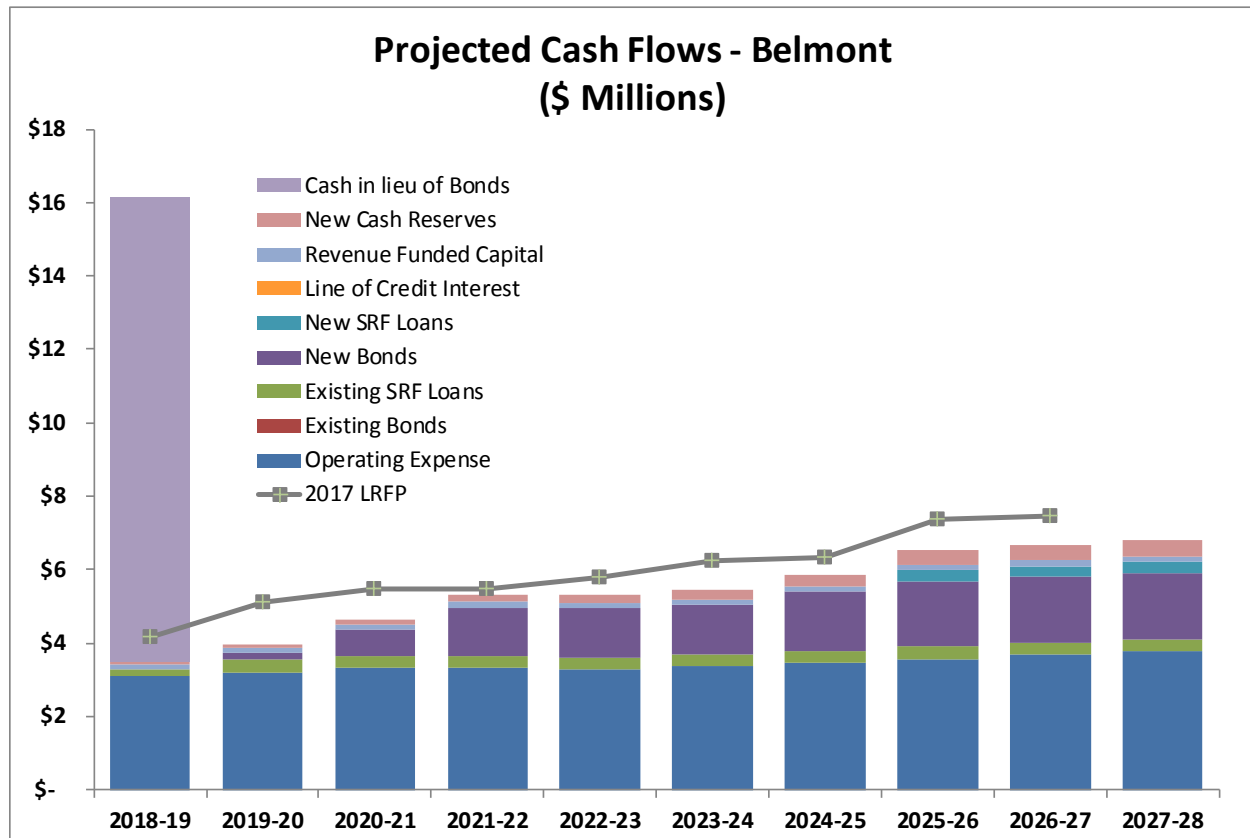
Description	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
Operating Expense	\$ 6.75	\$ 6.99	\$ 7.21	\$ 7.24	\$ 7.16	\$ 7.37	\$ 7.58	\$ 7.79	\$ 8.02	\$ 8.24
Existing Bonds	2.93	2.87	2.76	2.76	2.75	2.75	2.76	2.75	2.75	2.75
Existing SRF Loans	0.73	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
New Bonds	1.84	3.07	4.63	6.29	6.29	6.29	7.07	7.61	7.61	7.61
New SRF Loans	-	-	-	-	-	-	-	0.88	0.88	0.88
Line of Credit Interest	0.07	0.13	-	-	-	-	-	-	-	-
Revenue Funded Capital	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
New Cash Reserves	0.27	0.27	0.40	0.54	0.67	0.81	0.94	1.07	1.21	1.34
TOTAL	\$ 12.98	\$ 14.87	\$ 16.53	\$ 18.37	\$ 18.41	\$ 18.75	\$ 19.88	\$ 21.65	\$ 22.00	\$ 22.36



Projected SVCW Cash Flow Requirements - San Carlos (\$ Millions)											
Description	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	
Operating Expense	\$ 3.09	\$ 3.20	\$ 3.30	\$ 3.31	\$ 3.28	\$ 3.37	\$ 3.47	\$ 3.57	\$ 3.67	\$ 3.77	
Existing Bonds	1.68	1.64	1.57	1.57	1.57	1.58	1.57	1.56	1.56	1.56	
Existing SRF Loans	0.41	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	
New Bonds	1.42	1.74	2.61	3.55	3.55	3.55	3.99	4.29	4.30	4.30	
New SRF Loans	-	-	-	-	-	-	-	0.50	0.50	0.50	
Line of Credit Interest	-	-	-	-	-	-	-	-	-	-	
Revenue Funded Capital	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
New Cash Reserves	0.15	0.15	0.23	0.30	0.38	0.45	0.53	0.61	0.68	0.76	
TOTAL	\$ 6.97	\$ 7.60	\$ 8.58	\$ 9.60	\$ 9.65	\$ 9.82	\$ 10.43	\$ 11.39	\$ 11.57	\$ 11.75	

Belmont

Belmont has, to date, chosen to not participate in SVCW Bond issuances, including the 2018 Bond Issuance. This produces lower debt service payments for Belmont as compared to the 2017 LRFP, albeit the City of Belmont will need to draw from its own financing sources to contribute cash of approximately \$4.3 million in 2017-18 fiscal year and \$12.6 million in 2018-19.



Description	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
Operating Expense	\$ 3.09	\$ 3.20	\$ 3.30	\$ 3.32	\$ 3.28	\$ 3.38	\$ 3.47	\$ 3.57	\$ 3.67	\$ 3.78
Existing Bonds	-	-	-	-	-	-	-	-	-	-
Existing SRF Loans	0.18	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
New Bonds	-	0.20	0.74	1.33	1.33	1.33	1.60	1.79	1.79	1.79
New SRF Loans	-	-	-	-	-	-	-	0.31	0.31	0.31
Line of Credit Interest	-	-	-	-	-	-	-	-	-	-
Cash in lieu of Bonds	12.64	-	-	-	-	-	-	-	-	-
Revenue Funded Capital	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
New Cash Reserves	0.09	0.09	0.14	0.19	0.24	0.28	0.33	0.38	0.43	0.47
TOTAL	\$ 16.15	\$ 3.96	\$ 4.65	\$ 5.30	\$ 5.31	\$ 5.45	\$ 5.87	\$ 6.52	\$ 6.67	\$ 6.82

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SECTION 6 – SENSITIVITIES

Traditional risks to the efficient completion of large capital plans are unanticipated increases to inflation and interest rates. The risks of inflation and rising interest rates are outside the control of SVCW; however, strategies can be implemented to mitigate these risks. The Plan, for instance, assumes a 4% inflation factor in operating costs. Further, the interest rates utilized by the Model are conservative and generally based on historical averages and, as a result, are presumed to be higher than market rates.

To assess the impact of borrowing at interest rates higher than the conservative rates assumed in the recommendation, a sensitivity-analysis was conducted by increasing the weighted cost of capital by 50 basis points (0.50%). Such an increase would result in a greater debt service cost of (Net Present Value) \$28 million over the life of the debt issued.

Capital Improvement Program Adherence

The timing of the projects is considered achievable under present economic and operational assessments. Based upon the size of the CIP the cost is significant and the interest expense is also significant. Adhering to the timing of the CIP is singularly the most cost-effective strategy to minimize inflation and interest rate risks. As the regional economy continues to expand, costs will continue to rise. Delays to the CIP by one year will likely increase costs by approximately \$26.6 million based upon a construction cost inflation factor of 4%. SVCW believes its use of Progressive Design-Build project delivery methods will mitigate these inflationary risks.

Government Loan Availability

The SWRCB has secured \$57 million in SRF loans thus far. The low cost of these loans, combined with attractive repayment terms, increased the competition from other agencies. As a result, the SWRCB advised it is unable to meet its current demand for SRF loans. While SVCW continues to pursue SRF loans for the RESCU program and other WWTP improvement projects, it is unlikely that funding will be available. Future SRF loans, however, may again be available and therefore SVCW has assumed its \$65 million Nutrient Removal project may be funded via SRF loans.

SVCW also pursued a WIFIA loan from the Environmental Protection Agency in 2017 for the RESCU project. While it was not selected by the EPA, the 2018 application process again opens in the spring of 2018. Since SVCW believes it has a high-scoring project, it will resubmit its Letter of Interest. It is uncertain whether SVCW will be successful in pursuit of a WIFIA loan.

If government loans were to be available, estimates are that for every \$25 million borrowed in Governmental Loans, SVCW annual debt service would decline by approximately \$280 thousand or \$20 million (nominal value) over the loan's entire repayment term.

Inflation

Operating Expenditures - The LRFP includes inflationary assumptions of approximately 4% on operating costs. The Consumer Price Index (CPI) is a measure of the "average change in prices over time in a fixed market basket of goods and services" which translates to a guide for determining the prices on food, energy, fuel and other goods and services. CPI is a good indicator of how the economy holds up against inflation and surrounding economic changes.

Capital Expenditures – Construction costs of labor and materials continue to increase. While SVCW negotiates for best pricing on projects, the rise in material and labor costs will place upward pressure on the CIP. It is currently estimated that if capital projects were inflated by 1% point each year, the compounded inflationary impact would be \$20 million.

Interest Rates

It is impossible to predict interest rate levels or the timing of changes. What is known, however, is today's interest rates remain near historical lows. Since tax-exempt interest rates are already at historical low levels, a decrease in rates is unlikely. A more plausible outcome would be for the market to experience higher interest rates in the future.

Changes in interest rates would be somewhat mitigated with SRF Loan funding, since its rate is 50% of the State's public borrowing cost. Publicly issued debt, however, would bear the entire market increase with estimated rates.

If SVCW's Weighted-Average Cost of Capital was to increase by 50 basis points (or 0.5%), SVCW annual debt service payments (at its maximum aggregate point) would increase by \$2.15 million. Over the entire amortization term, the cost of this change in interest rates would be a Net Present Value of \$29 million. It should be noted, however, that both the SRF Loan interest rates and publicly issued bond rates assumed in the Model have a significant cushion versus the current market (e.g. a minimum of 0.67% higher than the recent 2018 Fixed Bond rate).

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SECTION 7 – SUMMARY

SVCW provides this Long Range Financial Plan as a recommendation and implementation strategy to fund the next decade of capital improvements. The Plan documents the analysis of possible alternatives. Due to the extensive nature and cost of the CIP, leveraging long term debt is the most practical funding method. Individual Members may of course determine that, for their own specific purposes, cash contributions may be appropriate.

Due to the historical lack of a sinking fund and cash reserves, the recommended debt strategy is in lieu of a pay-go cash strategy. Debt allows SVCW to distribute costs over the expected useful lives of constructed assets, and also provides fairness to Members' ratepayers by spreading costs across generations and facilitating moderate and consistent rate increases. In general, CIP funding sources include 1) Capital markets by issuing publicly traded revenue bonds; 2) Government loans through SRF and WIFIA programs when available; and 3) cash that has been accrued by the Members Agencies.

This LRFP's recommendations and its outcomes are for planning purposes. SVCW believes it is a reasonable forecast of expenditures over the next year, including the prudent recognition that the oversubscribed SRF loan program is unlikely to fund much of SVCW's capital needs. The LRFP includes comprehensive estimates of SVCW cash flow requirements, useful for Member Agencies as they consider budgets and analyze their sewer rates.

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**SHARED SERVICES AGREEMENT WITH CITY OF SAN MATEO FOR
OPERATION OF WASTEWATER TREATMENT FACILITIES**

ISSUE

Authorization for SVCW Manager to Negotiate and Sign a Letter of Intent with the City of San Mateo for Long-Term Operation of the City of San Mateo Wastewater Treatment Plant and Associated Facilities.

BACKGROUND

The City of San Mateo City Council recently authorized the City Manager to initiate a process to hire an outside firm to operate the City's Wastewater Treatment Plant and associated facilities. SVCW staff became aware of the authorization and believe it could be beneficial to SVCW, the City of San Mateo and the rate payers in both organizations to have SVCW provide the services the City is looking for. The SVCW Manager and San Mateo City Manager have a long-standing relationship and informal discussion was initiated.

DISCUSSION

Shared Services Agreements (SSA) between two local agencies for municipal services are a relatively common method of saving municipalities money by more broadly distributing many of the fixed costs of providing typical municipal services to the all residents of the communities being served and are statutorily authorized under Government Code Sections 54980-54983. While an SSA for fire, police or administrative/accounting services are common, it has not been a common agreement for utility services, however, there are agencies in the Bay Area that do provide utility services between agencies.

SVCW provides the ratepayers of the service area with high quality and cost-effective operation of the wastewater treatment system. For many years, the City of San Mateo has struggled to accomplish the same level of service due to the many other challenges interrelated to the operation of a city. One of those challenges is the need to pay their wastewater employees competitive rates with the wastewater industry.

As the City of San Mateo made the determination to proceed with investigating the contract operations of their wastewater treatment facilities, one major concern was the impact on their existing wastewater employees. The use of an SSA with SVCW would allow them to address that concern and still have the operations of their facilities operated under contract, with SVCW.

There are benefits of an SSA for SVCW as well. The most obvious is the ability to spread fixed overhead costs over a wider base. While this will not be a huge savings for SVCW, it will have a minor impact on rates in a downward manner since some management and administrative staff time will be shared with the San Mateo project. Another strong benefit is the impact related to water recycling and working as a regional solution with San Mateo rather than SVCW pursuing it as a stand-alone agency.

The SVCW Manager will present more detailed discussion and answer questions related to this work at the Commission Meeting on March 8, 2018

FINANCIAL IMPACT

There is minimal financial impact to approval of the proposed action. There will be the investment of some staff time to perform the investigation and due diligence process to determine if the SSA is truly a feasible solution for both parties and a small amount of legal review.

RECOMMENDATION

Move adoption of RESOLUTION AUTHORIZING SVCW MANAGER TO NEGOTIATE AND EXECUTE A LETTER OF INTENT RELATED TO THE LONG-TERM OPERATION OF THE WASTEWATER TREATMENT FACILITIES – CITY OF SAN MATEO

ADOPTION OF FISCAL YEAR 2018-19 ANNUAL OPERATING AND CAPITAL EXPENDITURES BUDGET

ISSUE

Presentation of the Fiscal Year 2018-19 Proposed Annual Operating and Capital Budget.

BACKGROUND

Prior to May 1 of each calendar year, Silicon Valley Clean Water (SVCW) must adopt an Operating and Capital Expenditures Budget (Budget) for the upcoming Fiscal Year. The Budget outlines revenues needed for operations, maintenance, administration and compliance monitoring activities. Furthermore, it describes additional cash flow requirements to meet capital projects, debt service, and cash reserves needs.

The long-term Capital Improvement Program (CIP) plan, originally developed in 2008 and most recently updated in October 2017, identified the funds needed for both capital replacement projects (depreciation) and system improvement projects. While this budget does not seek approval for the overall CIP, it does incorporate the long term impact of capital expenditures and proposes a funding strategy. This CIP funding strategy incorporates analysis from the 2018 Long Range Financial Plan update.

DISCUSSION

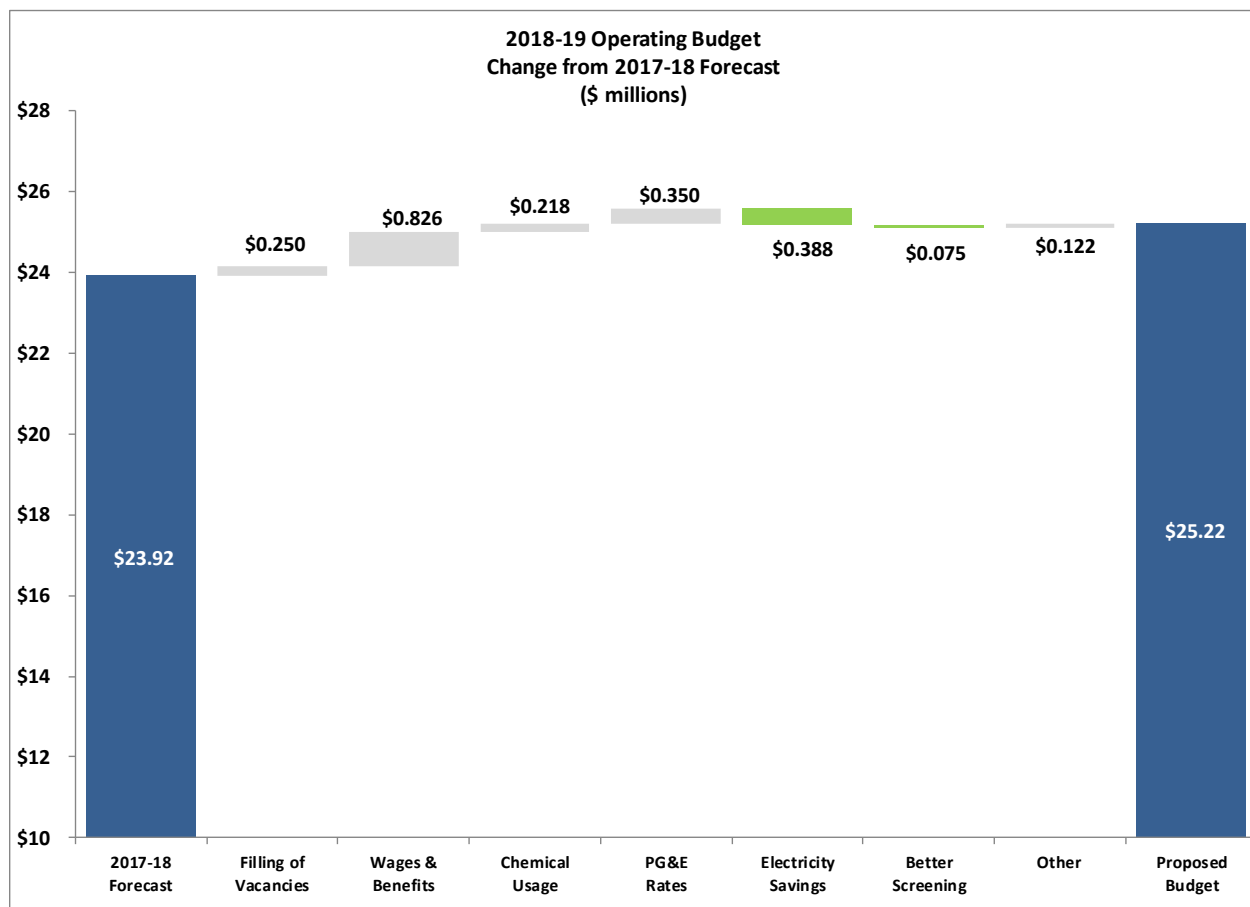
The 2018-19 Proposed Budget includes \$24.2 million for Net Operating Expenses, a 3.96% increase from the prior year Budget. It also provides for a \$1.48 million contribution to Revenue-Funded Capital to support immediate capital projects not in the CIP. Cash Reserves Designations of \$984 thousand incorporate Commission-adopted policy. Finally, as SVCW issues debt to fund the CIP, payments are estimated at \$20.4 million in 2018-19.

Year-over-year Budgeted Member Entity Contributions				
Description	2017-18 Adopted Budget	2018-19 Proposed Budget	\$ Increase/ (Decrease)	% Increase/ (Decrease)
Gross Operating Expenses	\$ 23,912,933	\$ 24,979,821	\$ 1,066,888	4.46%
Less Miscellaneous Revenue	(621,608)	(766,198)	144,590	23.26%
Net Operating Expenses	\$ 23,291,325	\$ 24,213,623	\$ 922,298	3.96%
Revenue-Funded Capital	1,546,000	1,485,500	(60,500)	(3.91%)
Reserve Designations	2,030,298	984,034	(1,046,263)	(51.53%)
Total Contributions before Debt Service	\$ 26,867,623	\$ 26,683,157	\$ (184,465)	(0.69%)
Debt Service, Participating members	\$ 12,347,586	\$ 20,389,946	\$ 8,042,359	65.13%
Total Member Contributions	\$ 39,215,209	\$ 47,073,103	\$ 7,857,894	20.04%

Operating Budget:

Specific to the operating budget only, the following table and chart compares next year's Proposed Operating Budget to 2017-18's forecasted expenditures. Comments below explain certain inflationary pressures as well as savings planned for next year.

Silicon Valley Clean Water Expenditure Summary - By Objective						
Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel	\$13,067,143	\$ 14,801,899	\$14,907,134	\$15,733,910	\$ 826,776	5.5%
Utilities	1,777,805	1,777,011	1,815,948	1,722,015	(93,933)	(5.2%)
Administrative Expenses	352,869	448,151	435,890	475,993	40,103	9.2%
Equipment & Supplies Expense	2,827,377	2,617,471	2,570,636	2,663,872	93,236	3.6%
Chemicals	1,181,551	1,377,005	1,184,566	1,521,768	337,202	28.5%
Professional & Contractual Services	2,704,120	2,524,456	2,676,759	2,492,590	(184,169)	(6.9%)
Training, Memberships, Travel	265,189	366,940	329,919	369,673	39,754	12.0%
TOTAL	\$22,176,054	\$ 23,912,933	\$23,920,843	\$24,979,821	\$1,058,978	4.4%



- Personnel costs will increase by \$827 thousand, or 5.5% compared to the 2017-18 Forecast. Approximately \$250 thousand of this increase is due to sustained vacancies occurring in the first half of 2016-17. The remaining increase is largely due to cost-of-living and step adjustments.
- Utilities costs are decreasing by \$93 thousand (5%), despite an anticipated 10% increase in PG&E rates. Cogeneration engines continue to provide over 60% of the treatment plant's electricity demand, and SVCW recently replaced inefficient equipment at the aeration and thickening processes to further reduce that demand.
- Administrative Expense will increase by \$40 thousand (20%) to fund a regional study of water quality and nutrients in the San Francisco Bay.
- Chemicals will increase by \$337 thousand, or 28.5%. A new sludge thickening technology will increase polymer use and, while it increases costs, it also better captures suspended solids in the wastewater and leads to similarly-sized electricity savings.
- Professional & Contractual Services will decrease by \$184 thousand, or 6.9%. SVCW continues to benefit from rag screening equipment that has reduced cleaning costs. Concurrently, technology support costs have declined as new systems are introduced. Additionally, SVCW will not incur renewal costs of its five-year NPDES permit as it did in 2017-18.
- Training, Memberships, and Travel will increase by \$39 thousand (12%) as SVCW ensures its employees are well-versed in new technologies and reporting tools.

Revenue-Funded Capital:

The proposed budget includes capital expenditures outside of the CIP consisting of thirteen (13) projects at a total cost of \$1.48 million. Significant projects include \$400 thousand for the expansion of the 3-water system at the treatment plant, and \$260 thousand to replace Dual Media Filter backwash pumps. Another \$225 thousand will be needed to update critical information system servers that are approaching a decade old. Approximately \$150 thousand is to purchase equipment such as forklifts and maintenance equipment.

Reserves:

The Operating Reserve meets the recommended balance of \$3.48 million and requires no contribution. This Budget recommends a \$1 million contribution to Capital Reserves to meet the projected requirement of nearly \$19 million by June 30, 2019 and maintain compliance with SVCW Reserve Policy.

Debt Service:

Including the recently-issued 2018 wastewater revenue bonds, SVCW has now raised approximately \$427 million for CIP projects. As of January 2018, remaining CIP project expenditures were approximately \$581 million.

The January 2018 Long Range Financial Plan considered remaining CIP expenditures, their timing, and available sources of funds to recommend a debt structure that assumes the majority of the CIP will now be funded through wastewater revenue bonds. Debt service payments will increase in 2018-19 as payments associated with the recent 2018 bond issuance commence. Annual debt service payments in 2018-19 are estimated at \$20.4 million.

RECOMMENDATION

No Commission action is requested or required at this meeting. Staff will present information and receive direction for proposed budget modifications and return at the April SVCW Commission Meeting with an updated budget proposal to present to the Commission for approval at that time.

It is anticipated the following items, or modified versions per Commission direction, will be proposed for adoption by resolution at the April 2018 Commission Meeting:

- i. FISCAL YEAR 2018-19 REVENUE PLAN IN THE AMOUNT OF \$24,213,623 IN NET OPERATING REVENUES REQUIRED AND \$1,485,500 FOR REVENUE-FUNDED CAPITAL PROJECTS
- ii. FISCAL YEAR 2018-19 CASH RESERVE DESIGNATIONS IN THE AMOUNT OF \$984,034
- iii. FISCAL YEAR 2018-19 DEBT SERVICE EXPENDITURES IN AN AMOUNT OF \$20,389,946
- iv. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION AUTHORIZING SVCW MANAGER TO IMPLEMENT, MANAGE AND APPROVE EXPENDITURES AUTHORIZED WITHIN THE FISCAL YEAR 2017-2018 ANNUAL OPERATING AND CAPITAL EXPENDITURES BUDGET AS ADOPTED BY THE SILICON VALLEY CLEAN WATER COMMISSION

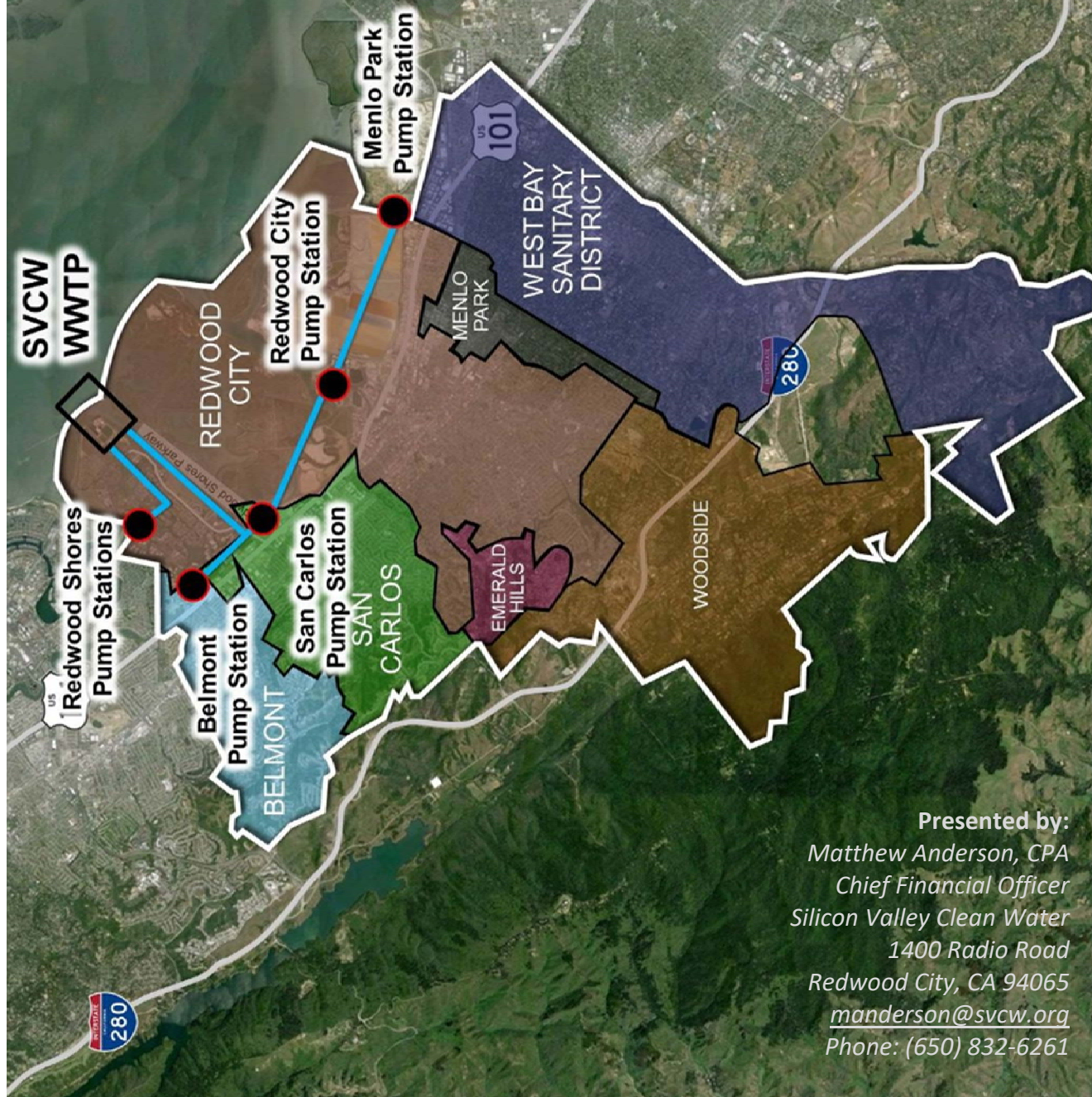


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Silicon Valley Clean Water

2018-19 Proposed Budget

Silicon Valley Clean Water



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Commissioners

<u>Name</u>	<u>Title</u>	<u>Member Agency</u>
John Seybert	Chair	City of Redwood City
Warren Lieberman	Vice Chair	City of Belmont
Robert Grassilli	Secretary	City of San Carlos
George Otte	Member	West Bay Sanitary District

SVCW Staff

<u>Name</u>	<u>Title</u>
Daniel T. Child	Manager
Teresa Herrera	Assistant Manager & SVCW Engineer
Monte Hamamoto	Wastewater Superintendent
Matthew Anderson	Chief Financial Officer
Kim Hackett	Engineering Director
Cindy Hui	Accounting Supervisor
Krista Politzer	Financial Analyst

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SECTION 1 – OVERVIEW

Organization and Business

Silicon Valley Clean Water (SVCW, or “the Agency”) was founded in 1975 as the successor to the Strategic Consolidation Sewerage Plan, from which SVCW took title to property including sanitary sewerage pumping stations, as well as transmission and outfall facilities originally constructed by that plan. SVCW now provides wastewater transmission, treatment, and effluent disposal services for the surrounding communities including the Cities of Belmont, Redwood City, and San Carlos as well as West Bay Sanitary District (Member Entities).

The regional wastewater treatment plant has an average dry weather flow permitted capacity of 29 million gallons per day, an approximately nine-mile influent force main pipeline that conveys wastewater from the SVCW Member Entities to five pump stations, the treatment plant, and a 1.25 mile effluent disposal pipeline that discharges treated effluent into the San Francisco Bay. SVCW also provides recycled water to the City of Redwood City.

SVCW is a joint exercise of powers agency reporting to the Member Entities, all of which are located in the northern part of Silicon Valley between the cities of San Francisco and San Jose. The Agency’s wastewater treatment plant is located in the City of Redwood City and serves more than 200,000 people and businesses in San Mateo County, California. SVCW operates in a strong Bay Area economy, with a customer base that includes large business customers such as Oracle Corporation, EA Sports, and Facebook.

Governance & Management

The Agency is governed by a four-member “Commission” consisting of one appointed member from each of the Member Entities’ governing bodies. Current Commission Members are:

<u>Commissioner</u>	<u>Commission Title</u>	<u>Entity Represented</u>
John Seybert	Chair	City of Redwood City
Warren Lieberman	Vice Chair	City of Belmont
Bob Grassilli	Secretary	City of San Carlos
George Otte	Member	West Bay Sanitary District

Voting is proportional to the Member Entities' respective ownership interests in the Agency's wastewater system. There are currently a total of 100 votes which are allocated as follows:

- City of Redwood City 42 votes
- West Bay Sanitary District 28 votes
- City of San Carlos 19 votes
- City of Belmont 11 votes

A vote of at least seventy five percent is required to adopt or amend bylaws, rules, and regulations; to adopt or modify any budget; to approve any capital costs, contracts, appropriations, or transfers of more than \$75,000; to employ the manager and certain consultants; to sell or dispose of property; and to approve other designated items. Other actions of the Commission must be approved by a simple majority of the votes. In addition, any amendment to the Joint Powers Agreement must be approved by a four-fifths vote by each of the SVCW Member Entities' governing bodies.

Financial Oversight and Control

SVCW sets an annual budget according to goals established by the Commission that support operational priorities, the Capital Improvement Program (CIP) and the Long Range Financial Plan (Financial Plan). The Adopted 2018-19 Budget is consistent with those goals and reflects a progressive approach to controlling costs, minimizing unplanned expenditures, limiting risks, and investing in projects and programs that benefit the community.

SVCW has no taxing power. The Agency receives nearly all of its funding, other than interest earnings and other miscellaneous revenues, from payments made by the Member Entities. Each month, Member Entities make payments for operations, capital repairs, and cash reserves. Debt service payments are made according to schedules set by SRF loans and Bond issuances. After the close of the fiscal year, the annual payments made by each Member are reconciled against the actual expenditures allocated to each Member, and any difference is applied toward fund reserves held by the Agency on behalf of each Member.

Debt Reserves

The Agency has debt reserves as well a Commission-adopted reserve policy that was established to mitigate the negative impact of revenue shortfalls from economic fluctuations, to fund unforeseen expense requirements, to provide stable rates for member entities, and to help fund future long-term capital needs. The Operating Reserve is equal to 10% of the approved Operating and Capital Budget plus \$1 million. The Capital Improvement Program Reserve is set at an amount equal to the annual calculated depreciation of SVCW facilities to meet the long-term

needs of replacing capital assets upon reaching the end of their useful life. Each year, if the funds held in the above reserves fall below targeted levels, the Commission considers budget adjustments to return reserves to their target levels. The Agency has the ability to amend its reserve policy at any time.

Long Range Financial Plan

SVCW Member Entities' sewer rates provide the underlying repayment security for all SVCW financing. As such, SVCW developed a Long Range Financial Plan (LRFP) to provide a roadmap for funding the CIP and ongoing operating costs. The Financial Plan is updated annually and presented to the Commission for approval. It also informs Member Entities when considering sewer rates.

A LRFP combines financial projections with strategy. The Governmental Finance Officers Association (GFOA) recommends that all governments regularly engage in long-term financial planning as a collaborative process to consider future scenarios and help navigate challenges. By aligning financial capacity with long-term service objectives, SVCW and its Member Entities gain insight as to financial resources needed to support strategies. With this information, SVCW Member Entities can balance objectives and financial challenges.

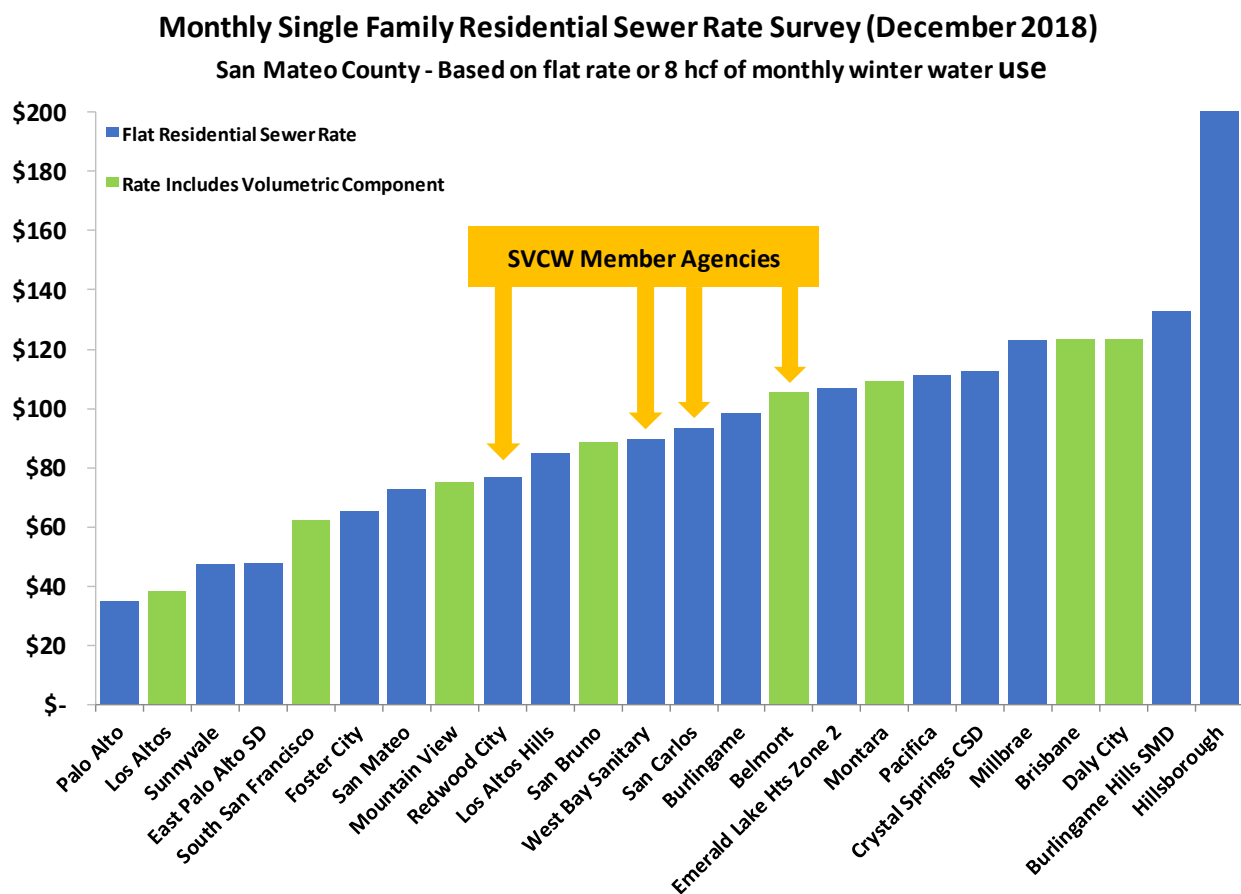
SVCW has a goal to manage its finances and meet critical funding needs, while recognizing the need to maintain reasonable wastewater rates. Going forward the LRFP is enacted through setting of annual budgets, achieving financial performance measures, and incorporating Commission-directed actions. The Financial Plan is derived from planning models that forecast operating and capital expenditures. It includes reasonably conservative assumptions and attempts to account for uncertainties. It aims to generate adequate cash reserves for capital projects while maintaining good standing in the credit markets to provide ready access to cost-effective capital financing when needed. It evaluates the capital financing and debt service coverage policies to optimize cash funding of capital investments. Finally, it continues to evaluate cash reserve policies that must consider intergenerational equity in regards to funding capital projects and raising rates.

Comparative Residential Sewer Charges

Since the introduction of the CIP, Member Agencies have been proactively raising sewer rates to support their allocable share of SVCW expenditures, as well as their own sewer operating and capital programs. While to date, rate increases have been substantial, going forward only modest increases are anticipated. The following table shows residential monthly sewer rates of Member Entities over the past nine years.

Residential Sewer Rates by Member Agency Based on 8 HCF of flow									
	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Belmont	\$48.06	\$51.34	\$72.13	\$77.33	\$82.77	\$88.13	\$ 88.13	\$ 99.47	\$ 105.35
West Bay SD	\$46.67	\$54.17	\$57.50	\$62.67	\$68.33	\$74.42	\$81.08	\$85.92	\$89.33
City of San Carlos	\$43.76	\$46.82	\$50.10	\$53.10	\$67.29	\$80.75	\$88.82	\$88.82	\$93.26
City of Redwood City	\$44.70	\$48.72	\$53.10	\$57.88	\$63.09	\$68.77	\$74.95	\$75.11	\$76.68

Member Agencies' rates are among the middle tier of San Mateo County sewer rates, as shown in the following chart of regional monthly sewer service charges for a typical single family. It should be noted that many of these other agencies are now initiating their own large capital improvement programs, and are anticipated to face significant rate increases going forward.



Accomplishments:

Each year, SVCW management sets goals to ensure its communities' wastewater is conveyed and treated in a safe and dependable manner. Key achievements during the past year include:

Operations:

- Commenced Rotary Drum Thickener Installation to decommission failing thickeners.
- Primary Sedimentation Tanks 1 and 2 upgrades
- Completed phase 1 work to rehab CCT pass 1, 2 and 3.
- Completed new installation of storm drain pump
- Commissioned new FOG Beast Unit
- To control odors, installed Vapex units at FFR wet pit and Fats Oil and Grease receiving station.
- Completed site visit and selection process for Front of Plant Receiving Lift Station design
- Coordinated and Participated in Gravity Pipeline Sampling project for the WATS model corrosion for tunnel conveyance project
- Biosolids covers installed at drying beds for wet weather stock piling.
- Purchased new solids handling loader for increased Biosolid
- 365 Operational Preventative Maintenance Work Orders completed
- Completed 27 new/revised Standard Operating Procedures
- Revised 4 Operations and Maintenance Chapters
- Revised 2 Contingency Plans
- Implemented mobile e-logger application
- Installed and commissioned 6 new energy saving Invent Parabolic Mixers on Aeration Basins 1,2 and 4
- Installed and commissioned new FFR #1 West Tech distribution arm with automated controls
- Produced 52 million gallons of Recycled Water.
- Successfully treated 4.9 billion gallons of wastewater
- Attended HachWims User conference training for administration end user for developing reports and forms for data entry collection.

- Completed installation of upgraded Hypo Diffuser system and new sodium bisulfite dichlorination dosing system
- Generated 3813 dry tons of Bio Solids for land application, composting, alternative daily cover, landfill and Bio Force Tech.
- Participated with Kennedy Jenks Engineering in California Energy Commission Food Waste Study
- Successfully navigated largest wet weather flow event in SBSA/SVCW history. Flow taken from all member agencies during event was peak maximum flow ~ 104 MGD.

Maintenance:

- Completed 2,986 corrective and preventative maintenance work orders to ensure systems reliably operate in all facilities.
- Installed new sewage pumps suction, discharge and check valves to force main and flow equalization facility at Menlo Park PS.
- Completed PLC upgrade to Controllogix PLC system at the Menlo park PS and at the Flow Equalization Facility (FEF).
- Completed installation of all sewage pumps suction, discharge and check valves at the Redwood City Pump Station.
- Installed a second Vaughan Chopper pump at Redwood City Pump Station to reduce risk of damage to treatment equipment.
- To improve air quality and reduce noise pollution, replaced existing mufflers with hospital grade silencers at San Carlos Pump Station.
- Installed WesTech 72' rotary Fix Film Reactor, including electrical upgrade and controls, giving operators more process control and reducing risk of injuries.
- Rehabilitated Return Activated Sludge pumps 4, 5 and 6 suction pipes and replaced suction valves.
- Installed VAPEX unit for odor control at FFR wet pit and at the grease receiving station.
- Upgraded Aeration Basins mixing equipment with new Invent mixers, including controls.

Environmental Services:

- Performed 120 industrial sampling events.
- Reissued 4 mandatory wastewater discharge permits which included an opportunity for succession training for staff.
- Partnered with lab staff to perform 100 pump station sampling events, sampling was expanded to include the Port of Redwood City dedicated sampling location, allows more accurate data from the Port which contributes to overall Redwood City total.
- Evaluated and permitted approximately 25 non-routine and groundwater requests for discharge. Requests for Groundwater Discharge from construction sites has increased due to increased construction activity in Menlo Park and San Carlos. This also included an opportunity for succession training for staff.
- Partnered with the Engineering department to complete force main COD sampling. Reducing the need for outside contractors.
- Coordinated water conservation presentations made to 3,700 students, teachers and parents. Conveyed pollution prevention message to over 120 elementary students.
- Performed 641 Fats, Oils and Grease inspections at commercial restaurants in Redwood City, San Carlos and unincorporated San Mateo County. Outreach for proper disposal of grease removal devices was done also at these sites.
- Taught sewer science course to 1,045 local high school students.
- Sponsored two Marine Science Institute voyages for schools.
- Staffed a booth at the Marine Science Institute's Earth Day event attended by 2,500 community members, and 150 members at the Belmont Earth Day event.
- Conducted multiple treatment plant tours for over 300 community members.

Laboratory:

- Laboratory Staff generated over 30,000 reportable results during 2017 in support of Plant Operations, Permit Regulations, Environmental Services, and customer projects. These results included daily pH measurements of the Effluent to trace metal analysis of Industrial User samples collected by SVCW Environmental Inspectors.
- The Laboratory Division achieved certification for a new time-saving method from the California Environmental Laboratory Accreditation Program. Recycled water is now analyzed for Total Coliforms using the Colilert Method and Quanti-Trays. The Colilert

Method has a reduced analysis time and yields results in only 24 hours. The new method is a real time-saver by eliminating 15 test tubes and media preparation from each test.

- The Laboratory Division successfully managed 700 samples and 2,700 reportable results from an in-house Conveyance System Project. Samples were collected over a 24 hour period by SVCW staff every half hour from six sites including the pump stations. All 700 bottles were bar-coded and the data was reported using the Laboratory LIMS. The results were critical in understanding the wastewater chemistry for designing the new conveyance system.

Safety:

- Developed, installed, and implemented emergency equipment and action plan for RESCU Trailers
- Trained and certified employees operating new front end loader.
- Conducted and prepared scenarios for our internal Confined Space Rescue Team.
- Implemented SMART Program to encourage safety awareness and hazard recognition.
- Completed 5 ergonomic evaluations to reduce musculoskeletal disorders.
- Updated and provided safety orientation for new employees.

Engineering:

- Completed 7 Construction Projects, improving the reliability and efficiency of the treatment processes. Projects included installing efficient mixers with lower motor energy demands in the aeration basins, increasing tertiary filtration capacity, and completing the repair to the effluent pipeline.
- Addressed and relieved three emergency conditions: effluent outfall pipeline, Information Services servers, and 12 kV vault repair.
- Negotiated contracts and began Stage 1 design work with two Design-Build firms for implementation of two high-profile RESCU projects: Gravity Pipeline and Front of Plant Improvements.
- Continued development of Resource Recovery program to maximize use of generated biogas and solar resources. This includes the initiation of agreements to develop a photo-voltaic system and energy storage using a battery system.

- Completed design for a new 12kV Switchgear that will allow redundancy to the electrical supply throughout the plant, enable export-import to fully utilize all biogas generated, and power the Front of the Plant Improvements. The new switchgear will also be located on elevated platform above 100-year flood level.
- Replacement of existing aeration mixers with new technology; the new mixers alone have dropped the average plant power demand by 250kW or 20% and will save SVCW \$2.95 million kWh annually (25% of total electricity usage). Received an incentive payment of \$274 thousand from PG&E for this project, for a simple payback of less than four years.
- Improvements in other resource recovery efforts such grease receiving facility has increased the amount of grease received by three times. This increases the biogas production which, in turn, provides higher power generation capability.
- SVCW has been awarded a \$1 million SGIP (Self-Generation Incentive Program) incentive for implementation of its energy storage project.
- Progressed discussions with regional partners on feasibility of developing potable reuse as a new water supply.
- Completed designs and began construction for California Energy Commission Study on Maximizing Water and Energy from New Anaerobic Wastewater Treatment Technology.
- Completed designs for dealing with corrosion issues within the plant; chlorine contact tank concrete and steel and Control Building HVAC system

Information Systems:

- During this report period, SVCW networks experienced 100% uptime. No outages were experienced do to a networking gear failure or system vulnerability.
- Extended network resources to the RESCUE trailer community; providing design services for cabling and equipment building. Installation of required network gear as well as configurations for occupant's work stations.
- Completed the conversion of ISP to Comcast at main facility as well as remote locations. Conversion increases the speed and reliability of internet access and connections.
- Completed the installation and configuration of new Video Wall in the control room to allow operations staff to monitor multiple video feeds to the access video wall. Monitoring surveillance systems at the same time as other application feeds.
- Completed the installation and configuration of SVCW virtual VCenter online redundancy. Another layer of uptime enhancement for network users.

- Proposed and organized a SCADA standardization team for discussion and improvements to the network. Standardizing gear and configurations for reliability and security of the network. Agreements are established to improve the communication relationship for consultants, SVCW instrumentation users and IS division accessing and connecting to the network.
- Installed and Configured the RS Logic / Factory Talk, products that will allow licensing for a mobile component that can track changes to Programmable Logic Controller (PLC) devices. The logic also allows SVCW to create an asset management strategy for these Internet Connection Sharing devices as well as perform auditing for security enhancement.
- Reliability of the SCADA system was improved by building in redundant routing of the network. Failover systems for remote locations bring control back to main facility in emergency situations. Main facility failover systems have been configured and upgraded during the same period.
- Staff was highly involved with Water ISAC (Information Sharing and Analysis Center), which leverages Homeland Security directives to analyze threat data from the federal government level that could affect the Water/Wastewater communities.
- Updated services to the latest version of antivirus software PAN TRAPS, a Palo Alto Networks active antiviral software. TRAPS are an intelligent threat monitoring and detection product that stops an attack before or during an event rather than after the malware or virus has already infected a device.
- Improved Virtual Private Network (VPN) access by installing Global Protect and Dual Factor Authentication with DUO Mobile notification. This dual factor authentication requires a secondary notice approval that only the user possesses and monitors security of the authorized device that approves access. If compromised, DUO prevents access until the issue is corrected.
- Installed Aerohive wireless, a secure and advanced WiFi system. Aerohive provides monitoring and report of devices and mapping of wireless networking use. It also allows the system administrator to develop use reports by specific facility location.
- Installed advanced networking reporting tools with Splunk software to provide reporting and insight into SVCW network activity, including the ability to analyze security issues.
- Established Remote Network access for both networks and ensured security of access for remote devices is through SVCW's Virtual Client abilities, (VDI, Virtual Desktop Infrastructure) that points to the main facility servers for authentication access.

- Completed migration of SVCW's email system to the cloud, Office 365 (O365). Email is available anytime anywhere for users. This saves IT staff time and means servers and network resources may be upgraded without purchasing new hardware. O365's secure outlet is not attached to network equipment, reducing penetration email attacks.
- Network access is monitored using an intelligent monitoring system that track and filter real-time data packet transfer through in-depth inspections.

Administration & Finance:

- Issued 2018 Wastewater Revenue Bonds to raise \$141 million in proceeds for capital improvement projects.
- Selected and received approval from Commission for new Accounting Software system. Currently under implementation.
- Completed the 2016-17 financial statement audit, including capitalization of \$10.5 million in construction projects completed during the year.
- With the retirement of the Administrative Services Director, completed distribution of duties to existing staff.
- Filled two Accountant vacancies to strengthen the department in advance of a new accounting software platform.
- Updated the Long-Range Finance Plan for changes in debt mix, construction schedule, and inflationary factors.
- Continued legal response to CalPERS review of SVCW performance incentive program.
- Enrolled Purchasing team in the National Cooperative Contracts consortium to gain access to better pricing.
- Performed comparable pricing analysis to save 20-30% on certain consumable supplies.
- In warehouse, segregated new equipment from rebuilt overhauled equipment adjusted inventory value
- Accelerated when inventory cycle counts are done to earlier in the fiscal year, to identify and resolve reconciliation items in advance.
- Participated with Government Surplus agencies to resell replaced equipment.

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Initiatives:

Each year, Management establishes goals for each Division that together advance SVCW objectives. Following are the key initiatives for 2018-19:

Operations:

- Leverage the upcoming Supervisory Control and Data Acquisition (SCADA) software upgrade to improve process controls.
- Participate in CIP planning decisions, particularly for Front-of-Plant, Gravity Pipeline, and Pump Station projects, to perfect the operability of future facilities.
- Establish new operation protocols for new Rotary Drum Thickener system to increase digester efficiency and volume.
- Assist in the design of replacement aeration blower equipment to ensure new solutions are operable and effective.

Maintenance:

- Participate in managing the replacement Computerized Maintenance Management System, transitioning from INFOR to a Microsoft Dynamics platform. Maintenance will focus on ensuring accurate transfer of existing assets and inventory data to new system.
- Replace discharge and check valves at the San Carlos pump station.
- Replace V-3 and V-4, 48" force main valves.
- Rehabilitate RAS pumps 1,2 and 3 suction pipes and replace suction valves.
- Install nitrate chemical dosing system at Menlo Park PS to reduce risk of corrosion.
- Implement mudwell program to clear pumps and suction pipes.
- Refine automation to the disinfection and dichlorination systems including controls, electrical redundancy and adequate equipment redundancy.

Environmental Services:

- Reevaluate local limits associated with the SVCW NPDES permit, scheduled for renewal in 2017. A standard NPDES requirement is to reevaluate local limits as needed.

- Depending upon reevaluation of Local Limits, move forward to also update SVCW regulations including pretreatment requirements, possible revenue requirements and other issues to be determined.
- Given regulatory changes by the EPA to its dental amalgam program to contain toxic heavy metals, staff will update its dental office database and complete surveys of local dentist offices.
- Evaluate the effect recent mixed-use construction will have on domestic loading levels.
- Given increase in residential housing, conduct outreach regarding the impact of fats, oils, and grease on the wastewater treatment process.

Laboratory Services:

- Reduce the impact on staffing from the recent overhaul of the California Environmental Laboratory Accreditation Program. New regulations are required of all California water, wastewater, and environmental laboratories and emphasize increased documentation of all work. Transitioning to the new requirements estimated to take three years.

Information Systems:

- On the SCADA network, build in added security and reliability of Port Management.
- Upgrade system Domain Controllers
- Set up new Guest WiFi protocols that control network security and access.
- Implement SharePoint as collaborative user structure and file management and retention
- Rollout the new standard Windows 10 Operating System to entire staff
- Upgrade SVCW phone system that has reached the end of its useful life and is no longer supported.
- Upgrade network server hardware to Hyperflex system to protect data and files.
- Upgrade the SCADA software license, Wonderware, to provide Operators with additional functionality.

Engineering:

- Complete construction for California Energy Commission Study on Maximizing Water and Energy from New Anaerobic Wastewater Treatment Technology
- Continue discussions with regional partners, both public and private, to explore and initiate Resource Recovery and Recycled Water opportunities.
- Support Finance Division in acquiring low-cost financing for CIP projects.
- Move towards completion of In-Plant, process-related CIP projects.
- Progress RESCU Program projects; Gravity Pipeline and Front of Plant Stage 2 activities and Pump Station Rehabilitation/Replacement designs.

Administrative and Finance:

- Ensure funding is available, at the lowest-available-cost possible, for CIP projects by pursuing governmental loans, principal forgiveness programs, grants, and bond financing.
- Implement Phase 1 of the new financial software system to replace the legacy accounting system, including development of workflows to maintain compliance with CalPERS and other applicable laws (HR).
- Define, configure, and implement effective audit techniques to monitor and report on CIP construction expenditures.
- Conduct a recruiting and transition process to ensure uninterrupted workflow.
- Continue to resolve the findings of the California Public Employee Retirement System (CalPERS) regarding the exclusion of supervisory incentive pay from retirement benefits.
- Strengthen customer service of Purchasing team by committing to process all high-priority requisitions within two business days.
- Attend purchasing training through California Association Public Procurement Organization.
- Control costs and improve accuracy through competitive pricing. Examples include electrical supplier, plumbing supplier, janitorial supplies, and pipes.
- Establish Vendor list as a resource
- Improve the organization of the warehouse facility and stock shelving systems, including grouping like parts and supplies for ease of identification.
- Remove obsolete parts from inventory through analysis of slow moving inventory parts.

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SECTION 2 – OPERATING BUDGET SUMMARY

The 2018-19 Operating and Revenue-Funded Budget anticipates approximately \$24.2 million in Net Operating Expenses and \$1.48 million for Revenue-Funded Capital projects next year. Reserve Designations are aligned with Agency policy and include \$0.98 million in Cash Reserve Contributions. Debt Service Payments are budgeted to be \$20.4 million in 2018-19.

Year-over-year Budgeted Member Entity Contributions				
Description	2017-18 Adopted Budget	2018-19 Proposed Budget	\$ Increase/ (Decrease)	% Increase/ (Decrease)
Gross Operating Expenses	\$ 23,912,933	\$ 24,979,821	\$ 1,066,888	4.46%
Less Miscellaneous Revenue	(621,608)	(766,198)	144,590	23.26%
Net Operating Expenses	\$ 23,291,325	\$ 24,213,623	\$ 922,298	3.96%
Revenue-Funded Capital	1,546,000	1,485,500	(60,500)	(3.91%)
Reserve Designations	2,030,298	984,034	(1,046,263)	(51.53%)
Total Contributions before Debt Service	\$ 26,867,623	\$ 26,683,157	\$ (184,465)	(0.69%)
Debt Service, Participating members	\$ 12,347,586	\$ 20,389,946	\$ 8,042,359	65.13%
Total Member Contributions	\$ 39,215,209	\$ 47,073,103	\$ 7,857,894	20.04%

A summary of year-over-year changes in budgeted amounts is below:

- Gross Operating Expenditures will increase by \$1.07 million (4.46%), of which \$826 thousand was from ordinary inflationary pressures on wages and other personnel costs. Non-personnel cost increases include more polymer chemicals used in new processes.
- Miscellaneous Revenue will be \$145 thousand higher next year, as SVCW recognizes continued growth in tipping fee revenues associated with its food grease-receiving program.
- Revenue-Funded Capital spending will be \$1.485 million, which is \$61 thousand less than the 2017-18 Budget. This expenditure funds small capital needs for treatment plant equipment needs.
- Reserve Designations will decrease by \$1.05 million next year. The 2018-19 Budget follows Reserve Policy by crediting operating reserve earnings and contributing \$1 million annually to the CIP Reserve. Unlike last year, when SVCW needed to replenish reserves after a \$1.13 million emergency expenditure, this budget requires a standard reserve contribution.
- Debt Service Payments are budgeted to be \$8 million more than the current year, as recently-issued Revenue Bonds for the CIP program become due.

Expenditure Allocations:

Operating Revenues are allocated according to the Joint Powers Agreement (JPA) between Member Entities. The allocation methodology uses a combination of three flow and loading factors: Flow, Biochemical Oxygen Demand (BOD), and Suspended Solids (SS). These factors are based on three-year averages and updated annually. SVCW applies the JPA-defined formula in order to allocate budgeted operating costs to Member Entities.

The updated three-year flow and loading factors below illustrate how flow and loading figures changed proportionate to Member Agencies' absolute figures.

Three-year Average Flow and Loading Averages - by Member				
Agency	Factor	2017-18 Adopted Budget	2018-19 Proposed Budget	Point Increase/ (Decrease)
Belmont	Flow	13.18%	12.43%	(0.75)
	Biochem. Oxygen Demand	12.48%	12.44%	(0.04)
	Suspended Solids	12.61%	11.97%	(0.64)
Redwood City	Flow	46.53%	47.49%	0.96
	Biochem. Oxygen Demand	46.52%	44.63%	(1.89)
	Suspended Solids	46.44%	46.74%	0.30
San Carlos	Flow	13.55%	13.89%	0.34
	Biochem. Oxygen Demand	12.41%	12.29%	(0.12)
	Suspended Solids	12.18%	11.57%	(0.61)
WBSD	Flow	26.74%	26.19%	(0.55)
	Biochem. Oxygen Demand	28.59%	30.64%	2.05
	Suspended Solids	28.77%	29.72%	0.95

The above year-over-year changes reflect relative flow and loading behaviors between Member Entities. These metrics are presented to the SVCW Technical Committee for validation.

Member Agency Operating Contributions Calculation:

Flow and Loading factors are incorporated in the below table to allocate budgeted operating expenditures:

2018-19 Budget Revenue Allocation to Member Agencies - Proposed									
Description				Belmont	Redwood City	San Carlos	West Bay San District	TOTAL	
Allocation Factors									
Flow				12.43%	47.49%	13.89%	26.19%	100%	
Biochemical Oxygen Demand (BOD)				12.44%	44.63%	12.29%	30.64%	100%	
Suspended Solids (SS)				11.97%	46.74%	11.57%	29.72%	100%	
Operating Expenditures	Weightings								
	Flow	BOD	SS						
	Operations	26.5%	33.5%	40.0%	\$ 1,125,355	\$ 4,247,351	\$ 1,141,584	\$ 2,672,767	\$ 9,187,056
	Maintenance	26.5%	33.5%	40.0%	779,011	2,940,169	790,245	1,850,186	6,359,611
	Laboratory	26.5%	33.5%	40.0%	216,185	815,934	219,303	513,450	1,764,871
	Environmental Services	26.5%	33.5%	40.0%	143,750	542,546	145,823	341,413	1,173,532
	Engineering	26.5%	33.5%	40.0%	93,467	352,765	94,814	221,987	763,033
	Safety	100.0%	0.0%	0.0%	49,945	190,821	55,812	105,235	401,813
	Information Services	26.5%	33.5%	40.0%	206,749	780,317	209,730	491,037	1,687,833
	Administrative Services	100.0%	0.0%	0.0%	452,709	1,729,619	505,884	953,858	3,642,071
Subtotal				\$ 3,067,171	\$ 11,599,522	\$ 3,163,195	\$ 7,149,933	\$ 24,979,821	
Subtract Miscellaneous Income	26.5%	33.5%	40.0%	\$ 93,854	\$ 354,228	\$ 95,208	\$ 222,908	\$ 766,198	
2018-19 Net Operating Revenue Required				\$ 2,973,317	\$ 11,245,294	\$ 3,067,987	\$ 6,927,025	\$ 24,213,623	
2017-18 Net Operating Revenue Required				2,980,440	10,829,851	2,976,315	6,504,719	23,291,325	
\$ Increase / (Decrease)				(7,123)	415,443	91,672	422,306	922,298	
% Increase / (Decrease)				(0.2%)	3.8%	3.1%	6.5%	4.0%	

Miscellaneous Revenue:

Miscellaneous Revenue is derived from grease and septic receipts, property leases, and services performed by the Laboratory and Environmental Services Divisions. In 2017-18 SVCW will continue to receive Pacific Gas & Electric grant revenue associated with electricity production from the cogeneration engines.

2018-19 Budget Miscellaneous Revenue							
Description	2016-17		2017-18		2018-19		% Incr/(Decr) v. Forecast
	Actual	Budget	Forecast	Budget	Incr/(Decr) v. Forecast		
Grease & Septic	\$ 197,126	\$ 164,621	\$ 264,621	\$ 275,000	\$ 10,379		3.9%
Cell Tower Lease	25,276	25,276	25,276	26,034	758		3.0%
Property Lease Revenue	23,875	15,163	15,163	15,163	-		0.0%
Equipment Sales	-	30,000	30,000	30,000	-		0.0%
Source Control	69,723	56,486	56,486	65,000	8,514		15.1%
Lab Revenue	24,571	24,430	24,430	30,000	5,570		22.8%
Interest Revenue	18,895	20,567	20,567	25,000	4,433		21.6%
Cogen Grant Revenue	271,125	260,000	260,000	275,000	15,000		5.8%
Other	24,254	25,065	25,065	25,000	(65)		(0.3%)
TOTAL	\$ 654,845	\$ 621,608	\$ 721,608	\$ 766,198	\$ 44,590		6.2%

Capital and Reserve Contributions:

As described in Section 4 of this budget, Revenue-financed Capital projects are estimated at \$1.485 million in 2018-19. Those costs are allocated to Members according to JPA-defined percentages, which are based on each Member Agency's dry weather capacity owned and its allocated share of future dry weather capacity.

2018-19 Capital and Reserve Allocation Calculations					
Description	City of Belmont	Redwood City	City of San Carlos	West Bay San District	TOTAL
Capital and Reserve Allocation Factors	9.45%	48.57%	15.14%	26.84%	100.00%
CAPITAL IMPROVEMENT					
Plant (cash-funded capital)	\$ 87,885	\$ 451,701	\$ 140,802	\$ 249,612	\$ 930,000
Pump Stations	-	-	-	-	-
Force Main	-	-	-	-	-
Equipment	52,495	269,806	84,103	149,096	555,500
Subtotal	\$ 140,380	\$ 721,507	\$ 224,905	\$ 398,708	\$ 1,485,500
RESERVE CONTRIBUTIONS					
Operating Reserve	\$ (1,509)	\$ (7,755)	\$ (2,417)	\$ (4,285)	\$ (15,966)
CIP Reserve	94,500	485,700	151,400	268,400	1,000,000
Subtotal	\$ 92,991	\$ 477,945	\$ 148,983	\$ 264,115	\$ 984,034
Member Contributions	\$ 233,371	\$ 1,199,453	\$ 373,887	\$ 662,823	\$ 2,469,534

Section 5 of this Budget briefly reviews the CIP and its associated debt service payments, which vary as certain Members opt to self-finance a portion of the CIP rather than participate in SVCW debt. Cash reserves, discussed in Section 6, reflect SVCW policy.

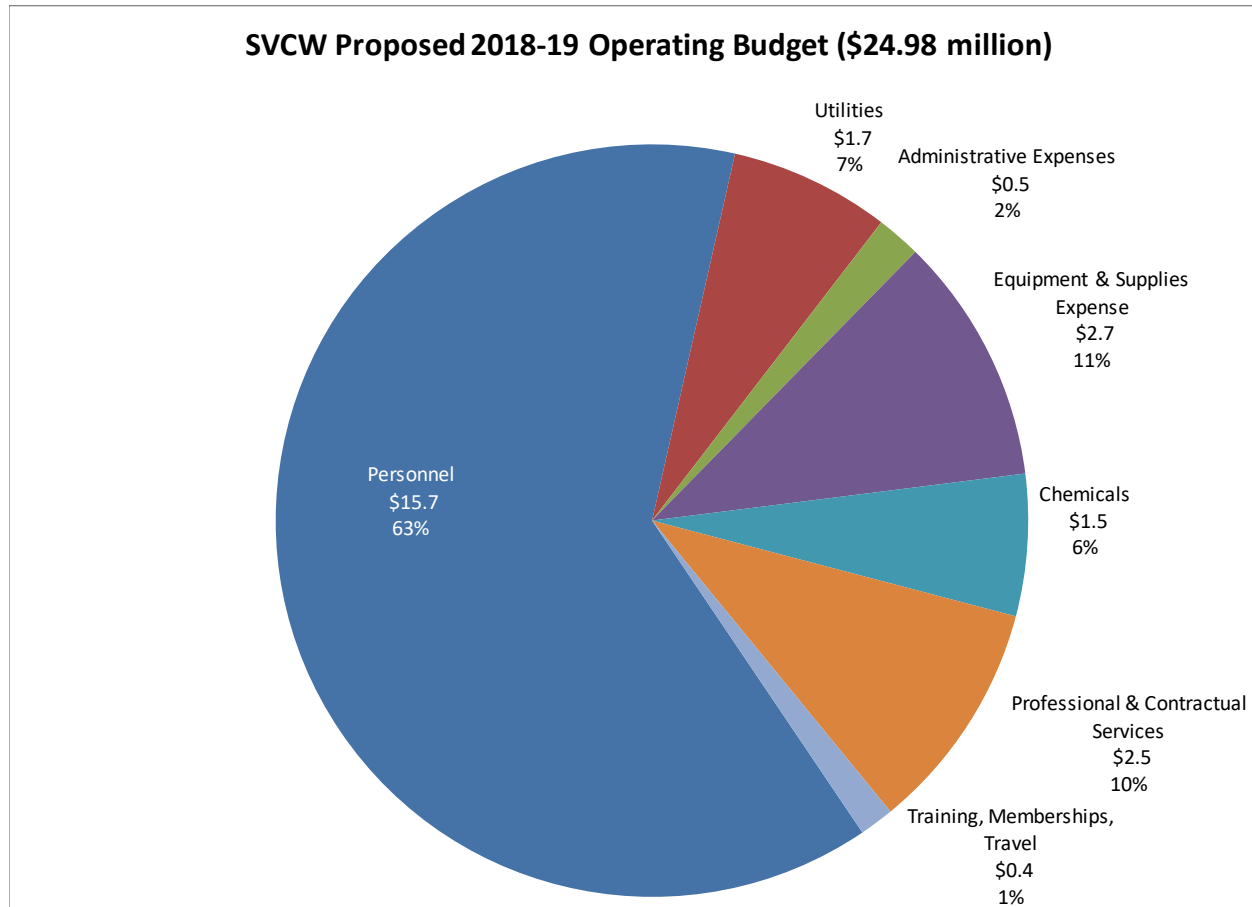
Total Member Entity Contributions:

Total 2018-19 contributions (including debt service) will be \$47 million, as allocated in the table below:

2018-19 Proposed Budget - Total Contributions by Member Agency					
Description	City of Belmont	Redwood City	City of San Carlos	West Bay San District	TOTAL
Net Operating Expenditures	\$ 2,973,317	\$ 11,245,294	\$ 3,067,987	\$ 6,927,025	\$ 24,213,623
Revenue-Funded Capital Expenditures	140,380	721,507	224,905	398,708	1,485,500
Reserve Contributions	92,991	477,945	148,983	264,115	984,034
Debt Service Payments	178,425	11,137,107	3,508,897	5,565,516	20,389,946
Subtotal - Contributions to SVCW	\$ 3,385,113	\$ 23,581,854	\$ 6,950,772	\$ 13,155,364	\$ 47,073,103

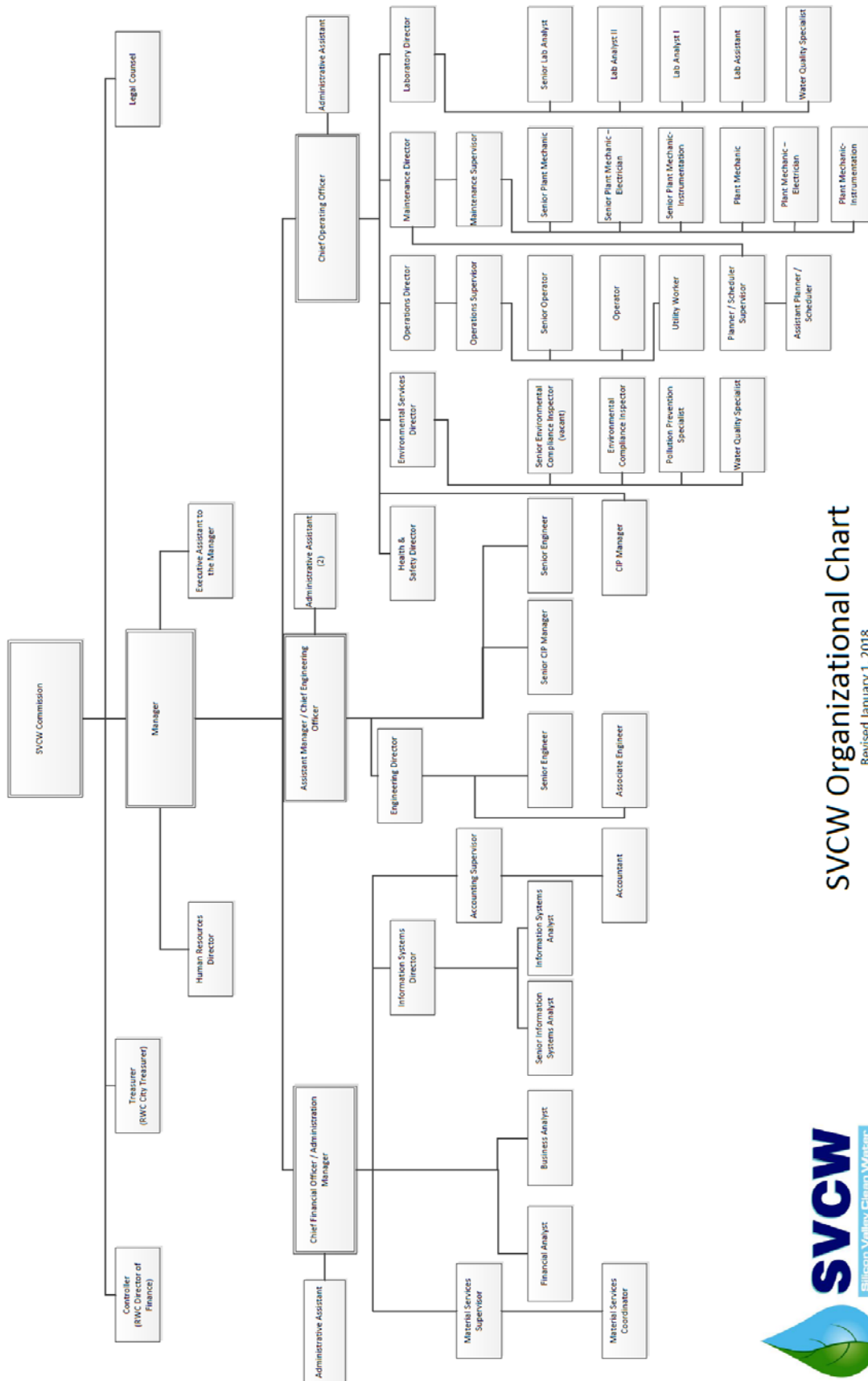
SECTION 3 – GROSS OPERATING EXPENDITURES

The FY 2018-19 Gross Operating Budget will be \$24.98 million. The below chart illustrates the significant expenditure categories, showing 63% of expenditures are for personnel-related costs associated with approximately 78 full-time equivalent employees in the Operating Budget.



Personnel:

Operating Budget staffing levels have ranged from 72 to 78 full time equivalents across eight divisions since 2010, when SVCW increased staffing to address critical maintenance matters. Those positions, as well employees dedicated to the Capital Improvement Program, are illustrated in the following Adopted organization chart.

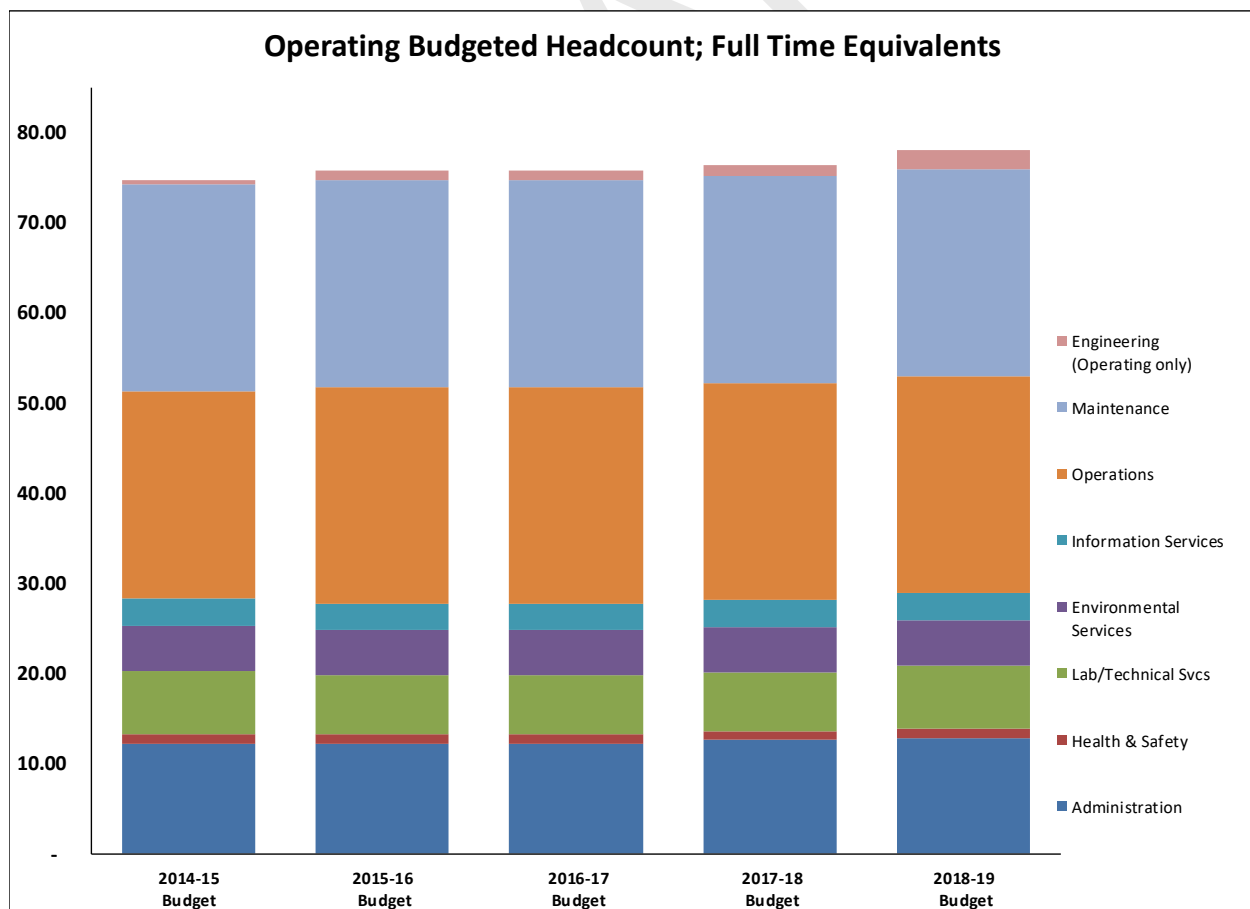


SVCW Organizational Chart
Revised January 1, 2018



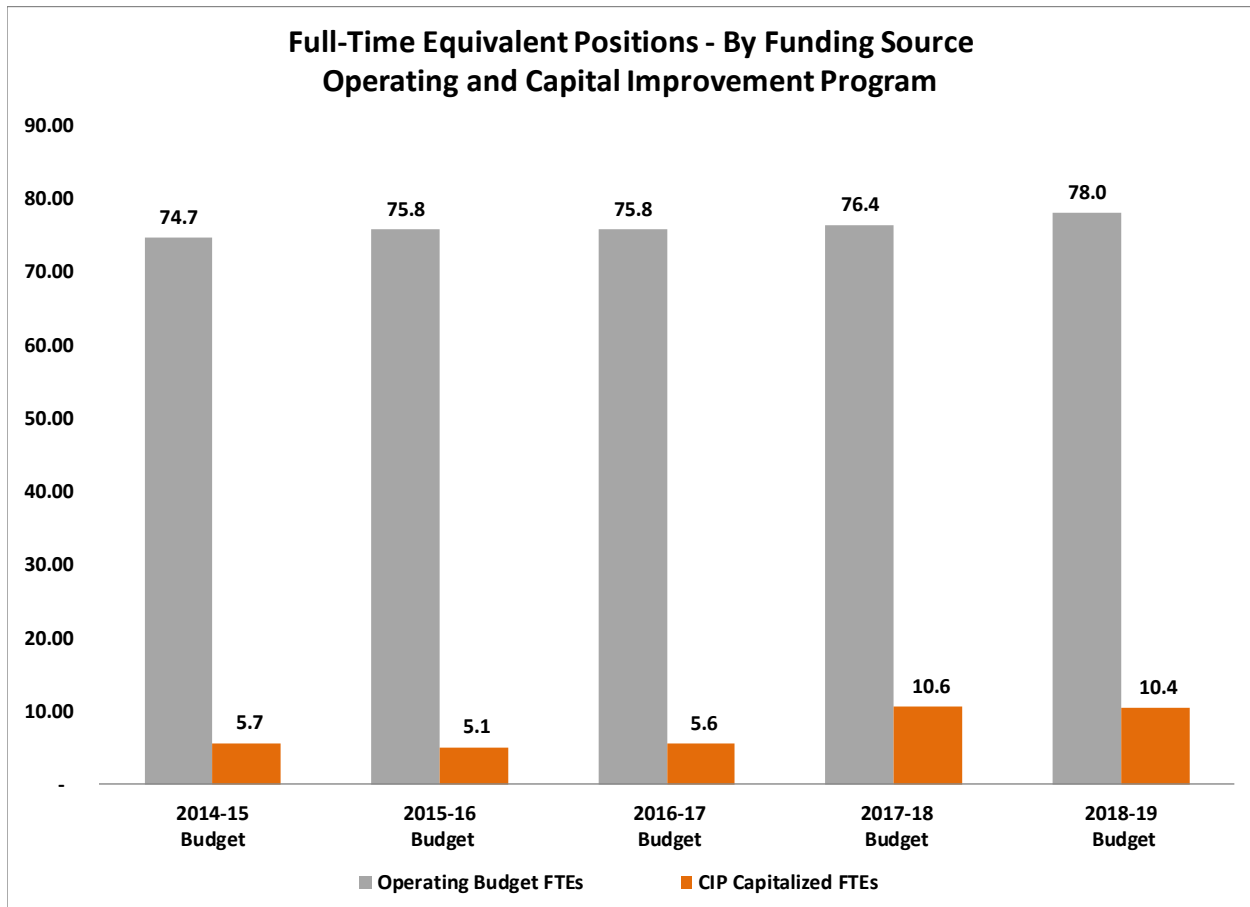
As noted in the table below, the number of positions in the Operating Budget will increase by nearly two positions. The Operations and Maintenance Divisions remain steady at a combined 47 full-time equivalent positions, or 62% of the total number of Operating Budget employees. The Engineering Division will shift approximately one position to operating matters. The Laboratory Division expands a part-time employee to full-time as it faces more regulatory requirements. Administration experienced a retirement in 2018 but increases a net 0.25 as it prepares to implement a new accounting system and commits resources to operating activities.

Full-time Equivalent Headcount - Operating Budget						
Department	2014-15 Budget	2015-16 Budget	2016-17 Budget	2017-18 Budget	2018-19 Budget	Increase/ (Decrease)
Operations	23.00	24.00	24.00	24.00	24.00	-
Maintenance	23.00	23.00	23.00	23.00	23.00	-
Lab/Technical Svcs	7.00	6.50	6.50	6.50	7.00	0.50
Environmental Services	5.00	5.00	5.00	5.00	5.00	-
Engineering (Operating only)	0.40	1.00	1.00	1.25	2.15	0.90
Health & Safety	1.00	1.00	1.00	1.00	1.00	-
Information Services	3.00	3.00	3.00	3.00	3.00	-
Administration	12.25	12.25	12.25	12.63	12.88	0.25
TOTAL Full Time Equivalents	74.65	75.75	75.75	76.38	78.03	1.66



In addition to the Operating Budget headcount figures, certain Engineering Division positions are dedicated to capital improvement projects. It should be noted that the Operating Budget excludes those costs. As SVCW enters a critical phase of its Capital Improvement Program, projects are now much larger and complex and require additional departmental administration.

The chart below defines the number of positions that have been traditionally charged to capital projects versus operating costs, and further illustrates how the 2018-19 Budget continues to dedicate approximately ten staff to manage increasingly large and complex projects.



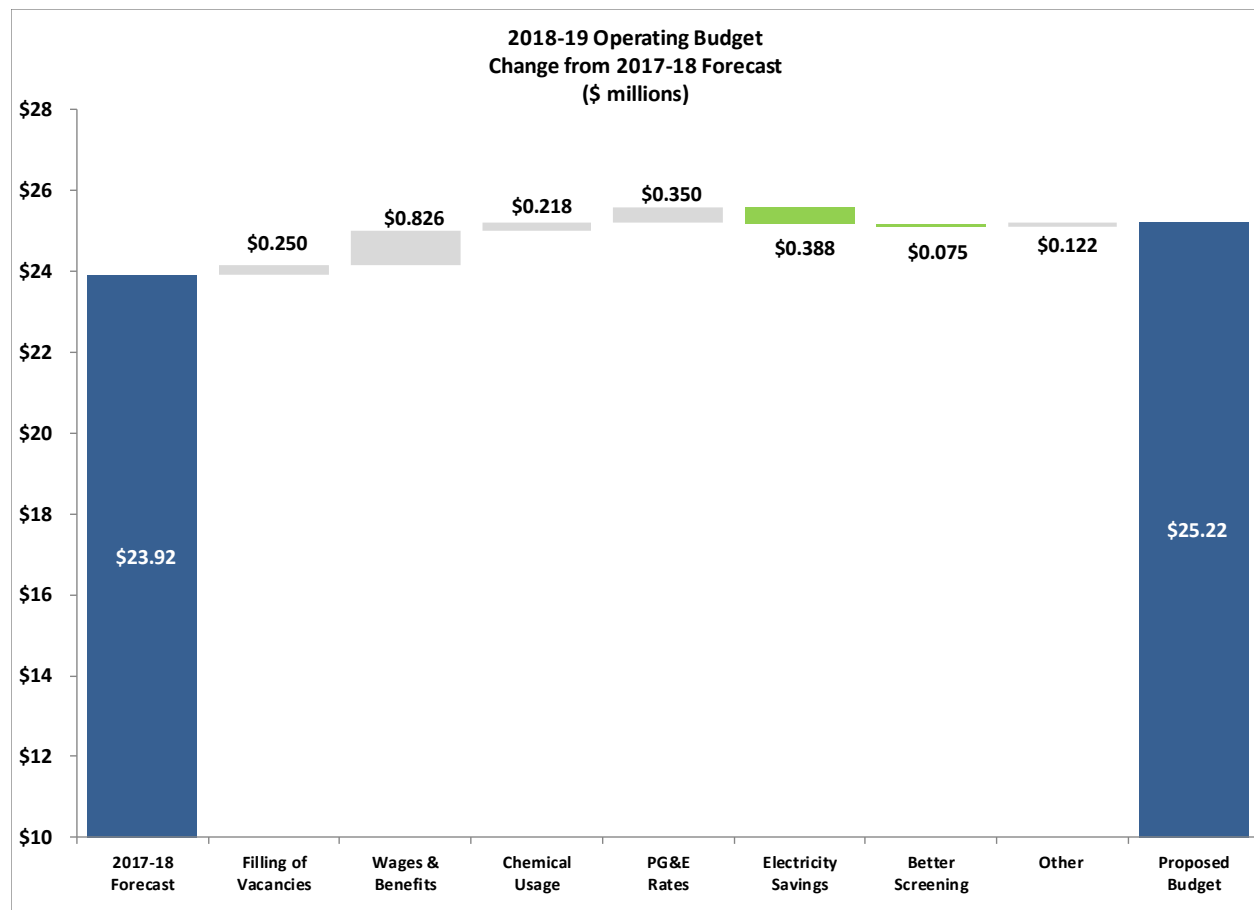
Operating Costs Summary by Objective:

Gross Operating Expenses (compared to 2017-18 Forecast) increases by \$1.06 million, or 4.4%.

Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel	\$13,067,143	\$ 14,801,899	\$14,907,134	\$15,733,910	\$ 826,776	5.5%
Utilities	1,777,805	1,777,011	1,815,948	1,722,015	(93,933)	(5.2%)
Administrative Expenses	352,869	448,151	435,890	475,993	40,103	9.2%
Equipment & Supplies Expense	2,827,377	2,617,471	2,570,636	2,663,872	93,236	3.6%
Chemicals	1,181,551	1,377,005	1,184,566	1,521,768	337,202	28.5%
Professional & Contractual Services	2,704,120	2,524,456	2,676,759	2,492,590	(184,169)	(6.9%)
Training, Memberships, Travel	265,189	366,940	329,919	369,673	39,754	12.0%
TOTAL	\$22,176,054	\$ 23,912,933	\$23,920,843	\$24,979,821	\$1,058,978	4.4%

Comparing the 2018-19 Budget to the 2017-18 Forecast:

- Personnel costs will increase by \$827 thousand, or 5.5% compared to the 2017-18 Forecast. Approximately \$250 thousand of this increase is due to sustained vacancies occurring in the first half of 2016-17. The remaining increase is largely due to cost-of-living and step adjustments.
- Utilities costs are decreasing by \$94 thousand (5%), despite an anticipated 10% increase in PG&E rates. Cogeneration engines continue to provide over 60% of the treatment plant's electricity demand, and SVCW recently replaced inefficient equipment at the aeration and thickening processes to further reduce that demand.
- Administrative Expense will increase by \$40 thousand (20%) to fund a regional study of water quality and nutrients in the San Francisco Bay.
- Chemicals will increase by \$337 thousand, or 28.5%. A new sludge thickening technology will increase polymer use and, while it increases costs, it also better captures suspended solids in the wastewater and leads to produce similarly-sized electricity savings.
- Professional & Contractual Services will decrease by \$184 thousand, or 6.9%. SVCW continues to benefit from rag screening equipment that has reduced cleaning costs, technology licenses costs have declined, and SVCW will not incur NPDES permit renewal costs as it did in 2017-18.
- Training, Memberships, and Travel will increase by \$39 thousand (12%) as SVCW ensures its employees are well-versed in new technologies and reporting tools.



Silicon Valley Clean Water Operating Expenditures						
Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel:						
Salaries	\$ 9,869,474	\$ 10,655,330	\$ 10,790,060	\$ 11,223,994	\$ 433,934	4.0%
Overtime	305,838	232,921	236,179	250,149	13,970	5.9%
Other Employee Benefits	4,800	2,409	20,162	-	(20,162)	(100.0%)
Retirement Benefit Contributions	402,930	1,236,766	1,229,375	1,367,491	138,117	11.2%
Health Insurance	1,439,246	1,555,288	1,531,680	1,693,869	162,189	10.6%
Payroll Tax	2,471	711	1,573	-	(1,573)	(100.0%)
Workers' Compensation	198,519	239,774	217,777	238,464	20,687	9.5%
Health Insurance - Retiree	696,412	718,854	721,229	791,213	69,983	9.7%
Medicare	147,453	159,846	159,099	168,730	9,631	6.1%
Subtotal: Personnel Costs	13,067,143	14,801,899	14,907,134	15,733,910	826,776	5.5%
Utilities	1,777,805	1,777,011	1,815,948	1,722,015	(93,933)	(5.2%)
Administrative Expenses	352,869	448,151	435,890	475,993	40,103	9.2%
Equipment & Supplies Expense:						
Office Supplies	12,857	13,930	12,741	16,800	4,059	31.9%
Rentals & Leases	85,312	73,224	63,360	64,224	864	1.4%
Supplies & Expenses	599,316	590,080	546,220	527,031	(19,189)	(3.5%)
Equipment Maint - Materials	846,404	735,588	839,225	821,834	(17,391)	(2.1%)
Equipment Maint - Services	1,057,225	1,067,812	989,935	1,086,775	96,840	9.8%
Non-Capital Equipment	226,263	136,837	119,155	147,208	28,053	23.5%
Subtotal: Equipment & Supplies	2,827,377	2,617,471	2,570,636	2,663,872	93,236	3.6%
Chemicals	1,181,551	1,377,005	1,184,566	1,521,768	337,202	28.5%
Professional Services	1,105,678	859,117	881,668	848,506	(33,162)	(3.8%)
Contractual Services	1,598,442	1,665,339	1,795,092	1,644,084	(151,008)	(8.4%)
Memberships & Meetings	60,441	75,707	70,720	87,544	16,824	23.8%
Conferences & Travel	74,985	118,495	102,305	119,533	17,228	16.8%
Training	129,764	172,738	156,894	162,596	5,702	3.6%
TOTAL EXPENDITURES	\$ 22,176,054	\$ 23,912,933	\$ 23,920,843	\$ 24,979,821	\$ 1,058,978	4.4%

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Total Operating Expenditures by Division

Compared to the 2017-18 Forecast, Divisional changes in budget ranged according to individual strategies. Analysis of each Division is described on the following several pages.

Silicon Valley Clean Water Expenditure Summary - By Division						
Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Operations	\$ 8,114,729	\$ 8,781,014	\$ 8,798,423	\$ 9,187,056	\$ 388,633	4.4%
Maintenance	5,845,387	6,091,043	6,072,934	6,359,611	286,677	4.7%
Laboratory Services	1,490,022	1,721,762	1,616,865	1,764,871	148,006	9.2%
Environmental Services	960,711	1,095,896	1,077,279	1,173,532	96,253	8.9%
Engineering	359,802	554,380	509,346	763,033	253,687	49.8%
Safety	331,501	381,463	365,804	401,813	36,009	9.8%
Information Services	1,682,948	1,697,101	1,685,483	1,687,833	2,350	0.1%
Administration	3,390,955	3,589,562	3,794,719	3,642,071	(152,648)	(4.0%)
TOTAL	\$22,176,054	\$ 23,912,222	\$23,920,843	\$24,979,821	\$1,058,978	4.4%

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Operations

The Operations Division treats the wastewater of the Member Agencies economically and efficiently while meeting or exceeding all requirements of the National Pollutant Discharge Elimination System (NPDES) permit. A stable, well-trained work force monitors and controls process stability while striving to develop new and better operating methods.

The Division has a total of 24 full-time equivalent positions including an Operations Director and three Operations Supervisors. Staff also includes eight Senior Operators, seven Operators, three Utility Workers, and an Administrative Assistant. The Division also includes costs associated with the Wastewater Superintendent position. There are no changes in headcount planned for next year.

Operations Department Expenditures						
Description	Adopted			Proposed	\$	%
	2016-17	2017-18	2017-18			
	Actual	Budget	Forecast	Budget	Incr/(Decr) v. Forecast	Incr/(Decr) v. Forecast
Personnel:						
Salaries	\$ 2,885,673	\$ 3,110,518	\$ 3,120,080	\$ 3,298,328	\$ 178,248	5.7%
Overtime	161,317	136,907	136,763	148,103	11,340	8.3%
Retirement Benefit Contributions	160,849	359,123	353,018	394,653	41,635	11.8%
Health Insurance	489,357	512,463	500,020	497,786	(2,234)	(0.4%)
Workers' Compensation	67,882	81,215	73,317	82,519	9,202	12.6%
Health Insurance - Retiree	217,659	222,613	223,302	242,208	18,906	8.5%
Medicare	43,930	47,425	46,602	50,471	3,869	8.3%
Subtotal: Personnel Costs	4,026,668	4,470,263	4,453,101	4,714,068	260,967	5.9%
Utilities	1,628,314	1,597,671	1,656,923	1,551,375	(105,548)	(6.4%)
Administrative Expenses	58	-	-	-	-	
Equipment & Supplies Expense:						
Rentals & Leases	41,316	13,500	6,750	-	(6,750)	(100.0%)
Supplies & Expenses	15,419	702	5,713	702	(5,011)	(87.7%)
Equipment Maint - Materials	5,072	-	238	-	(238)	(100.0%)
Equipment Maint - Services	563	-	89	-	(89)	(100.0%)
Non-Capital Equipment	21,602	2,705	4,754	15,096	10,342	217.5%
Subtotal: Equipment & Supplies	83,973	16,907	17,544	15,798	(1,746)	(10.0%)
Chemicals	1,181,551	1,377,005	1,184,566	1,521,768	337,202	28.5%
Contractual Services	1,157,720	1,263,140	1,433,890	1,316,019	(117,871)	(8.2%)
Memberships & Meetings	1,619	7,920	4,527	7,884	3,357	74.2%
Conferences & Travel	6,160	7,440	9,489	22,104	12,615	133.0%
Training	28,666	40,668	38,383	38,040	(343)	(0.9%)
TOTAL EXPENDITURES	\$ 8,114,729	\$ 8,781,014	\$ 8,798,423	\$ 9,187,056	\$ 388,633	4.4%

As compared to the 2017-18 Forecast, significant increases / decreases in the operating budget for Operations include:

- Personnel costs will increase \$261 thousand, or 5.9%. The Operations Division had a Senior Operator position vacant early in this fiscal year. This vacancy contributes \$110 thousand of the increase. The remaining increase is for annual adjustments in compensation. Overtime increases by \$11 thousand based upon a three-year trailing average.
- Budgeted Utilities Expense will decrease for the second consecutive year. This time by \$106 thousand, or 6.4%. This decrease will occur despite a projected PG&E rate increase of 10%, worth \$350 thousand. Not only will cogeneration engine performance improve next to reduce energy demand and save \$279 thousand, SVCW will replace aeration mixing equipment and introduce new technologies to improve the removal of suspended solids which combined save \$238 thousand in electricity.
- Chemicals will increase by \$337 thousand (28%) next year. Much of this increase is attributable to equipment changes in the sludge thickening process. Existing gravity thickeners are now being replaced with Rotary Drum Thickeners (RDTs). While RDT processes improves the removed percentage of suspended solids, it requires approximately \$130 thousand more in polymer. This cost, however produces a clearer effluent that subsequently reduces the amount of energy used in secondary treatment processes.

Additionally, chemical costs will increase as a preventative measure to reduce the speed of corrosion in the force main. Approximately \$121 thousand more in nitrate use.

- Contractual Services will decrease by \$118 thousand (8.2%) in 2018-19. Improvements in equipment and process have improved the extent to which biosolids are dried, which reduces the weight and cost of hauling and disposal.

Maintenance

The Maintenance Division is a service and support function whose objective is to assure that all equipment and facilities operate in a reliable and safe manner through well-planned and administered programs of preventative maintenance, corrective maintenance, replacement, and modification. Maintenance programs are implemented by a well-trained staff utilizing modern administrative and technical tools and skills.

There are 23 full-time equivalent positions in the Maintenance Division. It works under the direction of the Maintenance Director, three Maintenance Supervisors, and a Planner/Scheduler Supervisor. Staff includes nine Senior Plant Mechanics, two Plant Mechanics, three Senior Instrumentation Mechanics, and three Senior Electrical Mechanics. There are no changes in headcount planned for next year.

Maintenance Services Department Expenditures						
Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel:						
Salaries	\$ 2,783,235	\$ 3,051,993	\$ 3,083,347	\$ 3,211,494	\$ 128,147	4.2%
Overtime	79,857	46,117	47,556	61,810	14,254	30.0%
Retirement Benefit Contributions	156,589	356,861	352,650	394,649	41,999	11.9%
Health Insurance	449,909	506,242	493,002	542,043	49,041	9.9%
Workers' Compensation	66,290	81,722	74,457	81,740	7,283	9.8%
Health Insurance - Retiree	202,551	213,337	215,445	232,116	16,671	7.7%
Medicare	41,352	45,182	45,267	48,098	2,831	6.3%
Subtotal: Personnel Costs	3,779,784	4,301,455	4,311,724	4,571,951	260,226	6.0%
Utilities	-	-	162	-	(162)	
Administrative Expenses	93	-	15	-	(15)	
Equipment & Supplies Expense:						
Office Supplies	-	-	116	-	(116)	(100.0%)
Rentals & Leases	7,873	23,496	16,630	26,496	9,866	59.3%
Supplies & Expenses	138,286	145,876	149,109	122,392	(26,717)	(17.9%)
Equipment Maint - Materials	826,355	727,092	819,759	810,084	(9,675)	(1.2%)
Equipment Maint - Services	856,748	736,512	648,803	742,272	93,469	14.4%
Non-Capital Equipment	50,550	32,160	11,688	24,000	12,312	105.3%
Subtotal: Equipment & Supplies	1,879,812	1,665,136	1,646,104	1,725,244	79,140	4.8%
Professional Services	11,498	-	-	-	-	0.0%
Contractual Services	113,828	61,896	59,592	6,396	(53,196)	(89.3%)
Memberships & Meetings	4,465	4,536	4,171	5,880	1,709	41.0%
Conferences & Travel	4,071	7,680	3,840	10,475	6,635	172.8%
Training	51,836	50,340	47,325	39,665	(7,660)	(16.2%)
TOTAL EXPENDITURES	\$ 5,845,387	\$ 6,091,043	\$ 6,072,934	\$ 6,359,611	\$ 286,677	4.7%

As compared to the 2017-18 Forecast, significant increases / decreases in the operating budget for Maintenance include:

- Personnel costs will increase \$260 thousand, or 6.0%. largely due to contractual increases in wages (step increases and cost-of-living adjustments) and associated benefits.
- Supplies Expenses will decrease by \$27 thousand (17.9%) and Equipment Materials Expense by \$9.7 thousand, as the Maintenance Division transfers fleet management to the Purchasing group in the Administration Division.
- Contractual Services will decrease by \$53 thousand (89%), as the Maintenance Division transfers facilities management costs to the Purchasing group in the Administration Division.

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Laboratory Services

The Laboratory Services Division performs all laboratory support for process control and regulatory compliance. Staff is scientifically trained and technically experienced to perform the collection and analysis of wastewater samples.

The Laboratory Director oversees a staff of two Water Quality Specialists, a Lab Analyst I, a Lab Analyst II, a Senior Lab Analyst, and a Lab Assistant. Due to regulatory changes that will increase the volume of samples and lab testing, the 2018-19 Budget proposes to increase the Lab Assistant from part-time to full-time next year.

Laboratory Services Department Expenditures							
Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast	
Personnel:							
Salaries	\$ 739,706	\$ 804,919	\$ 768,929	\$ 849,969	\$ 81,040	10.5%	
Overtime	15,915	16,371	14,897	17,756	2,859	19.2%	
Retirement Benefit Contributions	33,322	93,308	87,767	98,386	10,619	12.1%	
Health Insurance	107,580	112,270	104,901	138,623	33,721	32.1%	
Workers' Compensation	18,894	23,157	19,916	22,456	2,540	12.8%	
Health Insurance - Retiree	62,552	64,929	59,865	64,680	4,815	8.0%	
Medicare	11,686	12,819	12,005	13,217	1,213	10.1%	
Subtotal: Personnel Costs	989,655	1,127,772	1,068,279	1,205,086	136,807	12.8%	
Administrative Expenses	200,528	268,101	251,770	281,593	29,823	11.8%	
Equipment & Supplies Expense:							
Rentals & Leases	836	996	922	996	74	8.0%	
Supplies & Expenses	101,599	117,996	116,001	105,000	(11,001)	(9.5%)	
Equipment Maint - Materials	5,597	4,752	6,512	8,004	1,492	22.9%	
Equipment Maint - Services	40,486	45,320	40,915	46,779	5,864	14.3%	
Non-Capital Equipment	30,555	29,568	17,475	23,112	5,637	32.3%	
Subtotal: Equipment & Supplies	179,073	198,632	181,825	183,891	2,066	1.1%	
Professional Services	22,556	31,000	39,481	6,000	(33,481)	(84.8%)	
Contractual Services	66,639	63,943	51,246	55,221	3,975	7.8%	
Memberships & Meetings	10,136	8,360	8,170	7,982	(188)	(2.3%)	
Conferences & Travel	8,480	11,700	9,371	8,500	(871)	(9.3%)	
Training	12,954	12,254	6,722	10,634	3,912	58.2%	
TOTAL EXPENDITURES	\$ 1,490,022	\$ 1,721,762	\$ 1,616,865	\$ 1,758,907	\$ 142,042	8.8%	

As compared to the 2017-18 Forecast, significant increases / decreases in the operating budget for Laboratory Services include:

- Personnel costs will increase \$137 thousand, or 12.8%. In 2017-18, one Laboratory Assistant position has been vacant as the Division used temporary help services in lieu of a permanent hire. This Budget proposes to fill the Laboratory Assistant position with a full-time person to respond to recent changes in SVCW's NPDES permit that will require additional sampling and testing. Concurrently, personnel costs will increase due to contractual increases in wages (step increases and cost-of-living adjustments) and associated benefits.
- Administrative Expenses will increase by \$30 thousand, or 11.8%. SVCW participates in a regional study of San Francisco Bay water quality, which increased the amount of scientific funds needed to produce its report on nutrient loading.
- Professional Services will decline by \$33.4 thousand (84%). During 2017-18 SVCW retained a consultant to assist in renewal of its five-year NPDES permit. This activity will not be needed next year.

Environmental Services

The Environmental Services Division supports process control and regulatory compliance. The experienced staff collects samples from on site and in the field, and also administers the Industrial Pretreatment and the Pollution Prevention Programs. The Division issues permits to entities that handle wastewater, groundwater discharge, septic and restaurant grease. It also conducts sanitary sewer complaint response, fats oils and grease inspections and performs public and educational outreach for the communities within our service area.

The Division includes an Environmental Services Director who oversees a Senior Environmental Compliance Inspector, two Environmental Compliance Inspectors, and a Pollution Prevention Specialist. There are no changes in headcount planned for next year.

Environmental Services Department Expenditures							
Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast	
Personnel:							
Salaries	\$ 652,625	\$ 684,644	\$ 687,833	\$ 717,491	\$ 29,658	4.3%	
Overtime	6,536	9,348	4,961	8,303	3,342	67.4%	
Retirement Benefit Contributions	35,785	79,819	80,078	90,202	10,124	12.6%	
Health Insurance	78,267	80,298	80,562	85,451	4,889	6.1%	
Workers' Compensation	15,237	18,211	16,467	18,165	1,698	10.3%	
Health Insurance - Retiree	45,844	46,378	46,705	50,460	3,755	8.0%	
Medicare	9,395	10,064	9,933	10,662	729	7.3%	
Subtotal: Personnel Costs	843,689	928,760	926,540	980,734	54,195	5.8%	
Administrative Expenses	31,957	37,045	17,612	40,757	23,145	131.4%	
Equipment & Supplies Expense:							
Rentals & Leases	-	-	-	1,320	1,320	0.0%	
Supplies & Expenses	9,926	14,004	14,044	10,500	(3,544)	(25.2%)	
Equipment Maint - Materials	-	996	498	996	498	100.0%	
Equipment Maint - Services	-	1,200	600	1,200	600	100.0%	
Non-Capital Equipment	234	12,600	12,699	6,600	(6,099)	(48.0%)	
Subtotal: Equipment & Supplies	10,160	28,800	27,840	20,616	(7,224)	(25.9%)	
Professional Services	31,750	24,500	33,500	50,000	16,500	49.3%	
Contractual Services	35,790	51,948	47,779	55,244	7,465	15.6%	
Memberships & Meetings	1,342	3,455	1,661	3,813	2,152	129.5%	
Conferences & Travel	4,249	13,000	16,500	12,900	(3,600)	(21.8%)	
Training	1,775	8,388	5,847	9,468	3,621	61.9%	
TOTAL EXPENDITURES	\$ 960,711	\$ 1,095,896	\$ 1,077,279	\$ 1,173,532	\$ 96,253	8.9%	

As compared to the 2017-18 Forecast, significant increases / decreases in the operating budget for Environmental Services include:

- Personnel costs will increase \$54 thousand, or 5.8%, the result of anticipated increases in pay and associated benefits.
- Administrative Expenses will increase by \$23 thousand, due to the timing of renewing certain air permits.
- Professional Services will increase by \$16.5 thousand as SVCW prepares to analyze its local limits requirements.

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Engineering

The Engineering Division is responsible for improvements and replacement of SVCW capital facilities. Engineering staff provides oversight, direction, and management of the capital improvement projects. It works to build safe, innovative, sustainable, efficient, and cost-effective infrastructure that ensures the longevity of SVCW facilities and protects the investments made by customers. Engineering achieves this through building successful partnerships with peers, consultants, and contractors from a project's inception through construction and into start-up with the highest levels of professionalism, integrity, and fairness.

The Division works under the direction of the Engineering Director. The staff includes a Senior CIP Manager, four Senior Engineers, one Administrative Assistant, and two Engineering Interns during the summer. Engineering labor is predominantly charged to capital projects; therefore the 2017-19 Operating Budget contains 75% of the Engineering Director, 40% of a Senior Engineer, and 100% of an operating engineer.

Engineering Department Expenditures						
Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel:						
Salaries	\$ 149,768	\$ 222,336	\$ 169,700	\$ 389,184	\$ 219,485	129.3%
Retirement Benefit Contributions	(116,114)	26,680	18,772	44,546	25,773	137.3%
Health Insurance	16,248	21,486	17,507	51,979	34,472	196.9%
Payroll Tax	53	-	1,898	-	(1,898)	(100.0%)
Workers' Compensation	2,562	3,863	2,278	897	(1,382)	(60.6%)
Health Insurance - Retiree	7,745	11,594	8,838	21,698	12,860	145.5%
Medicare	2,033	3,224	2,463	5,643	3,180	129.1%
Subtotal: Personnel Costs	62,296	289,184	221,456	513,947	292,491	132.1%
Utilities	315	-	315	-	(315)	
Equipment & Supplies Expense:						
Office Supplies	-	-	851	-	(851)	(100.0%)
Supplies & Expenses	588	8,616	8,536	8,616	80	0.9%
Equipment Maint - Services	-	-	7,133	-	(7,133)	
Subtotal: Equipment & Supplies	588	8,616	16,520	8,616	(7,904)	(47.8%)
Professional Services	251,703	184,996	217,402	189,000	(28,402)	(13.1%)
Memberships & Meetings	10,874	20,679	8,188	20,870	12,682	154.9%
Conferences & Travel	32,370	39,000	32,949	24,000	(8,949)	(27.2%)
Training	1,655	11,905	12,516	6,600	(5,916)	(47.3%)
TOTAL EXPENDITURES	\$ 359,802	\$ 554,380	\$ 509,346	\$ 763,033	\$ 253,687	49.8%

As compared to the 2017-18 Forecast, significant increases / decreases in the operating budget for Engineering include:

- Personnel costs will increase \$292 thousand, approximately \$240 thousand of which is for reassignment of labor to the Operating Budget. As the CIP matures and completes projects, the Engineering Division is shifting resources to support wastewater operations. The remaining increase represents ordinary inflationary pressures.

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Safety

The Safety Division develops, implements, and oversees all safety programs for the agency. It is staffed with one Health and Safety Director. There are no changes in headcount planned for next year.

Safety Department Expenditures								
Description	2016-17		Adopted		Proposed		\$	%
	Actual		2017-18	2017-18	2018-19		Incr/(Decr)	Incr/(Decr)
			Budget	Forecast	Budget		v. Forecast	v. Forecast
Personnel:								
Salaries	\$	153,734	\$	159,445	\$	175,232	\$	183,951
Retirement Benefit Contributions		(13,691)		18,536		1,163		13,099
Health Insurance		26,291		26,812		28,031		28,735
Workers' Compensation		3,466		4,204		4,034		4,562
Health Insurance - Retiree		9,240		9,276		9,891		10,092
Medicare		2,141		2,313		2,460		2,667
Subtotal: Personnel Costs		181,182		220,584		235,164		243,106
Administrative Expenses		17,144		25,500		20,425		25,500
Equipment & Supplies Expense:								
Rentals & Leases		695		-		-		-
Supplies & Expenses		68,990		75,744		58,686		70,682
Equipment Maint - Materials		9,380		2,748		1,961		2,750
Equipment Maint - Services		2,076		6,000		3,126		6,000
Non-Capital Equipment		632		2,604		1,899		2,800
Subtotal: Equipment & Supplies		81,772		87,096		65,672		82,232
Contractual Services		35,816		20,154		24,876		26,400
Memberships & Meetings		5,563		2,760		860		2,760
Conferences & Travel		2,143		5,365		4,532		3,815
Training		7,387		20,004		14,275		18,000
TOTAL EXPENDITURES	\$	331,501	\$	381,463	\$	365,804	\$	401,813
							\$	36,009
								9.8%

As compared to the 2017-18 Forecast, significant increases / decreases in the operating budget for Safety include:

- Personnel costs will change \$8 thousand (3.4%), the result of anticipated increases in pay and associated benefits.
- Supplies & Expenses will increase by nearly \$12 thousand as the purchase of certain supplies was deferred in the current year.

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Information Services

The Information Services Division manages all computers and information systems of the agency. The Information Services Director oversees two Senior Information System Analysts.

Information Services Department Expenditures							
Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast	
Personnel:							
Salaries	\$ 451,515	\$ 460,536	\$ 474,516	\$ 512,648	\$ 38,131	8.0%	
Overtime	16,563	17,143	15,911	-	(15,911)	(100.0%)	
Retirement Benefit Contributions	39,220	53,115	61,760	88,115	26,355	42.7%	
Health Insurance	41,600	42,799	44,175	46,656	2,481	5.6%	
Workers' Compensation	11,127	12,905	11,836	13,186	1,349	11.4%	
Health Insurance - Retiree	27,720	27,827	28,523	30,276	1,753	6.1%	
Medicare	6,951	7,183	7,235	7,710	475	6.6%	
Subtotal: Personnel Costs	594,697	621,507	643,957	698,590	54,634	8.5%	
Utilities	148,681	179,340	158,548	170,640	12,092	7.6%	
Equipment & Supplies Expense:							
Rentals & Leases	33,824	34,200	37,745	34,200	(3,545)	(9.4%)	
Supplies & Expenses	186,523	150,600	122,477	132,900	10,423	8.5%	
Equipment Maint - Services	157,353	278,780	288,484	257,380	(31,104)	(10.8%)	
Non-Capital Equipment	121,524	56,000	66,823	75,600	8,777	13.1%	
Subtotal: Equipment & Supplies	499,224	519,580	515,529	500,080	(15,449)	(3.0%)	
Professional Services	297,036	219,996	252,658	231,000	(21,658)	(8.6%)	
Contractual Services	130,836	135,000	92,792	64,000	(28,792)	(31.0%)	
Memberships & Meetings	1,668	1,682	739	1,523	784	106.1%	
Conferences & Travel	1,310	7,000	3,972	7,000	3,028	76.2%	
Training	9,496	12,996	17,288	15,000	(2,288)	(13.2%)	
TOTAL EXPENDITURES	\$ 1,682,948	\$ 1,697,101	\$ 1,685,483	\$ 1,687,833	\$ 2,350	0.1%	

As compared to the 2017-18 Forecast, total expenditures in the Information Services Division will remain flat. Significant variances include:

- Personnel costs will increase \$55 thousand, or 8.5%, for anticipated increases in pay and associated benefits. This figure also recognizes the elimination of overtime, as technical staff are reclassified to exempt status beginning FY 2018-19.
- Utilities will increase by \$12 thousand (7.9%) as telecommunication rates increase for remote connectivity to pump stations.
- The Division will experience decreases in Equipment Maintenance Services next year, as certain support activities in the current fiscal year will not reoccur next year.
- As Information Systems Division staff deploy new improvements and sunset older technology, the amount spent on Professional and Contractual Services will decline.

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Administrative Services

The Administrative Services Division provides legal, financial, personnel, and administrative support to the Commission, General Manager, and other Divisions. It is committed to presenting a positive and professional image of SVCW to the general public and Member Agencies. The Division is responsible for accounting, human resources, purchasing, risk management, and asset management. Costs for the Agency Commission, Controller, Attorney, Manager, Assistant Manager, and CFO are included in the Administrative Services Division. Additionally, certain accounting and data processing services are provided by Redwood City.

The Division works under the direction of the Manager and Chief Financial Officer. The Administrative Services Director retired in December 2017. Administrative staff includes 1.63 Assistants, one Human Resources Director, and one Materials Services Supervisor (with a staff of two Purchasing Coordinators). The Chief Financial Officer manages one Financial Analyst, two Accountants, one Financial Analyst, and a Business Analyst. To prepare for the implementation of a new accounting system, an Accounting Supervisor Position was added during 2017-18.

Administrative Services Department Expenditures						
Description	2016-17 Actual	Adopted 2017-18 Budget	2017-18 Forecast	Proposed 2018-19 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel:						
Salaries	\$ 2,053,216	\$ 2,160,939	\$ 2,310,422	\$ 2,060,928	\$ (249,494)	(10.8%)
Overtime	25,649	7,036	16,092	14,178	(1,914)	(11.9%)
Other Employee Benefits	4,800	2,409	20,162	-	(20,162)	(100.0%)
Retirement Benefit Contributions	106,970	249,324	258,281	243,842	(14,439)	(5.6%)
Health Insurance	229,993	252,919	263,116	302,595	39,478	15.0%
Payroll Tax	2,418	-	1,219	-	(1,219)	0.0%
Workers' Compensation	13,059	14,498	15,472	14,940	(532)	(3.4%)
Health Insurance - Retiree	123,101	122,901	128,660	133,719	5,059	3.9%
Medicare	29,965	31,637	33,134	30,262	(2,872)	(8.7%)
Subtotal: Personnel Costs	2,589,172	2,841,662	3,046,558	2,800,463	(246,095)	(8.1%)
Administrative Expenses	103,089	117,505	146,103	128,143	(17,960)	(12.3%)
Equipment & Supplies Expense:						
Office Supplies	12,857	13,930	11,776	16,800	5,024	42.7%
Rentals & Leases	767	1,032	1,278	1,212	(66)	(5.1%)
Supplies & Expenses	77,984	76,542	74,965	76,239	1,274	1.7%
Non-Capital Equipment	1,166	1,200	3,310	-	(3,310)	(100.0%)
Subtotal: Equipment & Supplies	92,775	92,704	99,921	127,395	27,474	27.5%
Professional Services	491,135	398,625	362,607	372,506	9,899	2.7%
Contractual Services	57,813	69,258	67,030	120,804	53,774	80.2%
Memberships & Meetings	24,774	26,315	36,606	36,832	226	0.6%
Conferences & Travel	16,202	27,310	21,501	30,739	9,238	43.0%
Training	15,995	16,183	14,393	25,189	10,796	75.0%
TOTAL EXPENDITURES	\$ 3,390,955	\$ 3,589,562	\$ 3,794,719	\$ 3,642,071	\$ (152,648)	(4.0%)

As compared to the 2017-18 Forecast, significant increases / decreases in the operating budget for Administrative Services include:

- Personnel costs will decrease \$246 thousand, or 8.1%. The Division experienced the retirement of the Administrative Director position, which is not being filled next year. Additionally, the Chief Engineer / Assistant Manager is increasingly focused on the RESCU program, causing associated labor costs to be allocated to the project. Other ordinary inflationary increases for step and cost-of-living adjustments are budgeted.
- Administrative expenses will decrease, as the current year experienced a placement fee associated with recruiting an Administrative Assistant position for Engineering.
- Contractual Services will increase as responsibility for fleet and facilities has transferred from the Maintenance Division to Administration.

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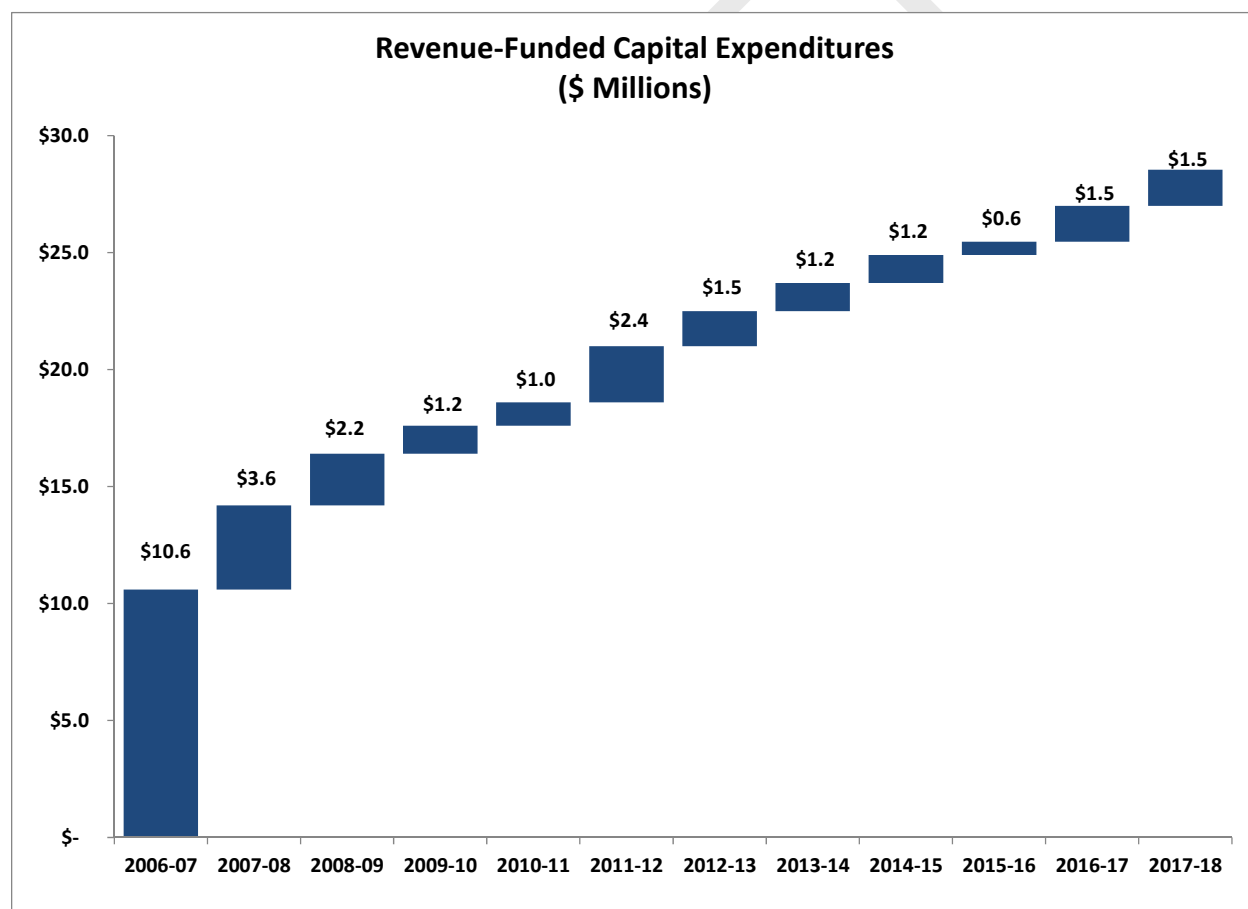
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SECTION 4 – REVENUE-FUNDED CAPITAL EXPENDITURES

Summary:

Revenue-Funded Capital Expenditures are for capital projects that less than \$1 million and completed within one year. These projects offer identifiable improvements in the short term. Revenue-funded capital expenditures may include minor construction projects, major maintenance and rehabilitation projects, planning studies, and preliminary engineering analysis for major capital improvements. It is therefore appropriate to fund such projects using available cash funds rather than financing them over 30 years.

Since 2006-07, SVCW has spent approximately \$27 million on Revenue-Funded capital expenditures. Prior to formally adopting the Capital Improvement Program in fiscal year 2008-09, Member Agencies made large cash contributions of \$10.6 million that were needed to address immediate project needs. Since 2008-09, however, SVCW has averaged \$1.4 million annually in Revenue-Funded capital expenditures.



The 2018-19 Budget of \$1.49 million for Revenue-Funded capital expenditures includes:

2018-19 Budget, Revenue-Funded Capital	
Description	One-time Cost
Plant Process	
3-water system expansion	\$ 400,000
Spent Backwash pump replacements	260,000
Recycled Water Line	150,000
Cogen and emergency generators exhaust extensions	45,000
Control Building HVAC control system upgrade	25,000
Dechlorination system upgrade	25,000
Stormwater Pump Replacement	25,000
Subtotal	\$ 930,000
Technology	
Cisco HyperFlex	\$ 225,000
Wonderware SCADA Upgrade	120,000
e-File Structure & Retention	60,000
Subtotal	\$ 405,000
Equipment	
Spyder Crane, URW094	\$ 60,000
Articulating-boom lift	55,000
Forklift	35,500
Subtotal	\$ 150,500
GRAND TOTAL, REVENUE-FUNDED CAPITAL	\$ 1,485,500

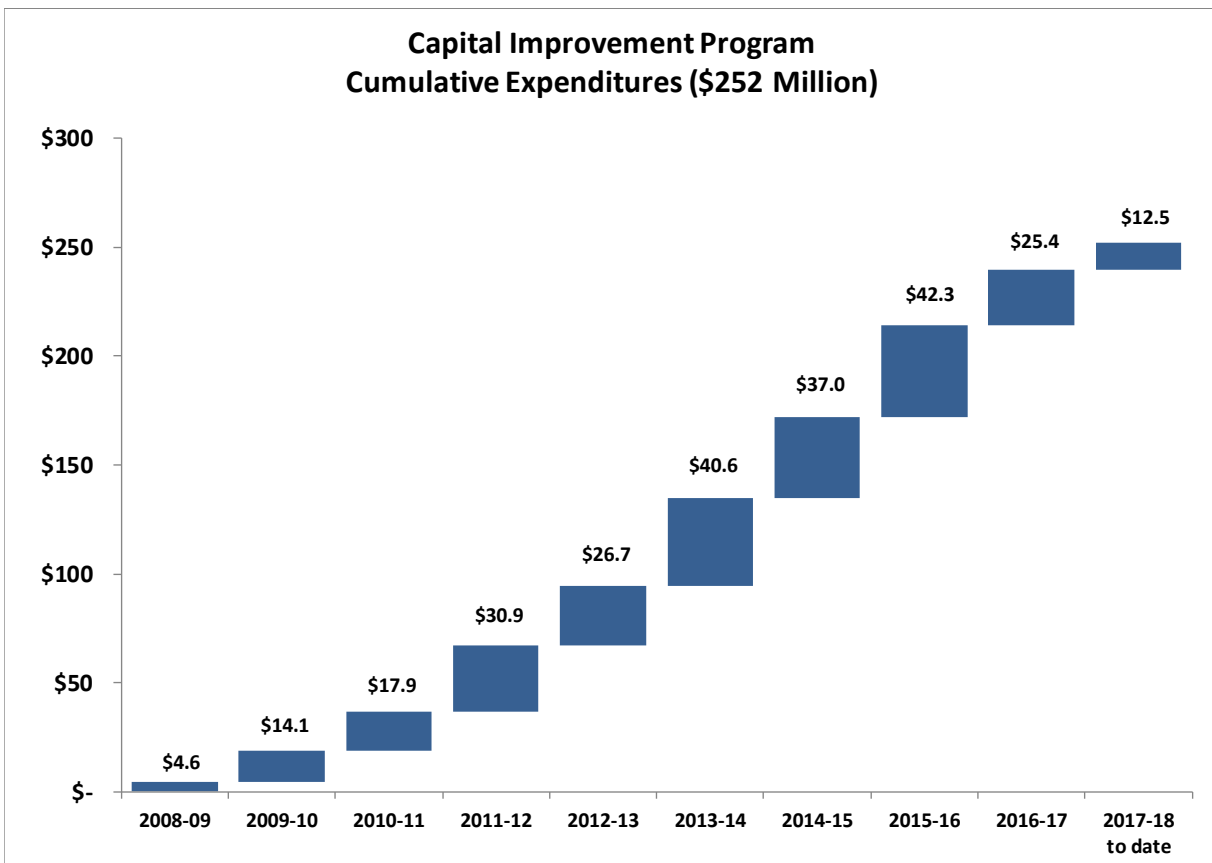
The above projects will maintain critical operations, increase productivity, and reduce operating costs. Key activities include:

- **Plant Processes** – The 3-water system provides pressurized, chlorinated water for cleaning, wash-down, and industrial use throughout the plant and must be expanded to accommodate additional uses. Other improvements include replacement of certain pumps, repairs of recycled water lines, and adjustments to exhaust systems and HVAC controls.
- **Technology** – Server hardware has reached the end of its useful life and must be replaced. Additionally, the Supervisory Control and Data Acquisition (SCADA) system will be upgraded to current licenses. Finally, as SVCW complies with state-mandated record retention guidelines, it will acquire e-File software.
- **Equipment** – A Spyder Crane is proposed to help lift heavy objects and reduce the risk of injuries. A boom lift will support in-house maintenance of elevated equipment. There is also a need to replace a forklift that has reached the end of its useful life.

SECTION 5 – CAPITAL IMPROVEMENT PROGRAM & DEBT SERVICE

Background:

SVCW’s wastewater treatment plant was constructed in 1980 and connected to an influent conveyance system built in 1969. In 2006, engineering studies determined the majority of SVCW fixed assets were beyond their useful lives and needed replacement. SVCW therefore initiated its CIP to replace and rehabilitate wastewater conveyance and treatment systems in a structured and prioritized manner. Now in its tenth year, the CIP has completed over 100 projects and spent \$252 million.

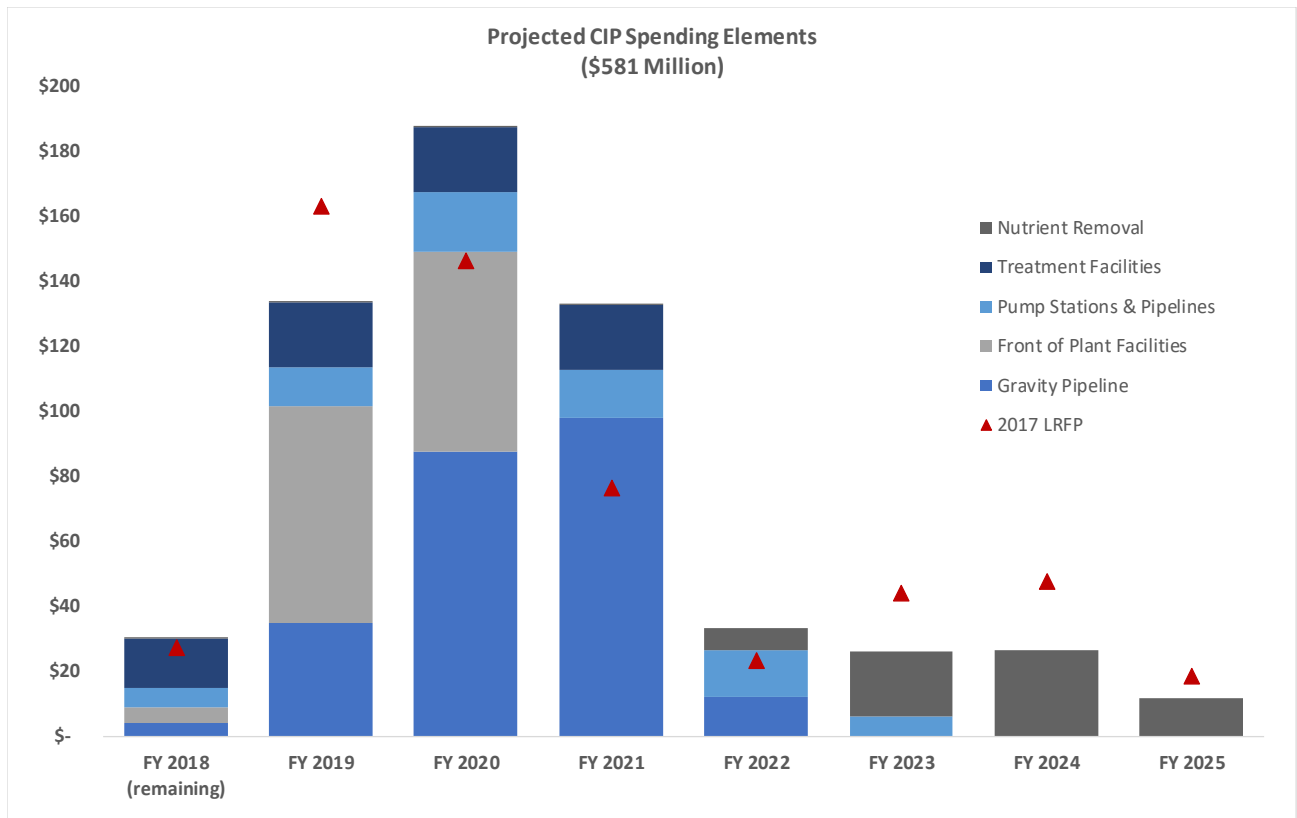


CIP Expenditures since Inception (\$ Millions)	
Program	Value
Conveyance System	\$ 89.5
Energy and Automation	77.3
General Plant Facilities	35.2
Solids Handling	17.8
Plant Process	17.2
Corrosion and Odor Control	13.6
Nutrient Removal	0.6
CIP Support	0.8
TOTAL	\$ 252.1

CIP Projected Expenditures:

Each year, SVCW produces a LRFP to describe the total cash flows required by SVCW over the next decade. This includes funding for all SVCW operations, revenue-funded capital projects, Capital Improvement Program projects and their associated debt service payments, and necessary cash reserve contributions. Meant to encourage discussion and support decision making, the LRFP provides up-to-date financial information so that Member Entities have the information needed to understand the financial implications of those decisions and to communicate with internal and external stakeholders.

The CIP is a guiding document of the LRFP, and is currently estimated at \$834 million from inception (as measured in October 2017 dollars). Recognizing the \$252 million in to-date spending, approximately \$581 million in expenditures remains scheduled through 2024-25:



The largest projects, including the gravity pipeline and front-of-plant components, will together produce capital expenditures above \$100 million for three consecutive years. As construction is completed, fixed assets of each Member Entity will increase by allocable percentages (below):

SVCW Remaining Capital Expenditures - By Fiscal Year End and Member Allocation										
		2017-18								
Member Entity, CIP Alloc.	Remaining	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total	
Belmont	9.45%	\$2.84	\$12.64	\$17.72	\$12.55	\$3.12	\$2.45	\$2.50	\$1.11	\$54.92
Redwood City	48.57%	14.62	64.94	91.09	64.51	16.01	12.57	12.85	5.70	282.30
San Carlos	15.14%	4.56	20.24	28.39	20.11	4.99	3.92	4.01	1.78	88.00
West Bay SD	26.84%	8.08	35.89	50.34	35.65	8.85	6.95	7.10	3.15	156.00
TOTAL	100.00%	\$30.10	\$133.71	\$187.54	\$132.81	\$32.96	\$25.89	\$26.46	\$11.74	\$581.22

Debt Service:

The 2018 LRFP recommends a debt implementation strategy to fully fund the remaining capital improvements. Due to the compressed timing and extensive cost of the CIP, as well as the absence of significant cash reserves, the most practical funding method is to use long-term debt. In general, the majority of the CIP is now anticipated to be funded through revenue bonds.

The LRFP is updated each year to measure SVCW financial position relative to anticipated cash flows needed from SVCW's Member Entities. After incorporating CIP construction and expenditure schedules, the LRFP-recommended strategy ensures SVCW obligations can be met while members strengthen their credit ratings.

Compared to the January 2017 LRFP, the 2018 Plan incorporated three significant changes:

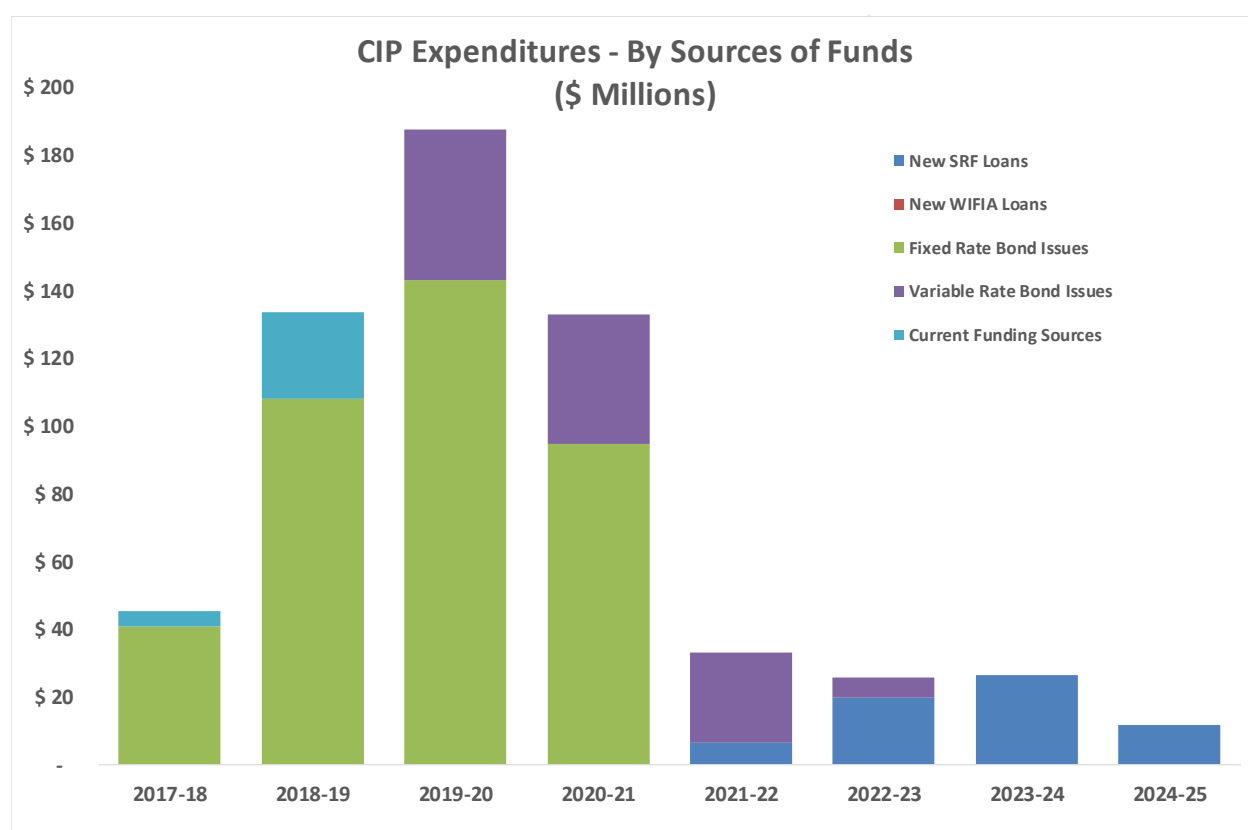
- **CIP Cost Update** – In October 2017, SVCW updated its CIP document to incorporate changes in project cost estimates, add or delete projects, and apply inflationary impacts. Combined, these factors added \$20.1 million and bring total anticipated CIP expenditures (from inception to completion in 2025) to \$834 million.
- **Construction Timing** – SVCW has made significant progress over the past year regarding large conveyance projects in the CIP. Specifically, the gravity pipeline project and the front-of-the-plant facilities are now collectively known as RESCU, or the Regional Environmental Sewer Conveyance Upgrade program. Using Progressive Design-Build (PDB) project delivery, the Authority has entered into two agreements for RESCU. While the total remaining cost of RESCU is approximately \$450 million, Engineering predicts the pace of construction will be accelerated as a result of the PDB delivery method.
- **Financing Sources** – Whereas in last year's LRFP SVCW assumed a blended debt scenario of 50/50 Bonds versus Government Loans, this updated LRFP advocates reducing the assumed debt derived from Government Loans. There has been increased competition for Governmental Loans in the wastewater industry. For example, the State Water Board, as administrator of the Clean Water State Revolving Fund (SRF) loan program, has published recent reports showing the program is oversubscribed by more than three times. The Water Board has cautioned SRF loan applicants that, unless the state takes additional funding action, it is unable to satisfy many wastewater capital programs. This LRFP therefore further reduces the amount of SRF loans assumed to be available and, instead, plans for a more conservative, bond-financing approach.

To fund CIP projects to date, SVCW has secured approximately \$427 million from a combination of Wastewater Revenue Bonds, Member Cash Contributions, SRF Loans, and Government Grants. Debt service payments associated with this budget are derived from these borrowings:

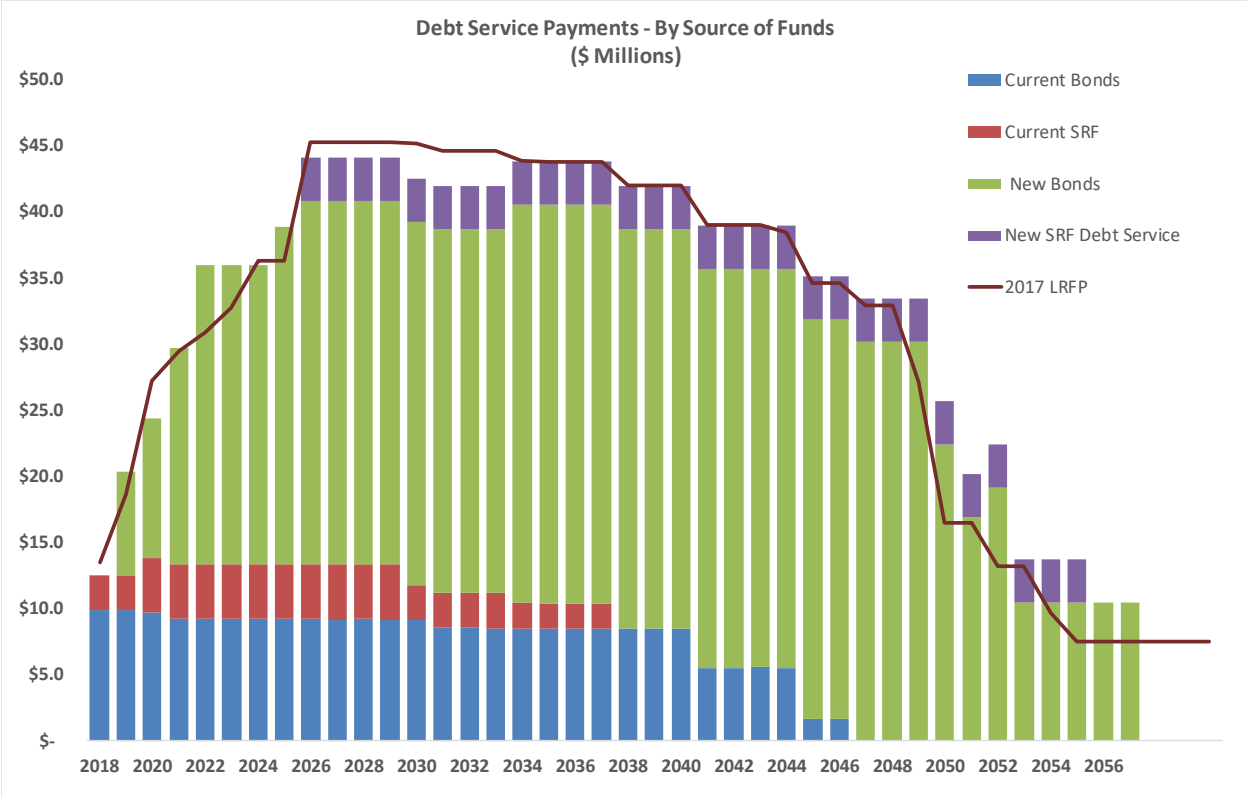
Source of CIP Funds to date (\$ millions)		
Description	All-in TIC / Interest	Proceeds
Bonds		
2008 Bonds	5.03%	\$ 10.01
2009 Bonds	5.12%	55.86
2014 Bonds	4.18%	65.54
2015 Bonds	3.75%	30.00
2018 Bonds	3.46%	148.98
Subtotal - Bonds		310.38
Cash Contributions in lieu of Debt		
Belmont (2008, 2009, 2014, 2015, 2018)		34.16
Redwood City (2015)		10.00
West Bay Sanitary District (2018)		13.02
Subtotal - Cash		57.17
State Revolving Fund Loans		
Control Building	2.60%	11.36
WWTP Improvements	1.80%	31.55
Conveyance Planning	1.60%	14.00
Subtotal - SRF		56.91
Grant Funding		
PG&E Cogeneration Grant		2.40
California Energy Commission		0.50
Subtotal - Grant Funding		2.90
TOTAL		\$ 427.36

Due to the historical lack of a sinking fund and cash reserves, the recommended debt strategy is in lieu of a pay-go cash strategy. Debt will allow SVCW to distribute costs over the expected useful lives of constructed assets and also provide fairness to Members' ratepayers by spreading costs across generations and facilitating moderate and consistent rate increases. The 2018 LRFP recognizes that, for future debt, SVCW will mostly draw from wastewater revenue bonds, with limited access to governmental loans towards the end of the CIP.

In general, CIP funding sources include 1) Capital markets by issuing publicly traded revenue bonds; 2) Government loans when available; and 3) cash that has been accrued by the Members Agencies.



Combined, the 2018 LRFP funds 84% of the remaining CIP through wastewater revenue bonds, 11% through Government Loans, and 5% through cash contributions from Member Entities. The following chart illustrates the anticipated size and allocation of future debt service.



Debt Service in 2018-19 will be \$20.39 million and is allocated to Member Entities according to JPA-defined percentage of ownership as well as their participation. As SVCW continues to fund CIP construction, debt service payments will peak in 2025-26 once significant projects are complete and all necessary debt is secured.

SVCW Aggregate Debt Service Cost							
Fiscal year end	Current Bonds	Current SRF	New Bonds	New SRF	Line of Credit	WIFIA	TOTAL
2019	\$ 9,875,615	\$ 2,630,599	\$ 7,817,668	\$ -	\$ 66,064	\$ -	\$ 20,389,946
2020	9,636,538	4,156,731	10,568,284	-	132,128	-	24,493,681
2021	9,195,000	4,156,731	16,356,359	-	-	-	29,708,090
2022	9,190,000	4,156,731	22,563,774	-	-	-	35,910,505
2023	9,186,875	4,156,731	22,561,649	-	-	-	35,905,255
2024	9,180,125	4,156,731	22,567,899	-	-	-	35,904,755
2025	9,189,125	4,156,731	25,458,251	-	-	-	38,804,107
2026	9,168,750	4,156,731	27,470,209	3,274,632	-	-	44,070,322
2027	9,159,000	4,156,731	27,474,959	3,274,632	-	-	44,065,322
2028	9,163,625	4,156,731	27,471,709	3,274,632	-	-	44,066,697
2029	9,157,125	4,156,731	27,470,209	3,274,632	-	-	44,058,697

Detailed debt service payment schedules by Member are provided as follows:

Belmont:

Belmont Debt Service Cost							
Fiscal year end	Current Bonds	Current SRF	New Bonds	New SRF	Line of Credit	WIFIA	TOTAL
2019	\$ -	\$ 178,425	\$ -	\$ -	\$ -	\$ -	\$ 178,425
2020	-	322,645	195,383	-	-	-	518,027
2021	-	322,645	742,367	-	-	-	1,065,012
2022	-	322,645	1,329,063	-	-	-	1,651,707
2023	-	322,645	1,329,063	-	-	-	1,651,707
2024	-	322,645	1,329,063	-	-	-	1,651,707
2025	-	322,645	1,602,733	-	-	-	1,925,377
2026	-	322,645	1,793,111	-	309,453	-	2,425,208
2027	-	322,645	1,793,111	-	309,453	-	2,425,208
2028	-	322,645	1,793,111	-	309,453	-	2,425,208
2029	-	322,645	1,793,111	-	309,453	-	2,425,208

Redwood City:

Redwood City Debt Service Cost							
Fiscal year end	Current Bonds	Current SRF	New Bonds	New SRF	Line of Credit	WIFIA	TOTAL
2019	\$ 5,262,051	\$ 1,315,327	\$ 4,559,729	\$ -	\$ -	\$ -	\$ 11,137,107
2020	5,122,077	2,056,569	5,566,098	-	-	-	12,744,744
2021	4,868,124	2,056,569	8,375,302	-	-	-	15,299,995
2022	4,861,338	2,056,569	11,390,229	-	-	-	18,308,136
2023	4,862,874	2,056,569	11,391,104	-	-	-	18,310,547
2024	4,854,792	2,056,569	11,393,104	-	-	-	18,304,465
2025	4,854,649	2,056,569	12,797,680	-	-	-	19,708,898
2026	4,852,061	2,056,569	13,775,038	-	1,590,489	-	22,274,156
2027	4,851,767	2,056,569	13,774,538	-	1,590,489	-	22,273,363
2028	4,850,704	2,056,569	13,774,413	-	1,590,489	-	22,272,174
2029	4,846,426	2,056,569	13,774,413	-	1,590,489	-	22,267,897

San Carlos:

San Carlos Debt Service Cost							
Fiscal Year end	Current Bonds	Current SRF	Future Bonds	New Line of Credit Interest Expense	New SRF Debt Service	New WIFIA Debt Service	TOTAL
2019	\$ 1,679,434	\$ 410,004	\$ 1,419,459	\$ -	\$ -	\$ -	\$3,508,897
2020	1,643,272	641,061	1,737,163	-	-	-	4,021,495
2021	1,570,896	641,061	2,612,497	-	-	-	4,824,453
2022	1,568,354	641,061	3,550,451	-	-	-	5,759,865
2023	1,570,271	641,061	3,552,326	-	-	-	5,763,657
2024	1,575,520	641,061	3,552,951	-	-	-	5,769,531
2025	1,574,936	641,061	3,990,777	-	-	-	6,206,773
2026	1,563,854	641,061	4,293,909	-	495,779	-	6,994,603
2027	1,562,230	641,061	4,295,659	-	495,779	-	6,994,729
2028	1,563,812	641,061	4,295,909	-	495,779	-	6,996,561
2029	1,564,312	641,061	4,294,659	-	495,779	-	6,995,811

West Bay Sanitary District:

West Bay Sanitary District Debt Service Cost							
Fiscal Year end	Current Bonds	Current SRF	Future Bonds	New Line of Credit Interest Expense	New SRF Debt Service	New WIFIA Debt Service	TOTAL
2019	\$ 2,934,129	\$ 726,843	\$ 1,838,480	\$ 66,064	\$ -	\$ -	\$ 5,565,516
2020	2,871,190	1,136,457	3,069,640	132,128	-	-	7,209,415
2021	2,755,980	1,136,457	4,626,193	-	-	-	8,518,629
2022	2,760,308	1,136,457	6,294,032	-	-	-	10,190,797
2023	2,753,730	1,136,457	6,289,157	-	-	-	10,179,343
2024	2,749,813	1,136,457	6,292,782	-	-	-	10,179,051
2025	2,759,539	1,136,457	7,067,062	-	-	-	10,963,058
2026	2,752,836	1,136,457	7,608,151	-	878,911	-	12,376,355
2027	2,745,003	1,136,457	7,611,651	-	878,911	-	12,372,022
2028	2,749,109	1,136,457	7,608,276	-	878,911	-	12,372,753
2029	2,746,387	1,136,457	7,608,026	-	878,911	-	12,369,781

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SECTION 6 – CASH RESERVES DESIGNATION

SVCW has adopted a Cash Reserves Policy that describes the goals and amounts intended to be held in reserves. The reserves can help mitigate the negative impact of revenue shortfalls from economic fluctuations, fund unforeseen expense requirements, provide stable rates for member entities, and fund future long-term capital needs. Each year during the budget process, their balances are reviewed and adjusted as needed.

- The **Operating Reserve** must be maintained at a minimum balance of 10% of the approved Operating Budget, plus \$1 million. This fund allows for continued operation in times of local, regional state, or national crisis or for unbudgeted, unexpected operational, maintenance or capital expenses approved by the SVCW Commission. The projected balance in Operating Reserves is \$3.53 million at June 30, 2018, including investment earnings. This amount exceeds the policy's required balance of \$3.48 million by approximately \$22.6 thousand which, per policy, will be credited to reduce Member Agencies' 2018-19 contributions.
- The **Capital Improvement Program Reserve** (CIP Reserve) goal is to accrue funds equal to the annual calculated depreciation of SVCW facilities to meet the long term needs of replacing capital assets when their useful life has been met. This would allow major expenses in the future to be paid for on a "pay-go" basis and limit the need for borrowing. Each year, if funds held in these reserves fall below targeted levels, SVCW makes budget adjustments in order to return to the target level. The CIP Reserve is projected to be \$17.78 million balance by June 30, 2017, which meets SRF reserve requirements. Therefore, this budget calls for 2018-19 reserve contributions of \$1 million, per Policy.

Based upon the above, total 2018-19 Reserve Designations are Adopted as follows:

Reserve Designations - 2018-19 Budget			
Description	Estimated June 30, 2018 Balance	Target June 30, 2019 Balance	Proposed 2018-19 Contributions
Operating Reserve	\$ 3,482,016	\$ 3,497,982	(15,966)
CIP Reserve	17,976,553	18,976,553	1,000,000
Emergency Capital, Replenishment	(1,130,895)	-	-
TOTAL	\$ 20,327,674	\$ 22,474,535	\$ 984,034

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