

**COMMISSION OF SILICON VALLEY CLEAN WATER
JOINT POWERS AUTHORITY
SPECIAL MEETING – Thursday, October 5, 2017
8:00 a.m.**

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

COMMISSIONERS

MAYOR JOHN SEYBERT, REDWOOD CITY – CHAIR

COUNCIL MEMBER WARREN LIEBERMAN, PhD., BELMONT – VICE CHAIR

BOARD MEMBER GEORGE S. 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.

5. SAFETY MOMENT and REPORTS

A. Safety Moment

B. Manager's Report (verbal)

C. Financial Reports

1. Investment Report

August 31, 2017

D. Engineering Projects Status Update

September 2017

E. Commission Requested Staff-Level Action Items

6. MATTERS OF COMMISSION MEMBER'S INTEREST

7. CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR

8. BUSINESS ITEMS

A. CONSIDERATION OF RESOLUTION AND MOTIONS APPROVING DESIGN-BUILD AGREEMENTS FOR STAGE 1 OF THE GRAVITY PIPELINE PROJECT (CIP #6008)

Proposed Actions:

- i. Move adoption of RESOLUTION APPROVING DESIGN BUILD AGREEMENT DOCUMENTS FOR GRAVITY PIPELINE PROJECT (CIP #6008); AUTHORIZING EXECUTION OF AGREEMENT AND AUTHORIZING MANAGER TO APPROVE CONTRACT CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID PROJECT – BARNARD-BESSAC JOINT VENTURE - (\$7,989,358.00)
- ii. Move approval of TASK ORDER SCOPE AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE GRAVITY PIPELINE PROJECT (CIP #6008) IN AN AMOUNT NOT TO EXCEED \$1,311,606.00 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – KENNEDY/JENKS CONSULTANTS
- iii. Move approval of TASK ORDER SCOPE AND BUDGET FOR CONSTRUCTION MANAGEMENT/QUALITY ASSURANCE SERVICES FOR THE GRAVITY PIPELINE PROJECT (CIP #6008) IN AN AMOUNT NOT TO EXCEED \$939,767.00 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – TANNER PACIFIC INC.

B. CONSIDERATION OF MOTIONS APPROVING TASK ORDERS FOR THE NEW 12KV SWITCHGEAR PROJECT (CIP #9807)

Proposed Actions:

- i. Move approval of TASK ORDER SCOPE OF WORK AND BUDGET FOR ELECTRICAL ENGINEERING SERVICES FOR THE NEW 12KV SWITCHGEAR PROJECT (CIP #9807) IN AN AMOUNT NOT TO EXCEED \$377,756 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – BEECHER ENGINEERING
- ii. Move approval of TASK ORDER SCOPE OF WORK AND BUDGET FOR ENGINEERING SERVICES FOR THE NEW 12KV SWITCHGEAR PROJECT (CIP #9807) IN AN AMOUNT NOT TO EXCEED \$323,972 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – KENNEDY/JENKS

C. CONSIDERATION OF RESOLUTION ADOPTING SILICON VALLEY CLEAN WATER'S 2017 CIP UPDATE PLAN AND CEQA COMPLIANCE

Proposed Action: Move adoption of RESOLUTION APPROVING AND ADOPTING THE 2017 UPDATE OF THE SILICON VALLEY CLEAN WATER CAPITAL IMPROVEMENT PROGRAM PLAN AND CORRESPONDING CEQA CONCLUSIONS

9. CLOSED SESSION – NOT USED

10. 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 – September 14, 2017
- B. CONSIDERATION OF MOTION APPROVING CLAIMS AND CHECKS DATED AUGUST 26, 2017 AND NECESSARY PAYMENTS THROUGH SEPTEMBER 22, 2017
- C. CONSIDERATION OF MOTIONS APPROVING EXPENDITURES FOR MOBILE OFFICE FACILITIES TO SERVE AS OFFICES FOR THE GRAVITY PIPELINE AND FRONT OF PLANT DESIGN-BUILD TEAMS

Proposed Actions:

- i. Move approval of DEPOSIT PAID TO MOBILE MODULAR IN THE AMOUNT OF \$68,927 – MOBILE MODULAR MANAGEMENT
- ii. Move approval of AUTHORIZATION FOR MANAGER TO ISSUE A CONTRACT CHANGE ORDER FOR FRONT OF PLANT SITE CIVIL WORK IN AN AMOUNT NOT TO EXCEED \$250,000 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – TEICHERT CONSTRUCTION

SAFETY MOMENT**Keeping Violence out of the Workplace**

Violence in the workplace takes many forms, from raised voices and profanity or sexual harassment to threats, coercion, or intimidation to robbery or homicide. Many of us think that workplace violence consists solely of a disgruntled employee committing homicide. More commonly, it is a robbery gone awry. With proper planning, an employer can prepare the workplace for incidents of violence. To assess a workplace's vulnerability to violence, ask yourself these questions.

Is Your Office Secure?

- ☐ Do you have easy-to-use phone systems with emergency buttons, sign-in policies for visitors, panic buttons, safe rooms, security guards, office access controls, good lighting, safety training?
- ☐ Does your employer take care in hiring and firing?
 - Before hiring, are employment gaps, history, references, and criminal and educational records thoroughly examined?
 - Are termination procedures defined clearly with attention to advance notice, severance pay, and placement services?
- ☐ Could you recognize potentially violent employees? Signs of stress that could erupt into violence include:
 - Depression
 - frequent absences
 - talking in a louder-than-normal voice
 - being startled easily
 - increased irritability
 - impatience
 - concentration and memory problems.
- ☐ Are you encouraged to report unusual or worrisome behavior?
- ☐ Is there a clear, written policy that spells out procedures in cases of violence and sanctions for violators?
- ☐ Do you know to whom you should report unusual behaviors?
- ☐ Do you work in a supportive, harmonious environment? Is there a culture of mutual respect?
- ☐ Does your employer provide an employee assistance program?

Once you have assessed your workplaces vulnerability to violence you should take steps to implement a workplace violence prevention program, if one is not already in place. This comprehensive program is supported by all levels of employees and addresses physical security, hiring and firing practices, and employee vulnerabilities. Work with upper management to encourage them to evaluate your workplace and help start a workplace violence prevention program where you work.

SILICON VALLEY CLEAN WATER

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SILICON VALLEY CLEAN WATER
INVESTMENT LISTING
August 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% | 1.77 | 24,708 | 24,811 | 25,596 | 439 |
| FEDERAL HOME LN MTG CORP PARTN GOLD | N.A. | 02/01/2020 | 5.000% | 1.93 | 51,169 | 52,947 | 53,983 | 1,022 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 12/13/2019 | 2.375% | 1.46 | 60,000 | 61,244 | 61,842 | 892 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 02/18/2021 | 1.375% | 1.52 | 30,000 | 29,836 | 30,366 | 453 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 12/08/2017 | 3.125% | 0.99 | 85,000 | 85,447 | 85,940 | 848 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 09/17/2018 | 1.950% | 1.35 | 100,000 | 100,683 | 101,440 | 1,358 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 04/09/2018 | 1.274% | 1.09 | 50,000 | 50,048 | 49,959 | 547 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 03/09/2018 | 4.625% | 1.26 | 125,000 | 127,304 | 129,480 | 1,601 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 07/01/2019 | 4.375% | 1.41 | 50,000 | 52,679 | 52,543 | 740 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 09/13/2019 | 4.500% | 1.42 | 100,000 | 106,150 | 108,206 | 1,512 |
| FEDERAL NATL MTG ASSN | AA+ | 06/22/2020 | 1.500% | 1.44 | 30,000 | 30,057 | 30,378 | 433 |
| FEDERAL NATL MTG ASSN | AA+ | 11/30/2020 | 1.500% | 1.52 | 100,000 | 99,799 | 99,882 | 1,514 |
| FEDERAL NATL MTG ASSN | AA+ | 02/26/2021 | 1.375% | 1.56 | 100,000 | 99,460 | 99,587 | 1,552 |
| FEDERAL NATL MTG ASSN | AA+ | 11/27/2018 | 1.625% | 1.28 | 60,000 | 60,256 | 60,686 | 771 |
| FEDERAL NATL MTG ASSN GTD REMIC | NR | 09/25/2019 | 2.171% | 1.77 | 140,461 | 141,778 | 142,305 | 2,512 |
| FEDERAL NATL MTG ASSN | AA+ | 09/25/2020 | 1.750% | 1.55 | 100,000 | 100,348 | 100,822 | 1,553 |
| FEDERAL HOME LN MTG CORP MULTICLASS | NR | 11/25/2019 | 1.869% | 1.65 | 129,774 | 130,236 | 129,591 | 2,145 |
| FEDERAL HOME LN MTG CORP | AA+ | 05/30/2019 | 1.750% | 1.34 | 30,000 | 30,209 | 30,506 | 403 |
| FEDERAL HOME LN MTG CORP | AA+ | 10/02/2019 | 1.250% | 1.40 | 30,000 | 29,875 | 30,194 | 419 |
| FEDERAL HOME LN MTG CORP MULTICLASS | N.A. | 04/15/2020 | 4.000% | 1.78 | 25,585 | 25,995 | 26,352 | 462 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 12/01/2019 | 5.500% | 1.87 | 37,322 | 38,306 | 39,468 | 716 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 03/01/2020 | 5.500% | 1.83 | 12,044 | 12,106 | 12,481 | 222 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 04/01/2020 | 5.000% | 1.94 | 24,108 | 24,839 | 25,449 | 482 |
| GNMA II PASSTHRU CTF POOL #003421 | N.A. | 08/20/2018 | 4.500% | 2.16 | 8,552 | 8,563 | 8,960 | 185 |
| GENERAL ELEC CAP CORP MTN | A+ | 08/07/2018 | 1.582% | 1.43 | 75,000 | 75,140 | 74,771 | 1,078 |
| IOWA FIN AUTH REV ST REVOLVING FD | AAA | 08/01/2018 | 3.280% | 1.33 | 50,000 | 50,857 | 50,857 | 676 |
| MCDONALDS CORP MED TERM NT FR | BBB+ | 10/15/2017 | 5.800% | 1.57 | 25,000 | 25,117 | 25,583 | 395 |
| NORTH ST PAUL MAPLEWOOD MINN I GO | AA | 02/01/2018 | 5.000% | 1.33 | 50,000 | 50,714 | 50,798 | 672 |
| SMALL BUSINESS ADMIN GTD LN POOL | N.A. | 02/25/2019 | 4.075% | 2.86 | 29,997 | 30,282 | 31,126 | 866 |
| U S BANCORP MTNS BK ENT FR | AA- | 11/15/2018 | 1.950% | 1.51 | 50,000 | 50,242 | 50,076 | 759 |
| UNIVERSITY CALIF REVS FOR PREV GEN | AA | 07/01/2019 | 1.796% | 1.71 | 50,000 | 50,120 | 49,712 | 855 |
| WELLS FARGO & CO NEW SR GLBL NT | A+ | 12/11/2017 | 5.625% | 1.52 | 50,000 | 50,545 | 50,997 | 767 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 10/26/2018 | 1.010% | 1.41 | 80,000 | 79,695 | 80,000 | 1,122 |
| MONTGOMERY CNTY MD CTFS PARTN COPS | N.A. | 11/01/2019 | 1.200% | 1.69 | 100,000 | 98,879 | 100,049 | 1,672 |
| RICHMOND VA GO PUB IMPT BDS C | AA | 07/15/2021 | 2.599% | 1.86 | 100,000 | 102,417 | 104,648 | 1,904 |
| PORT MORROW ORE TRANSMISSION F REV | AA | 09/01/2021 | 2.737% | 1.92 | 100,000 | 102,793 | 104,828 | 1,971 |
| WACO TEX INDPT SCH DIST REF BDS | N.A. | 02/15/2020 | 4.000% | 1.78 | 110,000 | 116,375 | 117,215 | 2,076 |
| FEDERAL HOME LN MTG CORP | AA+ | 12/30/2019 | 1.500% | 1.56 | 80,000 | 79,761 | 80,000 | 1,243 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 07/19/2021 | 2.030% | 2.03 | 60,000 | 60,001 | 60,000 | 1,219 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 01/24/2022 | 2.050% | 2.09 | 40,000 | 40,000 | 40,000 | 834 |
| FEDERAL HOME LN MTG CORP MEDIUM | AA+ | 07/27/2020 | 1.625% | 1.64 | 80,000 | 80,029 | 80,000 | 1,312 |
| FEDERAL HOME LN MTG CORP | AA+ | 05/15/2020 | 1.600% | 1.61 | 150,000 | 150,003 | 150,000 | 2,408 |
| FEDERAL HOME LN MTG CORP | AA+ | 05/01/2020 | 1.375% | 1.45 | 70,000 | 69,876 | 69,563 | 1,010 |
| FEDERAL NATL MTG ASSN | AA+ | 10/07/2021 | 1.375% | 1.64 | 70,000 | 69,175 | 69,040 | 1,132 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 07/29/2020 | 1.830% | 1.52 | 140,000 | 141,190 | 141,135 | 2,150 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 06/12/2020 | 1.750% | 1.49 | 140,000 | 141,049 | 140,918 | 2,104 |
| FEDERAL NATL MTG ASSN | AA+ | 05/06/2021 | 1.250% | 1.57 | 90,000 | 89,027 | 88,826 | 1,398 |
| FEDERAL NATL MTG ASSN | AA+ | 08/17/2021 | 1.250% | 1.64 | 90,000 | 88,707 | 88,541 | 1,454 |
| CASH & EQUIVALENTS | - | - | - | 0.93 | - | 94,850 | 94,850 | 882 |
| Annual OPS and CAP Budget Reserve Total | | | | | | \$ 3,509,816 | \$ 3,529,546 | \$ 54,739 |

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| Broker/Dealer | Composite | Coupon | Yield to | | | Estimated | | |
|--------------------------------------------|-----------|------------|----------|----------|-----------|--------------|---------|--------------------------|
| Investment Name | Credit | Maturity | Rate | Maturity | Par Value | Market Value | Cost | Annual \$ Yield Earnings |
| Capital Improvement Program Reserve | | | | | | | | |
| APPLE INC SR FLT NT | AA+ | 02/07/2020 | 1.561% | 1.40 | 100,000 | 100,379 | 99,821 | 1,403 |
| BERGEN CNTY N J TAXABLE GO BDS 2008 | N.A. | 11/01/2019 | 6.000% | 1.45 | 100,000 | 105,140 | 106,498 | 1,523 |
| BERKSHIRE HATHAWAY FIN CORP GTD SR | AA | 05/15/2018 | 5.400% | 1.43 | 100,000 | 102,769 | 103,892 | 1,464 |
| CALIFORNIA ST GO BDS TAXABLE | AA- | 10/01/2019 | 6.200% | 1.42 | 100,000 | 109,292 | 110,063 | 1,552 |
| CHEVRON CORPORATION SR NT | AA- | 03/03/2019 | 4.950% | 1.57 | 100,000 | 104,948 | 105,848 | 1,646 |
| CISCO SYS INC SR GLBL NT | A+ | 01/15/2020 | 4.450% | 1.65 | 125,000 | 133,023 | 132,768 | 2,196 |
| COLGATE PALMOLIVE CO MTNS FR | AA- | 11/01/2018 | 1.500% | 1.38 | 100,000 | 100,221 | 100,242 | 1,387 |
| EXXON MOBIL CORP SR FLT NT | AA+ | 03/15/2019 | 1.396% | 1.34 | 100,000 | 100,168 | 99,935 | 1,341 |
| FEDERAL HOME LN MTG CORP PARTN CTF | N.A. | 03/01/2018 | 5.000% | 1.77 | 8,307 | 8,342 | 8,606 | 148 |
| FEDERAL HOME LN MTG CORP PARTN GOLD | N.A. | 02/01/2019 | 5.000% | 2.05 | 37,455 | 38,401 | 39,492 | 787 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 12/13/2019 | 2.375% | 1.46 | 340,000 | 347,052 | 345,416 | 5,053 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 02/18/2021 | 1.375% | 1.52 | 100,000 | 99,453 | 101,220 | 1,509 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 12/01/2017 | 2.500% | 1.16 | 500,000 | 502,190 | 503,890 | 5,800 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 01/05/2018 | 4.500% | 1.29 | 500,000 | 506,510 | 508,785 | 6,529 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 09/22/2017 | 5.000% | 0.88 | 25,000 | 25,065 | 25,517 | 220 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 06/22/2018 | 5.050% | 1.56 | 20,000 | 20,646 | 20,717 | 322 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 04/06/2020 | 5.300% | 1.59 | 450,000 | 493,502 | 497,601 | 7,847 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 09/29/2017 | 4.750% | 0.95 | 500,000 | 501,415 | 509,524 | 4,753 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 09/03/2019 | 5.320% | 1.48 | 50,000 | 53,835 | 54,588 | 798 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 02/27/2018 | 4.670% | 1.42 | 450,000 | 457,776 | 458,177 | 6,505 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 09/08/2017 | 2.250% | 0.72 | 250,000 | 250,063 | 251,623 | 1,800 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 09/11/2020 | 2.875% | 1.52 | 60,000 | 62,359 | 62,914 | 949 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 12/08/2017 | 2.625% | 1.00 | 500,000 | 501,950 | 504,220 | 5,014 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 12/08/2017 | 3.125% | 0.99 | 25,000 | 25,132 | 25,277 | 249 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 06/24/2019 | 1.520% | 1.43 | 250,000 | 250,515 | 250,000 | 3,592 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 08/15/2019 | 5.125% | 1.43 | 60,000 | 64,282 | 64,257 | 918 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 06/12/2020 | 4.625% | 1.53 | 200,000 | 217,170 | 216,520 | 3,321 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 12/14/2018 | 3.750% | 1.36 | 250,000 | 257,740 | 259,088 | 3,513 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 07/01/2019 | 4.375% | 1.41 | 25,000 | 26,339 | 26,272 | 370 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 12/13/2019 | 4.125% | 1.44 | 125,000 | 132,493 | 134,414 | 1,901 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 03/13/2020 | 4.125% | 1.46 | 700,000 | 746,403 | 750,700 | 10,897 |
| FEDERAL NATL MTG ASSN | AA+ | 01/21/2020 | 1.625% | 1.43 | 100,000 | 100,439 | 101,676 | 1,432 |
| FEDERAL NATL MTG ASSN | AA+ | 06/22/2020 | 1.500% | 1.44 | 50,000 | 50,095 | 50,630 | 722 |
| FEDERAL NATL MTG ASSN | AA+ | 11/30/2020 | 1.500% | 1.52 | 170,000 | 169,658 | 169,783 | 2,574 |
| FEDERAL NATL MTG ASSN | AA+ | 12/28/2020 | 1.875% | 1.53 | 325,000 | 328,608 | 332,137 | 5,021 |
| FEDERAL NATL MTG ASSN | AA+ | 02/26/2021 | 1.375% | 1.56 | 240,000 | 238,704 | 239,552 | 3,724 |
| FEDERAL NATL MTG ASSN | AA+ | 11/27/2018 | 1.625% | 1.28 | 150,000 | 150,641 | 151,715 | 1,928 |
| FEDERAL HOME LN MTG CORP MULTICLASS | NR | 06/25/2020 | 3.531% | 1.80 | 100,000 | 104,302 | 106,188 | 1,878 |
| FEDERAL HOME LN MTG CORP | AA+ | 06/13/2018 | 4.875% | 1.26 | 115,000 | 118,244 | 119,370 | 1,492 |
| FEDERAL HOME LN MTG CORP | AA+ | 03/27/2019 | 3.750% | 1.34 | 500,000 | 518,750 | 522,673 | 6,936 |
| FEDERAL HOME LN MTG CORP | AA+ | 05/30/2019 | 1.750% | 1.34 | 50,000 | 50,349 | 50,843 | 672 |
| FEDERAL HOME LN MTG CORP | AA+ | 10/02/2019 | 1.250% | 1.40 | 50,000 | 49,791 | 50,323 | 698 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 05/01/2018 | 3.840% | 3.13 | 250,000 | 251,340 | 266,641 | 7,867 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 04/01/2019 | 2.680% | 1.93 | 469,687 | 475,911 | 489,209 | 9,185 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 07/01/2019 | 1.940% | 1.71 | 461,648 | 462,983 | 465,976 | 7,917 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 04/01/2019 | 5.000% | 1.90 | 49,275 | 50,451 | 51,939 | 959 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 07/01/2019 | 4.821% | 2.40 | 205,099 | 216,008 | 227,532 | 5,184 |
| INTERNATIONAL BUSINESS MACHS SR GLBL | A+ | 02/06/2018 | 1.502% | 1.27 | 100,000 | 100,081 | 99,977 | 1,270 |
| IOWA FIN AUTH REV ST REVOLVING FD | AAA | 08/01/2018 | 3.280% | 1.33 | 25,000 | 25,429 | 25,428 | 338 |
| MICROSOFT CORP NT | AAA | 06/01/2019 | 4.200% | 1.37 | 100,000 | 104,688 | 104,647 | 1,437 |
| MONONA WIS TAXABLE PROM NTS 2015B | N.A. | 06/01/2020 | 3.250% | 2.51 | 100,000 | 101,879 | 101,838 | 2,553 |
| NEW YORK N Y GOBDS 2011 C TAXABLE | AA | 10/01/2018 | 3.480% | 2.47 | 100,000 | 102,081 | 102,255 | 2,522 |
| OHIO ST GO BDS 2009 C TAXABLE | AA+ | 03/01/2018 | 4.371% | 1.30 | 100,000 | 101,514 | 102,842 | 1,323 |
| PASADENA CALIF PUB FING AUTH L LEASE | AA | 03/01/2018 | 4.224% | 1.50 | 25,000 | 25,263 | 25,496 | 378 |
| TENNESSEE VALLEY AUTH PWR BD 2008 B | AA+ | 04/01/2018 | 4.500% | 1.45 | 500,000 | 509,375 | 516,625 | 7,391 |
| WELLS FARGO & CO NEW SR GLBL NT | A+ | 12/11/2017 | 5.625% | 1.52 | 25,000 | 25,273 | 25,498 | 383 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 10/26/2018 | 1.010% | 1.41 | 100,000 | 99,619 | 100,000 | 1,403 |
| MONTGOMERY CNTY MD CTF PARTN COPS | N.A. | 11/01/2019 | 1.200% | 1.69 | 100,000 | 98,879 | 100,049 | 1,672 |
| RICHMOND VA GO PUB IMPT BDS C | AA | 07/15/2021 | 2.599% | 1.86 | 100,000 | 102,417 | 104,648 | 1,904 |
| BANK NEW YORK MTN BK ENT FR | A+ | 11/27/2020 | 2.450% | 1.94 | 100,000 | 101,470 | 102,982 | 1,963 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 11/01/2020 | 3.410% | 1.99 | 117,238 | 122,393 | 125,592 | 2,436 |
| GILEAD SCIENCES INC SR NT | A- | 09/01/2020 | 2.550% | 1.89 | 100,000 | 101,784 | 103,730 | 1,924 |
| WISCONSIN ST GEN FD ANNUAL APP REV | AA- | 05/01/2021 | 1.616% | 1.93 | 100,000 | 98,916 | 100,127 | 1,906 |
| PORT MORROW ORE TRANSMISSION F REV | AA | 09/01/2021 | 2.737% | 1.92 | 225,000 | 231,284 | 235,863 | 4,434 |
| WACO TEX INDPNT SCH DIST REF BDS | N.A. | 02/15/2020 | 4.000% | 1.78 | 165,000 | 174,562 | 175,822 | 3,114 |
| FEDERAL NATL MTG ASSN | AA+ | 05/28/2021 | 1.800% | 1.87 | 260,000 | 259,873 | 260,000 | 4,865 |
| FEDERAL HOME LN MTG CORP | AA+ | 12/30/2019 | 1.500% | 1.56 | 260,000 | 259,223 | 260,000 | 4,041 |
| FEDERAL HOME LN MTG CORP | AA+ | 12/30/2020 | 1.750% | 1.83 | 340,000 | 340,007 | 340,000 | 6,205 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 07/19/2021 | 2.030% | 2.03 | 80,000 | 80,001 | 80,000 | 1,626 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 01/24/2022 | 2.050% | 2.09 | 120,000 | 120,001 | 120,000 | 2,503 |
| FEDERAL HOME LN MTG CORP MEDIUM | AA+ | 07/27/2020 | 1.625% | 1.64 | 80,000 | 80,029 | 80,000 | 1,312 |
| FEDERAL HOME LN MTG CORP | AA+ | 05/15/2020 | 1.600% | 1.61 | 220,000 | 220,004 | 220,000 | 3,531 |
| FEDERAL HOME LN MTG CORP | AA+ | 10/26/2021 | 2.000% | 2.03 | 220,000 | 220,009 | 220,000 | 4,464 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 04/27/2022 | 1.250% | 2.17 | 220,000 | 220,009 | 219,505 | 4,770 |
| FEDERAL HOME LN MTG CORP | AA+ | 05/01/2020 | 1.375% | 1.45 | 290,000 | 289,487 | 288,580 | 4,183 |
| FEDERAL NATL MTG ASSN | AA+ | 10/07/2021 | 1.375% | 1.64 | 140,000 | 138,349 | 138,079 | 2,263 |
| FEDERAL HOME LN MTG CORP | AA+ | 01/13/2022 | 2.375% | 1.70 | 310,000 | 318,286 | 317,712 | 5,417 |
| FEDERAL NATL MTG ASSN | AA+ | 01/05/2022 | 2.000% | 1.70 | 310,000 | 313,940 | 311,600 | 5,334 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 06/12/2020 | 1.750% | 1.49 | 170,000 | 171,273 | 171,115 | 2,555 |
| FEDERAL NATL MTG ASSN | AA+ | 05/08/2021 | 1.250% | 1.57 | 170,000 | 168,162 | 167,783 | 2,640 |
| FEDERAL NATL MTG ASSN | AA+ | 08/17/2021 | 1.250% | 1.64 | 170,000 | 167,557 | 167,244 | 2,746 |

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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 FARM CR BKS CONS SYSTEMWIDE | AA+ | 07/19/2022 | 1.900% | 1.74 | 165,000 | 166,092 | 165,772 | 2,890 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 08/03/2022 | 1.900% | 1.75 | 165,000 | 165,965 | 165,427 | 2,908 |
| FEDERAL NATL MTG ASSN | AA+ | 04/05/2022 | 1.875% | 1.72 | 170,000 | 171,107 | 170,651 | 2,943 |
| CASH & EQUIVALENTS | - | - | - | 0.93 | - | 432,276 | 432,276 | 4,020 |
| Capital Improvement Program Reserve Total | | | | | | \$ 16,309,399 | \$ 16,423,230 | \$ 253,068 |
| Stage 2 Capacity Reserve | | | | | | | | |
| BERKSHIRE HATHAWAY FIN CORP GTD SR | AA | 05/15/2018 | 5.400% | 1.43 | 100,000 | 102,769 | 103,885 | 1,464 |
| CEDAR PARK TEX CTFB OBLIG TAXABLE | AA | 08/15/2018 | 5.280% | 1.48 | 50,000 | 51,678 | 51,654 | 766 |
| CISCO SYS INC SR GLBL NT | A+ | 01/15/2020 | 4.450% | 1.65 | 75,000 | 79,814 | 79,661 | 1,318 |
| FEDERAL HOME LN MTG CORP PARTN GOLD | N.A. | 02/01/2019 | 5.000% | 2.05 | 37,455 | 38,401 | 39,492 | 787 |
| FEDERAL HOME LN MTG CORP PARTN GOLD | N.A. | 11/01/2020 | 4.500% | 1.83 | 37,947 | 38,836 | 39,560 | 711 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 12/13/2019 | 2.375% | 1.46 | 100,000 | 102,074 | 103,070 | 1,486 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 02/18/2021 | 1.375% | 1.52 | 100,000 | 99,453 | 101,220 | 1,509 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 06/29/2018 | 0.875% | 1.23 | 100,000 | 99,711 | 100,070 | 1,229 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 05/15/2018 | 4.500% | 1.49 | 100,000 | 102,479 | 103,088 | 1,530 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 09/29/2017 | 4.750% | 0.95 | 250,000 | 250,708 | 254,690 | 2,377 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 09/28/2018 | 4.780% | 1.36 | 55,000 | 57,115 | 57,709 | 778 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 09/08/2017 | 2.250% | 0.72 | 250,000 | 250,063 | 251,623 | 1,800 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 09/11/2020 | 2.875% | 1.52 | 60,000 | 62,359 | 62,914 | 949 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 12/08/2017 | 3.125% | 0.99 | 100,000 | 100,526 | 101,106 | 997 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 06/24/2019 | 1.520% | 1.43 | 200,000 | 200,412 | 200,000 | 2,874 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 04/09/2018 | 1.274% | 1.09 | 50,000 | 50,048 | 49,959 | 547 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 08/15/2019 | 5.125% | 1.43 | 50,000 | 53,569 | 53,548 | 765 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 03/09/2018 | 4.625% | 1.26 | 75,000 | 76,382 | 77,688 | 961 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 07/01/2019 | 4.375% | 1.41 | 100,000 | 105,357 | 105,086 | 1,480 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 03/13/2020 | 4.125% | 1.46 | 125,000 | 133,286 | 133,931 | 1,946 |
| FEDERAL NATL MTG ASSN | AA+ | 01/21/2020 | 1.625% | 1.43 | 100,000 | 100,439 | 101,676 | 1,432 |
| FEDERAL NATL MTG ASSN | AA+ | 06/22/2020 | 1.500% | 1.44 | 100,000 | 100,190 | 101,260 | 1,445 |
| FEDERAL NATL MTG ASSN | AA+ | 11/30/2020 | 1.500% | 1.52 | 100,000 | 99,799 | 101,038 | 1,514 |
| FEDERAL NATL MTG ASSN | AA+ | 12/28/2020 | 1.875% | 1.53 | 175,000 | 176,943 | 178,843 | 2,704 |
| FEDERAL NATL MTG ASSN | AA+ | 02/26/2021 | 1.375% | 1.56 | 180,000 | 179,028 | 180,149 | 2,793 |
| FEDERAL NATL MTG ASSN | AA+ | 01/14/2019 | 3.275% | 1.45 | 100,000 | 102,711 | 102,562 | 1,491 |
| FEDERAL HOME LN MTG CORP MULTICLASS | NR | 10/25/2020 | 2.788% | 1.68 | 60,970 | 61,807 | 62,495 | 1,040 |
| FEDERAL HOME LN MTG CORP | AA+ | 03/27/2019 | 3.750% | 1.34 | 250,000 | 259,375 | 261,276 | 3,468 |
| FEDERAL HOME LN MTG CORP | AA+ | 05/30/2019 | 1.750% | 1.34 | 100,000 | 100,698 | 101,685 | 1,344 |
| FEDERAL HOME LN MTG CORP | AA+ | 08/01/2019 | 1.250% | 1.37 | 100,000 | 99,763 | 100,881 | 1,366 |
| FEDERAL HOME LN MTG CORP | AA+ | 10/02/2019 | 1.250% | 1.40 | 100,000 | 99,582 | 100,645 | 1,395 |
| FEDERAL HOME LN MTG CORP | AA+ | 04/09/2018 | 0.750% | 1.17 | 100,000 | 99,752 | 99,836 | 1,166 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 05/01/2018 | 3.840% | 3.13 | 200,000 | 201,072 | 213,313 | 6,294 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 12/01/2020 | 4.000% | 1.91 | 68,855 | 71,221 | 72,147 | 1,360 |
| FEDERAL NATL MTG ASSN GTD PASSTHRU | N.A. | 07/01/2019 | 4.821% | 2.40 | 171,546 | 180,671 | 190,309 | 4,336 |
| GARNER N C GO PUB IMPT BDS TAXABLE | AA+ | 02/01/2018 | 3.050% | 1.47 | 50,000 | 50,296 | 50,397 | 740 |
| GENERAL ELEC CAP CORP MTN | A+ | 08/07/2018 | 1.582% | 1.43 | 100,000 | 100,186 | 99,695 | 1,437 |
| IOWA FIN AUTH REV ST REVOLVING FD | AAA | 08/01/2018 | 3.280% | 1.33 | 100,000 | 101,714 | 101,713 | 1,352 |
| JPMORGAN CHASE & CO SR NT | A- | 03/01/2021 | 2.550% | 2.16 | 50,000 | 50,640 | 51,073 | 1,095 |
| LANCASTER CNTY NEB SCH DIST NO SCH | AA | 01/15/2021 | 4.550% | 2.45 | 50,000 | 53,650 | 54,457 | 1,312 |
| MCDONALDS CORP MED TERM NT FR | BBB+ | 10/15/2017 | 5.800% | 1.57 | 50,000 | 50,234 | 51,165 | 790 |
| NORFOLK VA GO CAP IMPT BDS 2010 B | AA | 03/01/2019 | 4.650% | 1.96 | 100,000 | 104,001 | 105,244 | 2,043 |
| NORTH ST PAUL MAPLEWOOD MINN I GO | AA | 02/01/2018 | 5.000% | 1.33 | 100,000 | 101,427 | 101,595 | 1,345 |
| TENNESSEE VALLEY AUTH PWR BD 2008 B | AA+ | 04/01/2018 | 4.500% | 1.45 | 200,000 | 203,750 | 206,530 | 2,956 |
| U S BANCORP MTNS BK ENT FR | AA- | 11/15/2018 | 1.950% | 1.51 | 100,000 | 100,484 | 100,151 | 1,517 |
| UNIVERSITY CALIF REVS FOR PREV GEN | AA | 07/01/2019 | 1.796% | 1.71 | 50,000 | 50,120 | 49,712 | 855 |

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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 |
|----------------------------------------------------------------|---------------------|------------|----------------|----------------------|-----------|---------------|---------------|------------------------------------------|
| WELLS FARGO & CO NEW SR GLBL NT | A+ | 12/11/2017 | 5.625% | 1.52 | 100,000 | 101,090 | 101,993 | 1,534 |
| XTO ENERGY INC SR NT | AA+ | 06/15/2018 | 5.500% | 1.66 | 100,000 | 103,058 | 104,092 | 1,715 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 10/26/2018 | 1.010% | 1.41 | 200,000 | 199,238 | 200,000 | 2,805 |
| MONTGOMERY CNTY MD CTFS PARTN COPS | N.A. | 11/01/2019 | 1.200% | 1.69 | 100,000 | 98,879 | 100,049 | 1,672 |
| BANK NEW YORK MTN BK ENT FR | A+ | 11/27/2020 | 2.450% | 1.94 | 150,000 | 152,205 | 154,473 | 2,945 |
| GILEAD SCIENCES INC SR NT | A- | 09/01/2020 | 2.550% | 1.89 | 150,000 | 152,676 | 155,595 | 2,886 |
| WISCONSIN ST GEN FD ANNUAL APP REV | AA- | 05/01/2021 | 1.616% | 1.93 | 100,000 | 98,916 | 100,127 | 1,906 |
| FEDERAL HOME LN MTG CORP | AA+ | 08/25/2021 | 1.375% | 2.00 | 90,000 | 89,124 | 90,000 | 1,780 |
| METRO WASTEWR RECLAMATION DIS REV | AA+ | 04/01/2019 | 4.718% | 1.69 | 100,000 | 104,875 | 107,178 | 1,777 |
| WACO TEX INDPT SCH DIST REF BDS | N.A. | 02/15/2020 | 4.000% | 1.78 | 55,000 | 58,187 | 58,607 | 1,038 |
| FEDERAL HOME LN MTG CORP | AA+ | 03/30/2021 | 1.500% | 1.71 | 60,000 | 59,459 | 60,000 | 1,014 |
| FEDERAL HOME LN MTG CORP | AA+ | 09/30/2021 | 1.050% | 2.50 | 100,000 | 98,407 | 99,900 | 2,458 |
| FEDERAL NATL MTG ASSN | AA+ | 09/30/2019 | 1.250% | 1.50 | 60,000 | 59,678 | 59,985 | 896 |
| FEDERAL NATL MTG ASSN | AA+ | 05/26/2021 | 1.800% | 1.87 | 60,000 | 59,971 | 60,000 | 1,123 |
| FEDERAL HOME LN MTG CORP | AA+ | 12/30/2020 | 1.750% | 1.83 | 100,000 | 100,002 | 100,000 | 1,825 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 07/19/2021 | 2.030% | 2.03 | 80,000 | 80,001 | 80,000 | 1,626 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 01/24/2022 | 2.050% | 2.09 | 60,000 | 60,001 | 60,000 | 1,252 |
| FEDERAL HOME LN MTG CORP MEDIUM | AA+ | 07/27/2020 | 1.625% | 1.64 | 40,000 | 40,014 | 40,000 | 656 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 01/05/2022 | 2.240% | 1.45 | 120,000 | 120,010 | 120,000 | 1,740 |
| FEDERAL HOME LN MTG CORP | AA+ | 10/26/2021 | 2.000% | 2.03 | 150,000 | 150,006 | 150,000 | 3,044 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 04/27/2022 | 1.250% | 2.17 | 150,000 | 150,006 | 149,663 | 3,252 |
| FEDERAL HOME LN MTG CORP | AA+ | 05/01/2020 | 1.375% | 1.45 | 260,000 | 259,540 | 258,975 | 3,750 |
| FEDERAL NATL MTG ASSN | AA+ | 10/07/2021 | 1.375% | 1.64 | 80,000 | 79,057 | 78,903 | 1,293 |
| FEDERAL HOME LN MTG CORP | AA+ | 01/13/2022 | 2.375% | 1.70 | 120,000 | 123,208 | 122,985 | 2,097 |
| FEDERAL NATL MTG ASSN | AA+ | 01/05/2022 | 2.000% | 1.70 | 120,000 | 121,525 | 120,619 | 2,065 |
| FEDERAL HOME LOAN BKS CONS BDS | AA+ | 06/12/2020 | 1.750% | 1.49 | 260,000 | 261,947 | 261,706 | 3,908 |
| FEDERAL NATL MTG ASSN | AA+ | 05/06/2021 | 1.250% | 1.57 | 260,000 | 257,189 | 256,609 | 4,038 |
| FEDERAL NATL MTG ASSN | AA+ | 08/17/2021 | 1.250% | 1.64 | 260,000 | 256,264 | 255,786 | 4,200 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 07/19/2022 | 1.900% | 1.74 | 290,000 | 291,920 | 291,357 | 5,079 |
| FEDERAL FARM CR BKS CONS SYSTEMWIDE | AA+ | 08/03/2022 | 1.900% | 1.75 | 290,000 | 291,697 | 290,751 | 5,111 |
| FEDERAL NATL MTG ASSN | AA+ | 04/05/2022 | 1.875% | 1.72 | 300,000 | 301,953 | 301,149 | 5,194 |
| CASH & EQUIVALENTS | - | - | - | 0.93 | - | 461,053 | 461,053 | 4,288 |
| Stage 2 Capacity Reserve Total | | | | | | \$ 9,795,745 | \$ 9,861,351 | \$ 154,830 |
| Subtotal, Bank of the West | | | | | | \$ 29,614,961 | \$ 29,814,127 | \$ 462,637 |
| California Local Agency Investment Fund | | | | | LAIF | - | 1.084 | |
| TOTAL UNRESTRICTED INVESTMENTS | | | | | | \$ 2,195,135 | \$ 2,195,135 | 23,795 |
| | | | | | | \$ 31,810,096 | \$ 32,009,262 | \$ 486,432 |
| Bank of New York (Trustee) | | | | | | | | |
| 2008 Reserve Account - Morgan Stanley Treas Sec X9USDMORS | - | 0.000% | - | - | 11 | 11 | - | - |
| 2008 Revenue Account - Morgan Stanley Treas Sec X9USDMORS | - | 0.000% | - | - | 4 | 4 | - | - |
| 2008 Interest Account - Morgan Stanley Treas Sec X9USDMORS | - | 0.000% | - | - | 4,337 | 4,337 | - | - |
| 2009 Reserve Account - Federal National Mortgage Assn 313G3Q73 | Aaa | 7/26/2019 | 1.150% | 1.16 | 4,754,045 | 4,780,000 | 55,147 | - |
| 2009 Reserve Account - BMW BK North Amer Salt Lake 05580ACK8 | Aa | 7/24/2019 | 2.000% | 1.98 | 151,223 | 150,000 | 2,994 | - |
| 2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS | - | 0.000% | - | - | 100,465 | 100,465 | - | - |
| 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% | - | - | 1,346 | 1,346 | - | - |
| 2014 Revenue Account - Goldman Sachs Fin Sq Instl X9USDGLD4 | - | 0.000% | - | - | 425 | 425 | - | - |
| 2014 Revenue Account - Cash | - | 0.000% | - | - | 3 | 3 | - | - |
| 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 - Goldman Sachs Fin Sq Instl X9USDGLD4 | - | 0.000% | - | - | 3,256 | 3,255 | - | - |
| 2014 Project Account - Cash | - | 0.000% | - | - | 23 | 23 | - | - |
| 2014 COI Account - Goldman Sachs Fin Sq Instl X9USDGLD4 | - | 0.000% | - | - | 5,135 | 5,133 | - | - |
| 2014 COI Account - Cash | - | 0.000% | - | - | 36 | 36 | - | - |
| 2015 Project Account - LAIF | - | 0.000% | 1.084 | - | - | - | - | - |
| 2015 Project Account - Cash | - | 0.000% | - | - | 383,063 | 383,063 | - | - |
| 2015 Revenue Account - JP Morgan Prime MMKT Instl X9USDJPMP | - | 0.000% | - | - | 163 | 163 | - | - |
| 2015 Revenue Account - Cash | - | 0.000% | - | - | 1 | 1 | - | - |

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| <u>Broker/Dealer</u> Investment Name | Composite Credit | Maturity | Coupon Rate | Yield to Maturity | Par Value | Market Value | Cost | Estimated Annual \$ Yield Earnings |
|----------------------------------------------------------------|---------------------|-----------|----------------|----------------------|-----------|-----------------|--------------------------------------|------------------------------------------|
| 2009 Escrow - United States Treasury 912828UJ7 | Aaa | 1/31/2018 | 0.875% | 0.88 | | 598,371 | 599,629 | 5,266 |
| 2009 Escrow - Resolution Funding Corp Interest Strip 76116EFS4 | Aaa | 7/15/2018 | 0.000% | - | | 333,958 | 329,183 | - |
| 2009 Escrow - United States Treasury 912828VQ0 | Aaa | 7/31/2018 | 1.375% | 1.37 | | 263,268 | 265,978 | 3,607 |
| 2009 Escrow - United States Treasury 912828B33 | Aaa | 1/31/2019 | 1.500% | 1.50 | | 604,694 | 610,349 | 9,070 |
| 2009 Escrow - Tunisia Government Aid Bonds 066716AG6 | Aaa | 7/16/2019 | 1.686% | 1.68 | | 40,510,476 | 40,944,692 | 680,576 |
| 2009 Escrow - Cash | | - | 0.000% | - | | 3,154 | 3,154 | - |
| Subtotal, Bank of New York (Trustee) | | | | | | \$ 47,780,133 | \$ 48,243,926 | \$ 756,660 |
| Less Amounts held in Escrow for 2009 Bond Defeasance | | | | | | \$ (42,313,921) | \$ (42,752,985) | \$ (698,519) |
| Net Total, Bank of New York (Trustee) | | | | | | \$ 5,466,212 | \$ 5,490,941 | \$ 58,141 |
| Uninvested Operating Cash | | - | | | | 336,295 | 336,295 | - |
| TOTAL CASH & INVESTMENTS, UNRESTRICTED AND WITH TRUSTEE | | | | | | \$ 37,612,603 | \$ 37,836,498 | 544,573 |
| | | | | | | | Weighted Average Yield to Maturity % | 1.45% |

| Summary by Investment Type: | Market Value |
|----------------------------------------|---------------|
| US Treasuries | \$ 168,819 |
| Agencies | 27,676,148 |
| Commercial Paper / Corporate Bonds | 2,420,225 |
| Municipal Bonds / Notes | 3,435,677 |
| Money Market / Certificates of Deposit | 1,716,599 |
| Local Agency Investment Fund | 2,195,135 |
| TOTAL | \$ 37,612,603 |

| Summary by Purpose / Restriction Level | Market Value |
|----------------------------------------|---------------|
| Working Capital | \$ 2,531,430 |
| Operations & Capital Budget Reserve | 3,509,816 |
| Capital Improvement Program Reserve | 16,309,399 |
| Stage 2 Capacity Reserve | 9,795,745 |
| Debt Reserve | 5,082,985 |
| Debt Proceeds | 383,227 |
| TOTAL | \$ 37,612,603 |

| Summary by Liquidity: | Market Value |
|-----------------------|---------------|
| 0-1 years | \$ 10,944,415 |
| 1-2 years | 10,290,318 |
| 2-3 years | 7,062,574 |
| 3-5 years | 9,315,297 |
| TOTAL | \$ 37,612,603 |

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

**ENGINEERING REPORT: SEPTEMBER 2017
CAPITAL IMPROVEMENT PROGRAM IMPLEMENTATION**

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

In January 2016, the Commission approved a policy outlining procedures for using the Design-Build method for project delivery. In January 2017, the Commission provided direction to staff to prepare Requests for Qualifications for two RESCU projects: Gravity Pipeline and Front of Plant using a Progressive Design Build (PDB) procurement method. Statements of Qualifications were received and three PDB firms were shortlisted for each project. Requests for Proposals (RFPs) were issued for each project to the respective shortlisted firms. A recommendation for the Gravity Pipeline Progressive Design Build firm will be presented to the Commission in October 2017 and a recommendation for the Front of Plant Progressive Design Build firm will be presented to the Commission in November 2017. The recommended scope of work will be for Stage 1 services (design to 60% completion). Staff will also present task orders for Owner's Advisor Services and Quality Assurance services for each project. In November, staff also will recommend consulting task orders to round out the overall staffing needs for both design-build projects as well as the overall RESCU program.

Planned Commission Actions: Approve Gravity Pipeline PDB Firm and Stage 1 Contract and Task Orders for Owner's Advisors and Quality Assurance consultants – October 2017

Approve Front of Plant PDB Firm and Stage 1 Contract and Task Orders for Owner's Advisors and Quality Assurance consultants - November 2017

New 12kV Switchgear (9807): Design and construct new 12 kV switchgear for connection to PG&E service.

A new connection to PG&E service is needed to connect the new Front of Plant process as well as provide an opportunity for SVCW to sell energy that it produces back into the market. Beecher Engineering and Kennedy/Jenks Engineering have provided scope and budget proposals to complete the design. The intent is to have the switchgear installed before the Front of Plant project elements are to be tested and started up.

Planned Commission Actions: Approve design Task orders for Beecher Engineering and Kennedy/Jenks – October 2017

2017 CIP Update: Prepare the biannual update to the Capital Improvement Program.

The Capital Improvement Program is a rolling 10-year Plan and was last updated in 2015. Every two years, staff prepares an update to the CIP, modifying it as needed to reflect the latest information. The CIP also includes CEQA actions needed for projects incorporated into the updated program.

Planned Commission Actions: Adopt 2017 CIP Plan Update – October 2017

Effluent Pipeline Replacement Project (6012): Replace the effluent pipeline from where it exits the main structure to where it enters the San Francisco Bay.

The pipeline taking treated effluent to the bay for final discharge was found to be leaking and a project was awarded to Power Engineering to replace the pipeline in June 2015. Work has been ongoing since that time.

A method to protect the connection between the plant main structure and the HDPE pipeline needed to be designed as the project progressed, as it was not determined at the time the original project cost was developed. A change order was negotiated with the contractor to place a concrete bridge around the connection point to protect the pipe from unnecessary loads. Work is nearing completion on this critical project.

Planned Commission Actions: Accept Project – November 2017

Wastewater Treatment Plant Improvements Phase 2 (9186, 9189, 9084, 9120, 9197, 9224): Rehabilitation and/or replacement of six treatment plant mechanical processes.

Staff has submitted an application to the State Water Resources Control Board to obtain a loan for a number of wastewater treatment plant improvements. Previously, a SRF loan was obtained for Phase 1 of the WWTP improvements; the currently submitted projects comprise Phase 2. SVCW staff are pursuing alternative funding sources which may be needed if SRF funds are not appropriated. Six projects within Phase 2 would benefit by using the Design-Build process for implementation. To that end, a task order scope and budget was negotiated with an SVCW consultant to provide Owner's Advisor services. Preliminary design is underway, and it is expected that an RFQ will be completed in November 2017.

Planned Commission Actions: Approve Procurement Documents – November 2017
Authorize Issuance of RFP – November 2017

SVCW Capital Improvement Program
Actual Expenditure vs. Plan
Through July 31, 2017

| Project Phase | Project Count | Amended 2015 CIP Update | Actual Spent thru July 2017 | \$ Unspent/ Remaining | % Unspent/ Remaining |
|-------------------|---------------|-------------------------|-----------------------------|-----------------------|----------------------|
| Completed | 100 | \$ 138,476,806 | \$ 136,615,704 | \$ 1,861,102 | 1.3% |
| In Construction | 29 | 76,767,255 | 67,968,587 | 8,798,668 | 11.5% |
| Planning & Design | 35 | 461,021,145 | 30,855,124 | 430,166,021 | 93.3% |
| Other | 37 | 136,873,865 | 4,618,908 | 132,254,957 | 96.6% |
| TOTAL | 201 | * \$ 813,139,071 | \$ 240,058,324 | \$ 573,080,747 | 70.5% |

* Consistent with the January 2017 Long Range Financial Plan, project cost estimates were increased by the construction cost index as provided by Engineering News Record.

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

21-Sep-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) | Actual Spent thru July 2017 |
|---------------|-------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|----------------------------|-----------------------------|
| 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 |
| Complete | 6002 | Conveyance System Master Plan (CSMP) | Planning for replacement and/or repair of force main and all five pump stations, including screening at the treatment plant. | 1,250,000 | 2,386,483 | 2,374,494 | 0 |
| 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 |
| Complete | 7013 | Pump Stations Secondary Communications | Provide secondary communications for remote monitoring and control | - | - | 51,900 | 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 |
| Complete | 8002 | Auto-reset of Effluent Pumps | Remote reset of effluent pumps after a power outage. | 38,900 | 15,266 | 15,266 | - |
| Complete | 8003 | Disinfection Area SCADA | Tie-in disinfection area to the SCADA network in conjunction with Hypochlorite proejct (9015) | 16,100 | - | - | - |
| Complete | 8004 | Install SCADA Servers | Purchase and install and program independent servers for SCADA use only. | 170,200 | 163,002 | 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 |
| Complete | 8006 | Turbine #1A-4B Air Flow Monitor | Combined with Activated Sludge Automation (CIP 8017) | 160,900 | - | - | - |
| Complete | 8008 | Aeration Basins #1-4 Motorized Effluent Gate Controls | Combined with Activated Sludge Automation (CIP 8017) | 201,100 | - | - | - |
| Complete | 8009 | Aeration Basins #1-4 Mudvalve Operation | Combined with Activated Sludge Automation (CIP 8017) | 80,500 | - | - | - |
| Complete | 8010 | WAS Flow Controls | Combined with Activated Sludge Automation (CIP 8017) | 20,200 | - | - | - |
| Complete | 8011 | RAS Pump #1-6 Speed Adjust | Combined with Activated Sludge Automation (CIP 8017) | 360,600 | - | - | - |
| Complete | 8012 | Secondary Clarifier Inner / Outer Gates Motorized Controls | Combined with Activated Sludge Automation (CIP 8017) | 80,500 | - | - | - |
| Complete | 8013 | WAS Pump #1-4 Speed Adjust | Combined with Activated Sludge Automation (CIP 8017) | 244,400 | - | - | - |
| Complete | 8015 | CCT Weir Sluice Gate Operator | Combined with Activated Sludge Automation (CIP 8017) | 128,500 | - | - | - |
| 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 |
| Complete | 8019 | Aeration Basin Gate Actuators | Combined with Activated Sludge Automation (CIP 8017) | 278,836 | 6,569 | 6,569 | - |
| Complete | 8020 | Aeration Basin #1-4 Inlet Gate Controls | Combined with Activated Sludge Automation (CIP 8017) | 80,500 | - | - | - |
| 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 |
| 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 |
| Complete | 8027 | Drying Bed Feed Flow Measurement | Install a new magnetic flow meter for measuring the amount of sludge discharged to drying beds. | 54,100 | 6,232 | 6,232 | 0 |
| Complete | 9005 | Primary Scum Grinders | Purchase and install 3 new grinders. Work was completed in house and via maintenance budget. | 265,700 | - | - | - |
| 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 |
| Complete | 9008 | Centrifuge Motor Drive Replacement | Replace motor drive on centrifuge. | 161,500 | 71,808 | 71,808 | (0) |
| Complete | 9010 | Real-time Wind Direction Information | Monitor wind direction & speed; download to SCADA. Use for odor complaint documentation. Project complete. | 19,000 | 1,633 | 1,633 | - |
| 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 |
| 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 |
| 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 |
| 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 |
| Complete | 9018 | Recycled Water For In-Plant Use | Utilize recycled water for sprinkler system in new administration buildng as well as other in-plant uses. | 807,300 | 556,934 | 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 |

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

21-Sep-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) | Actual Spent thru July 2017 |
|---------------|-------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|----------------------------|-----------------------------|
| 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 |
| 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 |
| Complete | 9023 | Odor & Corrosion Control Master Plan | Address overall plant odor control and corrosion control needs. | 148,500 | 95,182 | 95,182 | - |
| Complete | 9028 | Laboratory Building Roof Rehabilitation | Rehabilitate laboratory building roof. | 23,400 | 80,000 | 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 |
| Complete | 9030 | Secondary Clarifier Collector Drive Rehabilitation | Project complete. Work done in conjunction with | 251,200 | 435,000 | 471,182 | 471,182 |
| Complete | 9032 | Wireless Network Access Expansion | Extend wireless network throughout plant. | 185,900 | 250,000 | - | - |
| 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 |
| Complete | 9036 | Primary Sludge Piping Rehabilitation | Combined with Bilge Pit and Pumping project (221) | 136,300 | 541,152 | 559,131 | 559,131 |
| Complete | 9038 | Moyno Progressive Cavity Pump Replacement | Replace all Moyno pumps throughout the plant; replacement parts no longer available. | 814,600 | - | - | - |
| Complete | 9040 | Digester #2 Cleaning | Clean D2; 1 digester every 5 years | 269,100 | 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 |
| Complete | 9076 | Digester Mix Pump Rehabilitation | Rebuild one pump every three years; purchase a spare pump. | 275,000 | - | - | - |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Complete | 9114 | Historian Software | Software purchase and installation to facilitate historical tracking of SCADA data. | 34,100 | 2,366 | 2,366 | - |
| 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 overage. | 182,200 | 448,890 | 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 |
| 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 |
| 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 |
| Complete | 9157 | Solids Handling Building Roof Replacement | Replace the roof on SHB; leaks occurring. | 226,200 | 70,203 | 70,203 | 70,203 |
| Complete | 9163 | Demolition of Abandoned Equipment in Solids Handling Building | Demolish/remove equipment in SHB that has not been in operation for over 25 years. | - | 1,469,383 | 1,557,091 | 0 |
| Complete | 9167 | Boiler Replacement | Replace boilers due to age and undersized for future use. Includes replacement of piping. Project is being constructed as a CCO to the Cogen Project. | - | 400,000 | 108,050 | - |
| Complete | 9178 | Levee Repair behind Warehouse | Levee leaks when the stormwater retention basin fills to a certain level; this project repairs the levee. | - | 375,000 | 10,782 | - |
| 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 |
| Complete | 9180 | Maintenance Shop Reconfiguration | Reconfigure maintenance spaces that have been displaced by other projects. | - | 1,372,800 | 228,038 | 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 |

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

21-Sep-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) | Actual Spent thru July 2017 |
|---------------|-------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|----------------------------|-----------------------------|
| Complete | 9193 | T1 and T2 Replacement | Replace Transformers T1 and T2. Do work as CCO to 9801 - 9804 (Power Reliability). Transfer project budget. | - | 1,029,600 | - | - |
| Complete | 9194 | T3 Replacement | Replace Transformer T3. Do work as CCO to 9801 - 9804 (Power Reliability). Transfer project budget. | - | 514,800 | - | - |
| Complete | 9195 | Wetside Power | Installs new PDP-2 and replaces old transformers, T1, T2, and T3. Adds new T4. Do work as CCO to 9801 - 9804 (Power Reliability). Transfer project budget. | - | 1,716,000 | 111,831 | - |
| Complete | 9198 | Hot Water Piping Improvements - Phase I | Provide pumps and piping to allow the hot water loop to serve the new Plant Control and Lab Buildings. | - | 171,600 | 31,738 | - |
| Complete | 9199 | Hot Water Piping Improvements - Phase II | Add primary and secondary pumping to connect new cogeneration engines to the Plant hot water loop. Do work as CCO to 9154, Cogen. Transfer project budget | - | 669,200 | 1,542 | - |
| 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 |
| Complete | 9207 | Maintenance Building Roof Replacement | Replaces the roof atop the maintenance building, including drainage improvements at the electrical room | - | 18,749 | 18,949 | - |
| 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 |
| Complete | 9216 | 3W System Improvements | Make improvements to Plant Water system to assure adequate flow to all processes | - | 171,600 | 314,600 | 312,088 |
| Complete | 9127 | PEC & PST 1 & 2 Protective Coatings | Do SSC #3 with CIP #9014; also replace SSC drive. | - | - | 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 |
| 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 |
| 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 |
| 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 |
| Complete | 9007 | Industrial Roll-up Doors for Warehouse | Combine with CIP #9132. Project complete | 21,700 | 19,664 | 19,664 | 19,664 |
| 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 |
| 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 |

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

21-Sep-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) | Actual Spent thru July 2017 |
|---------------|-------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|----------------------------|-----------------------------|
| 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 |
| Complete | 9153 | High Pressure Pump Safety Cutout Switch Replacement | Work completed in-house. Project Complete. | 28,700 | 11,233 | 11,233 | - |
| Complete | 9161 | Digester #3 Cleaning | Combine w/CIP #9012; Clean Digester #3 to facilitate effective solids treatment and provide access for Digester #3 Rehabilitation and Upgrade project (CIP 9012). Includes purging of Digester #1, screened transfer of contents from Digester #3 to Digester #1, and disposal of screenings and Digester #3 residual contents. | - | - | - | - |
| Complete | 9162 | Digester Mix System Improvements | Combine w/CIP #9012; Replace three existing Digester Mixing Pumps with three screw centrifugal pumps and one spare to improve pumping and digester operation and reduce maintenance. The work is included with the Digester #3 Rehabilitation and Upgrade Project (CIP 9012). | - | - | - | - |
| Complete | 9166 | Digestion System Enhancements | Combine w/CIP #8021 and transfer budget. Upgrade existing digestion system to allow enhanced operation with three primary digesters in service. Enhancements include a third heat exchanger and replacement of the aging sludge recirculation pumps for all three digesters. | - | - | - | - |
| Complete | 9182 | Property Acquisition | Per Engin 7/16, Transfer costs to Proj 264 | - | 2,540,000 | 2,540,000 | - |
| Complete | 9191 | Cathodic Protection at WWTP | This project replaces the worn out Plant rectifier for cathodic protection on the influent and effluent pipes. Delete project from CIP; work done in house. | - | 130,000 | - | - |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Complete | 9227 | Sodium Bisulfite Tank Alarms & Controls | Provide additional level indicating device, alarms for chemical loading, and controls for heat trace equipment. Currently the 4 tank system has only a single LIT; for safety and critical process control, a redundant LIT is needed. Project will also install visual and audible alarms. | - | - | - | - |
| 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 |
| 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 |
| 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 |
| Complete | 9805 | Cogeneration System Connection to Primary Switchgear | Work completed under Power Reliability Improvements (9801 to 9804). Project Complete. | - | 800,000 | 3,429 | - |

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

21-Sep-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) | Actual Spent thru July 2017 |
|------------------------------------|-------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| 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 |
| TOTALS - COMPLETED PROJECTS | | | | \$45,130,636 | \$124,064,488 | \$138,476,806 | \$136,615,704 |

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

21-Sep-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) | Actual Spent thru July 2017 |
|---------------|-------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|---------------------------------------------|-----------------------------------|
| 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 |
| 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 | 11,032,021 |
| 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 |
| Constr | 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 |
| Constr | 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 |
| Constr | 8021 | Anaerobic Digestion Process Automation | Automate digester process. Part of SPA project. | 2,589,600 | 8,882,096 | \$ 9,701,615 | 8,041,368 |
| 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 | 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 | 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 |
| 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 | 188,056 |
| 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 | 3,771,759 |
| Constr | 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 |
| 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 | 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 | 3,109,863 |
| 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 | 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 | 2,026,758 |
| Constr | 9128 | PST 3 & 4 Protective Coatings | Complete with 9080 - PST Collector System Replacement | 714,150 | 714,150 | \$ 2,869,160 | 2,281,529 |
| Constr | 9131 | Plant Service Road Resurfacing- Phase 2 | Plant site grading and paving. | 1,089,000 | 821,310 | \$ 1,066,488 | 277,371 |
| Constr | 9152 | Small Capital Equipment Replacement | Ongoing replacement of equipment for maintenance needs throughout plant | 3,714,000 | 1,954,500 | \$ 2,238,071 | 1,230,902 |
| Constr | 9164 | Dewatering and Solids Handling Improvements - Phase I | Recommendations from the Biosolids Master Plan for dewatering improvements. | - | 3,897,253 | \$ 5,565,212 | 6,381,137 |
| Constr | 9177 | Implement Security Plan Enhancements | Implement inhancements outlined in Security Document; conjoin with capital improvements as they are being implemented. | - | 1,920,000 | \$ 1,165,990 | 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 | 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 | 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 | 890,350 |
| 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 | 528,119 |
| 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 | 1,084,765 |

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

21-Sep-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) | Actual Spent thru July 2017 |
|------------------------------------------|-------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|---------------------------------------------|-----------------------------------|
| 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 | 7,433,170 |
| TOTALS - PROJECTS IN CONSTRUCTION | | | | \$ 26,520,850 | \$ 57,118,423 | \$ 76,767,255 | \$ 67,968,587 |

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

21-Sep-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) | Actual Spent thru July 2017 |
|---------------|-------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|------------------------------------|-----------------------------|
| Planning | 6004 | Flow Equalization Facility | Build wet weather and diurnal storage facilities on plant property | \$8,981,300 | \$28,600,000 | \$ 18,171,592 | 641,362 |
| Planning | 6006 | Conveyance System CEQA | Project Development, CEQA, and Planning for the Conveyance System Project Elements | - | 839,000 | \$ 5,100,580 | 4,361,026 |
| 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 | 10,553,903 |
| 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 | 208,453 |
| 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 | 864,954 |
| Planning | 6014 | Influent Connector Pipe | Install new pipeline that connects headworks process to current plant influent. | - | - | \$ 9,081,206 | 650,435 |
| 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 | 179,843 |
| 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 | 3,776,707 |
| 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 | 33,725 |
| 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 | 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 | 343,752 |
| 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 | 458,760 |
| 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 | 4,014,101 |
| 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 | 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 |
| Planning | 9105 | Document Management System | Phase 2 of the IMMS; use for CIP information management. | 1,995,500 | 1,995,500 | \$ 2,318,059 | 326,974 |
| Planning | 9107 | CCT Concrete and Steel Protective Coating Replacement | Recoat walls and Ceiling of CCT | 4,807,400 | 4,901,400 | \$ 5,719,970 | 146,496 |
| 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 | 35,287 |
| 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 | 243,328 |
| 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 | 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 | 1,074,121 |
| 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 | 221,414 |

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

21-Sep-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) | Actual Spent thru July 2017 |
|---------------------------------------------------|-------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|------------------------------------------|-----------------------------------|
| 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 | (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 | - |
| Planning | 9189 | DMF Pump and Discharge Piping Replacement | Replace motors and drives on DMF Pumps. | - | 858,000 | \$ 1,793,236 | 14,928 |
| 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 | 32,341 |
| 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 | 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 | 1,563 |
| 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 | 165,492 |
| 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 | 1,215 |
| Design | 9168 | Thickening Improvements - Phase I | Rehabilitate Thickeners 2 and 3 | - | 2,808,000 | \$ 1,448,690 | 355,860 |
| 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 | 543,443 |
| 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 | 9,172 |
| Design | 9220 | Aeration Basin Venturi Removal | Remove a bottleneck to allow peak flow of 80 mgd | - | 1,150,857 | \$ 1,243,488 | 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 | 1,142,587 |
| TOTALS - PROJECTS IN PLANNING & DESIGN | | | | \$66,580,700 | \$196,975,295 | \$461,021,145 | \$30,855,124 |

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**

21-Sep-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) | Actual Spent thru July 2017 |
|---------------------|-------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|------------------------------------|-----------------------------|
| 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 | 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 | - |
| 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 | 116,969 |
| Project On Hold | 9400 | Nutrient Removal | Placeholder for facilities required to remove nutrients (nitrogen and phosphorous) to meet future regulations. | - | - | 103,636,229 | 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 | - |
| 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 | - |
| 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 | 1,372 |
| 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 | - |
| 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 | - | 6,611 |
| 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 | - |
| 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 | - |
| 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 | - |
| 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 | - |
| 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 | 1,830 |
| 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 | - |

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

21-Sep-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) | Actual Spent thru July 2017 |
|------------------------------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|---------------------------------------------|-----------------------------------|
| 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 | - |
| 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. | - | - | - | - |
| 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 | - |
| 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 |
| 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 | 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 | 458,472 |
| 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 | 24,432 |
| 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 |
| 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 |
| 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 | 7,065 |
| 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 | 69,560 |
| 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 | - |
| 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 | 0 |
| 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) |
| Admin | 9209 | LOC Funding - Phase II | Initial Set-up and Annual fee for LOC with Wells Fargo as of 2015. | - | 120,000 | 129,731 | - |
| TOTALS - REMAINING PROJECTS | | | | \$141,752,600 | \$31,068,897 | \$136,873,865 | \$4,618,908 |

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: 09/21/2017

| Commission Meeting Date | Action Item | | Requested or Estimated Date for Completion | Status | | | Date of Completion | Notes |
|-------------------------|-------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|-------------|----------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Ongoing | In Progress | Complete | | |
| 9/14/2017 | 1 | Add Consent Item re: payment to Mobile Modular | 10/5/2017 | | | ✓ | | Payment to Mobile Modular in the amount of \$68k will be noted in a Consent Calendar item for October (this will provide auditable tracking due to the payment being over Manager's authorization amount of \$50k. |
| | 2 | Begin process to get onto City's and WBSD's Board meetings' calendars to discuss upcoming bond issuance. | 9/20/2017 | | | ✓ | | 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 | | ✓ | | | Discuss both increased authorization amount and possibility of Sub-Committee. |
| 8/10/2017 | 1 | CalPERS Subcommittee formation | 12/14/2017 | | ✓ | | | Subcommittee formed consisting of Commissioner Otte and Commissioner Grassilli. Present a time table for meeting(s) to both and resolve a date/time upon of return of Commissioner Otte. |
| | 2 | Operating Budget/Staffing | 4/1/2018 | | ✓ | | | Ensure SVCW's salaries and benefits maintain 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 | Draft a letter for Commission signature thanking Congresswoman Anna Eshoo will be available at the August 10th meeting of the Commission. |
| 5/11/2017 | 1 | Progressive Design-Build | 5/18/2017 | | | ✓ | 5/15/2017 | Send a link of the Requests for Qualifications to Commissioner Otte. |
| 4/13/2017 | 1 | Progressive Design-Build | Ongoing | ✓ | | | | Provide Selection Criteria, Scoring Process and routine updates on the Design-Build selection process for Front of the Plant and Gravity Sewer projects to the Commission . |
| | 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). |

Commissioners' Requested Action Items
Updated: 09/21/2017

| Commission Meeting Date | Action Item | | Requested or Estimated Date for Completion | Status | | | Date of Completion | Notes |
|-------------------------|-------------|-------------------------------------------------|--------------------------------------------|---------|-------------|----------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Ongoing | In Progress | Complete | | |
| | 3 | Management Personnel Performance Pay Policy | NA | | | ✓ | 6/8/2017 | 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 publish annual consolidated pay schedule to be publicly posted. |
| 3/23/2017 | 1 | Long Term Compensation Stability Program/Policy | 1/11/2018 | | ✓ | | | 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. |
| 2/9/2017 | 1 | Provide PIN and keycards to Commissioners | 3/23/2017 | | | ✓ | 2/15/2017 | Provided to Commissioners at the February meeting. |
| | 2 | Compensation Study | 3/23/2017 | | | ✓ | 3/23/2017 | Report complete and accepted by the Commission. |
| | 3 | March meeting agenda | 3/17/2017 | | | ✓ | 3/23/2017 | Kept agenda items to a minimum and/or on Consent Calendar due to budget focus. |
| 1/12/2017 | 1 | CalPERS actions on performance pay | Ongoing | ✓ | | | | Keep all persons who received a letter from CalPERS regarding the eligibility of their Performance Incentive Pay for retirement benefits, informed of the status of the proceedings and what actions the Commission is taking in SVCW's argument that the payments are eligible for CalPERS retirement benefits. This is anticipated to be a long lasting ordeal and multiple updates will be provided as information becomes available. A hearing was held with an Administrative Law Judge on July 10, 2017. Final briefings and rebuttals were due and submitted to the Judge. The Judge's ruling may be available on or after November 1, 2017, but likely later. |

Commissioners' Requested Action Items
Updated: 09/21/2017

| Commission Meeting Date | Action Item | | Requested or Estimated Date for Completion | Status | | | Date of Completion | Notes |
|-------------------------|-------------|-----------------------------------------------------------|--------------------------------------------|---------|-------------|----------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Ongoing | In Progress | Complete | | |
| | 2 | SVCW Financial Reports | 2/9/2017 | ✓ | | ✓ | 2/9/2017 | Send warrant registers for review by Commissioners via email prior to Commission meeting they will approve them at. Do not send hard copies with agenda packet. |
| | 3 | SRF Funding | 1/30/2017 | | | ✓ | 1/19/2017 | Sent a letter from the Commission to state legislatures for SRF funding prior to January 30th meeting w/SWRCB |
| | 4 | Long Term Financial Plan | 2/9/2017 | | | ✓ | 2/9/2017 | Added statements to LRFP re: debt and generational equity; and re: debt interest due to not having \$ for pay-as-you-go. |
| | 5 | CIP Funding | As needed | ✓ | ✓ | | | Present a recommendation to Commission re: timing for bond issuance. Issuance now expected in January 2018. |
| 12/8/2016 | 1 | Prepare discussion re: financing the CIP (bonds/no bonds) | 1/12/2017 | | | ✓ | 1/12/2017 | Preliminary discussion with the Long Range Financial Plan presentation in January |
| 11/10/2016 | 1 | Discuss 2017 Commission Meeting Dates | 12/8/2016 | | | ✓ | 12/9/2016 | Commissioners confirmed meeting dates. |
| | 2 | Conveyance System DEIR | >12/8/2016 | | | ✓ | 4/13/2017 | Commission certified the EIR at the April 13, 2017 |
| | 3 | Investment Report | 12/8/2016 | | | ✓ | 12/8/2016 | Ensure numbers in report tie in to front page numbers. |
| 10/13/2016 | 1 | IT System Shut-down of October 17th | 10/14/2016 | | | ✓ | 10/14/2016 | Notified public of planned IT shutdown via website. |
| | 2 | Conveyance System DEIR | 12/8/2016 | | | ✓ | 4/13/2017 | Commission certified the EIR at the April 13, 2017. |
| | 3 | SRF Funding Availability | N/A | | | ✓ | 1/19/2017 | Letter sent to State legislators and SWRCB advocating CA issuing more bonds to fund the SRF program drafted and presented to Commission. |
| | 4 | Conveyance System Commission sub-committee | NA | | | ✓ | 11/7/2016 | Subcommittee (Commissioners Lieberman and Moritz) met on Nov 7 to discuss conveyance system progress. |
| | 5 | Greendale property construction progress | 12/1/2017 | | ✓ | | | After redesign for required retention wall improvements, the contractor has begun construction again and is expected to complete work in late October. Additional costs are being tabulated on a direct time and materials basis with no mark up by contractor. |
| 9/8/2016 | 1 | Job Classification and Total Compensation Study | 1/31/2017 | | | ✓ | | Report complete and accepted by the Commission. |
| | 2 | Control Building HVAC System | 8/31/2017 | | | ✓ | | SVCW Legal Counsel is evaluating the potential of a damage from the Architect of Record for design deficiencies related to environmental protection of computer servers and related equipment. A Legal Opinion Letter will be presented to the Commission at the August 10, 2017 meeting. No further action at this time. |

Commissioners' Requested Action Items
Updated: 09/21/2017

| Commission Meeting Date | Action Item | | Requested or Estimated Date for Completion | Status | | | Date of Completion | Notes |
|-------------------------|-------------|-----------------------------------------------------------------------------------------------|--------------------------------------------|---------|-------------|----------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Ongoing | In Progress | Complete | | |
| | 3 | JPA re-write: prepare RFP and concurrently reach out to Legal Counsels of each member agency. | NA | | ✓ | | | Staff and SVCW Legal Counsel are developing the list of significant issues, now anticipated in January 2018, for presentation to JPA legal specialists to allow evaluation and development of proposals for the update of the JPA. It is expected to take two or more years to complete the update of the JPA once a firm is hired. |
| | 4 | Connection Fees | NA | | ✓ | | | Additional plant capacity evaluation is underway to ensure proper flow numbers are used in the calculations. Expect to address at the January 2018 Commission Meeting. |
| > One Year | 1 | MOU Negotiations | NA | | ✓ | | | From 06/19/2016 Meeting: When MOU negotiations occur, present status updates to the Commission - anticipated in early 2018. |

**MINUTES OF SILICON VALLEY CLEAN WATER
REGULAR MEETING – SEPTEMBER 14, 2017**

ITEM 1

CALL TO ORDER

Commissioner Chair, Mr. Seybert called the meeting to order at 8:00 a.m.

ITEM 2

ROLL CALL - Commissioners Duly Appointed by Each Agency

Mayor John Seybert, Redwood City – Chair
Council Member Warren Lieberman, PhD., Belmont– Vice Chair
Mayor Robert Grassilli, San Carlos – Secretary
Board President Edward Moritz, West Bay Sanitary District - (Alternate)

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
Kim Hackett, SVCW Engineering Director
Bruce Burnworth, SVCW Senior Engineer
Cindy Hui, SVCW Financial Analyst
Ilana Schmidt, SVCW Administrative Assistant
Derek Rampone, City of Redwood City
E.J. Shalaby, DNS Strategic Partners, LLC
Janet McGovern, Sandul Public Relations
Mark Minkowski, Kennedy/Jenks
Robert Porr, Fieldman, Rolapp & Associates
Bill Tanner, Tanner Pacific, Inc.

ITEM 3

PLEDGE OF ALLEGIANCE

Commissioner Moritz, Alternate Commissioner representing West Bay Sanitary District, led those attending the meeting in the recital of the Pledge of Allegiance.

ITEM 4

PUBLIC COMMENT

There was no Public Comment.

Commissioner Seybert welcomed a member of the public, Janet McGovern who is working with Sandul Public Relations and recognized her for the article she wrote in Climate Magazine on the history of Redwood Shores. He also noted her years of involvement with Redwood City and thanked her for her wonderful work.

ITEM 5A

SAFETY MOMENT

Mr. Child discussed basic electrical safety and tips to avoid shock while performing tasks.

ITEM 5B

MANAGER'S REPORT

SVCW Warrant Register: Mr. Child noted to the Commission that a recent Warrant Register sent to them, not included in this agenda approval action, contained a purchase that had inadvertently been made without advanced Commission approval. The current accounting system requires items to be broken down into different accounts and due to this it was missed by staff that the total exceeded the Manager's approval limit of \$50,000 and got through the system without staff realizing the total cost. Mr. Child said the coming new accounting system (Cogsdale) will assist with checks and balances and prevent things like this from happening in the future.

Mr. Seybert requested an action to approve the purchase be included on the Consent Calendar for the next Commission meeting to allow the Commission to formally approve the purpose. This will show anyone looking at the transaction in the future that the Commission approved the transaction, what happened and establish a trail of documentation.

Staged Anaerobic Fluidized Membrane Bioreactor (SAF-MBR): Mr. Child passed out a flyer to the Commissioners and invited any who would like to attend the kickoff event, on October 6th, for the new anaerobic process that is being pilot tested at SVCW in conjunction with Stanford University and the California Energy Commission.

CalPERS' Appeal: Mr. Child updated the Commission and said that Liebert Cassidy and Whitmore attorneys will file their final brief on behalf of SVCW and David Hall on September 15, 2017. They will be allowed to respond to CalPERS final brief, and they to ours, by September 30th. The Administrative Law Judge will then move forward with all the evidence and make his decision. We expect a decision prior to the end of the year.

Pump Station Cost-Sharing: Mr. Child addressed Mr. Grassilli's inquiry at last month's meeting regarding how costs are shared for pump stations. Mr. Child said back in 2011 there was an amendment to the JPA that made all capital assets common and all member Agencies pay for capital improvement costs. From an operational standpoint, however, each Agency pays for the operation and maintenance of their specific pump station.

Special Meeting October 5, 2017, and Harbor Industrial Presentation: Mr. Child reminded the Commission of the Special Meeting scheduled for October 5, 2017 at 8:00 a.m. Following the meeting, Ms. Herrera and Mr. Child will present a CIP Update to the Harbor Industrial Association for their monthly meeting at the Vans Restaurant in Belmont.

ITEM 5C3

FINANCIAL REPORTS

Mr. Anderson provided an update on SVCW's Capital Improvement Program and proposed strategies for funding the RESCU Program's Front of Plant and Gravity Pipeline projects. Mr. Anderson explained the current borrowing environment and the challenges with funding, due to loans being oversubscribed from the State Revolving Fund (SRF) and unfortunately, the Agency was not selected to apply for WIFIA.

Mr. Anderson introduced Robert Porr from Fieldman, Rolapp & Associates who is SVCW's Municipal Advisor and has worked with the Agency in the past. Mr. Porr proceeded to explain the Municipal Market Index Rates and the decrease in interest levels since last time SVCW went out for bonds. He added that the current market is very attractive with a mean record low interest rates.

Mr. Anderson said SVCW anticipates seeking an amount between two and three hundred million dollars to fund the first eighteen (\$200M) to thirty months (\$300M) of the projects. He believes it is wise for the Authority to prepare a bond issuance for January 2018. Mr. Anderson provided a timeline of events for the Commission to anticipate SVCW going to their Boards for Resolution adoptions.

Mr. Moritz asked that since the Authority is planning to receive the money in 2018, but with the largest expenditures in the FY 2019- 2020, has Mr. Anderson thought about the plan of what to do with it in the interim? He added interest accrued can work in both ways and it would be useful to have a plan to offset the interest payments.

Mr. Grassilli expressed concern about SVCW fixing these issues now and what will happen in another thirty years. He does not want the Authority to end up back where it was when he came onto the Commission with no money and a lot of costs coming up that require more borrowing. Mr. Child responded that the Commission established a Capital Reserve Policy that is already saving money for the future and assured the Commission the Authority is far from where it once was. There will be funds available in the Capital Reserve Fund for many capital expenses in the future, but very large projects or programs would still likely require borrowing. Commissioners directed Mr. Anderson to investigate hiring a Money Manager and Mr. Anderson is already working with Fieldman, Rolapp & Associates on this.

Mr. Seybert requested Mr. Anderson get a Memo out to him and the City Manager regarding the timeline for financial planning and bond issuance, especially if Resolutions need to be adopted by their Council. He added that the City Council Agendas are already being planned into February 2018. Mr. Child stated staff will get a notice to all Member Agencies' staff and

the Commissioners within a week to facilitate a kickoff of the program and allow planning of needed actions at the City Council and Board levels.

ITEM 5F

RESCU PROGRAM DESIGN-BUILD PROJECT STATUS UPDATE

Ms. Herrera provided an update on the selection of design-build teams for the Front of Plant and Gravity Pipeline projects. At the next Commission Meeting on October 5, 2017, Ms. Herrera anticipates bringing a recommendation to the Commission to award the Contract for Stage 1 for the Gravity Pipeline. Approval of this recommendation keeps the project on course with the schedule that has been presented to the Commission for the past several months and published to the contracting community in the Request for Qualifications and Request for Proposal process. Stage 1 will bring the design from the current level of ten percent to what is considered the sixty percent level. At the sixty percent level, enough will be defined in the project to allow the Stage 2 contract to be negotiated. Stage 2 is the final Progressive Design Build stage where either a Lump Sum or Guaranteed Maximum Price (GMP) will be negotiated for the Commission to approve and move into final design and construction of the project. Also in October, staff will bring a Task Order for Owner's Advisory Services with Kennedy Jenks and a Task Order for Construction Management and Quality Assurance from Tanner Pacific, Inc.

Mr. Child reminded the Commission of how the approval process works with Contracts and his authority to authorize expenditures up to a certain amount. Mr. Child stated his concern, given the fast-moving pace of the Design-Build construction process, is the time to approve changes and the limit on the amount could prove to be unworkable in avoiding project delays. Mr. Child stated that he wanted to discuss this situation and bring an action item to the Commission at a future meeting to raise the amount the Manager is authorized to approve without prior Commission approval and to investigate the feasibility of establishing a subcommittee of the Commission to approve higher amounts to avoid delay claims by the contractor.

Commissioner Seybert agreed the current dollar amount is not high enough and asked Mr. Child what level or dollar amount he thinks would be a workable amount. Mr. Child had been thinking that using the same limit the Manager has for Emergency Actions, up to Three Hundred Thousand Dollars may make sense but he wants to evaluate it further and make a recommendation at a future meeting. Having a Commission subcommittee for higher amounts, so if something large comes up he can contact the members and make a decision which would then be ratified by the Commission at the following meeting, should also be evaluated. Mr. Child said his experience with Design-Build construction has been that decisions must be made in a timely manner to avoid delays that can be very costly.

Mr. Lieberman said given the time pressure elements Mr. Child is under, how does he weigh the risk to make a large decision in a short amount of time? Mr. Lieberman added that pressure may not find the best solution and asked if it is a fair assumption to say these companies have been involved in design-build before. Mr. Child agreed and said staff has called others that have dealt with these firms before and SVCW has had several site visits for this reason. Mr.

Child emphasized the importance of having a strong working relationship and having clear communications with the Design-Build team to avoid surprises where Mr. Child or the Commission is required to make short notice decisions.

The Commissioners agreed that a subcommittee may be a good idea and could report their actions to the full Commission at the next meeting. Mr. Seybert stated that he felt the subcommittee should also have a limit on their approval level to avoid them being put in an awkward position of approving very large amounts in a very short time and recommended that a special meeting of the Commission be required if anything major deviates from what is expected. Mr. Lieberman agreed and stated that if the subcommittee is faced with very large dollar amounts in a short time, the pressure is enormously high even if the subcommittee thinks it is the best way to go.

Mr. Child said he will bring staff recommendations to the Commission at a future meeting and the Commission can make adjustments as needed and approve the levels as the Commission feels best serves the Member Agencies and our ratepayers.

ITEM 6

MATTERS OF COMMISSION MEMBER'S INTEREST

Mr. Seybert confirmed next month's Commission Meeting scheduled for one week earlier on October 5, 2017 at 8:00 a.m.

ITEM 7

CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR

Motion/Second: Mr. Lieberman / Mr. Grassilli

The Motion carried by Unanimous Roll Call Vote.

ITEM 8A

CONSIDERATION OF RESOLUTION APPROVING CONSTRUCTION CONTRACT DOCUMENTS FOR THICKENING IMPROVEMENTS PHASE 1 PROJECT INSTALLATION OF TWO ROTARY DRUM THICKENERS (CIP #9168)

Ms. Herrera displayed a schematic of SVCW's current thickening system. Originally, the Plant had four gravity thickeners with two of them failing completely about 5 years ago. Those were replaced with gravity belt thickeners. The remaining 2 gravity thickeners (GT) suffered catastrophic failure in February 2017. SVCW maintenance staff were able to take parts from the 2 and piece together one working unit. Since February the plant has been running on just 1 gravity thickener with no backup. Due to this situation, the Commission previously approved the purchase of 2 Rotary Drum Thickeners (RDT) to replace the GT and this action is for the installation of the RDTs.

Ms. Herrera went on to explain that the current treatment process with its related inefficiencies require a lot of energy, but when the new thickeners are installed we will save a lot of money on electrical costs.

Mr. Grassilli asked how long it will take to complete the installation project and Ms. Herrera said about six months.

Ms. Herrera concluded with her recommendation to award C. Overaa & Co. with the contract for installation of the rotary drum thickeners.

Motion/Second: Mr. Grassilli / Mr. Lieberman

Move adoption of RESOLUTION ACCEPTING CONTRACT DOCUMENTS AND ACCEPTING BID OF LOWEST RESPONSIBLE BIDDER FOR THICKENING UPGRADE PHASE 1 (CIP #9168); 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 (\$995,000.00) – C. OVERAA & CO.

The Resolution carried by Unanimous Roll Call Vote.

ITEM 8B

CONSIDERATION OF RESOLUTION APPROVING CONSTRUCTION CONTRACT DOCUMENTS FOR THE SOLIDS HANDLING BUILDING HVAC DUCT REPAIR PROJECT (CIP #9169)

Ms. Herrera explained that in 2014, ventilation was added to the Solids Handling Building and the galleries in the treatment plant. Prior to that, there wasn't any forced ventilation and conditions were often hazardous to staff. The main duct in the SHB began demonstrating signs of vibration that was causing damage to the system in 2015. Staff worked with the contractor on a solution, but the vibration continued and worsened over time. Ultimately, SVCW turned off the supply fan in the SHB because it was vibrating so much that the ducting in the area began to come apart. Brown and Caldwell, the original designers, prepared a redesign at their expense, since it appears the system has flaws they believe are related to the design. They prepared the "fix" at no cost to the Authority. Ms. Herrera showed a picture of the duct and how it's fallen apart and torn itself open due to the damaging vibration.

Both the engineer's estimate and an independent estimate from Tanner Pacific for the cost of the repair work were both below One Hundred Thousand Dollars. The estimates allowed SVCW to solicit quotes from 3 contractors, but does not require a public bid. The only responding quote was from Blocka Construction with the other two declining. Ms. Herrera said when they were asked why they declined, they both replied the work was too complex. Blocka was the original contractor for the installation and is very familiar and comfortable due to their

prior work with the ducting. Unfortunately, the Blocka quote came in higher than expected and is being brought to the Commission for that reason. Ms. Herrera said when she asked Blocka why the quote was higher, they explained their approach and cost in great detail. SVCW staff did not realize the work defined in the specifications would be so costly, but it is what is needed to repair the HVAC system. Ms. Herrera stated that if the Commission approves the item, SVCW can legally work with Blocka on ways to reduce the cost and have already identified some ideas, but Commission approval is required prior to beginning negotiations with the contractor. Ms. Herrera recommended awarding the Contract and under Legal purview by Ms. Fitzgerald, the costs will be negotiated.

Commissioner Lieberman stated that though the amount is nearly One Hundred Thousand Dollars more than anticipated, in the grand scheme of things, this is needed work and is, in the scheme of the work being done at SVCW, a reasonably contained small project. Mr. Lieberman followed up with asking what the implication would be if SVCW didn't perform this work?

Mr. Child responded that his recommendation is that the work must be done because when staff goes into certain areas to perform work, even with temporary ventilation, the gas buildup can result in unsafe work conditions. Mr. Child said employee safety is his number one priority.

Commissioner Moritz asked what was identified as the cause of vibrations. Ms. Herrera said it was believed to be caused by the size of the ducting being too small, as well as too many sharp bends and turns too close together.

Motion/Second: Mr. Lieberman / Mr. Grassilli

- i. Move approval to SUSPEND COMPETITIVE BIDDING REQUIREMENTS FOR SOLIDS HANDLING BUILDING HVAC DUCT REPAIR PROJECT (CIP #9169) ON THE GROUNDS THAT THE PUBLIC INTEREST WOULD NOT BE SERVED BY STRICT COMPLIANCE WITH SAID REQUIREMENTS (5/7th WEIGHTED VOTE COUNT REQUIRED)

The Motion carried by Unanimous Roll Call Vote.

- ii. Move adoption of RESOLUTION APPROVING CONSTRUCTION CONTRACT DOCUMENTS FOR THE SOLIDS HANDLING BUILDING HVAC DUCT REPAIR PROJECT (CIP #9169), ACCEPTING BID AND AUTHORIZING EXECUTION OF AGREEMENT, AND AUTHORIZING MANAGER TO APPROVE CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT VALUE FOR SAID PROJECT (\$193,500.00) – BLOCKA CONSTRUCTION

The Resolution carried by Unanimous Roll Call Vote.

ITEM 8C

CONSIDERATION OF RESOLUTION RATIFYING MANAGER'S DECLARATION OF EXISTENCE OF AN "EMERGENCY CONDITION" AND APPROVING REPAIR OF ESSENTIAL FACILITIES

Ms. Herrera displayed a photo of where the main PG&E electrical feed comes down Radio Road into the 12kv switchgear and how it travels through the tunnels, then underneath the asphalt to a pull-box located near the Solids Handling Building (SHB) and then to transformers next to the SHB. Ms. Herrera demonstrated a compromised pull box located in the roadway between the tunnels and the SHB. Though difficult to see in the photo, there are cracks in the box and entire walls are crumbling. There are four conduits completely broken and about six inches below where the conduits come out, exposing how much of the young bay mud has moved from underneath.

Commissioner Seybert asked how close these things have come to severing? Mr. Child said they don't know because digging up the conduit is risky without the proper support – both from the standpoint of keeping the plant running and for obvious safety reasons.

Mr. Child said the current plan is to construct a new mini-tunnel on top of the existing tunnel to run completely new conductors between the two structures, rerouting the entire system.

Commissioner Seybert asked what the plan is if the plant loses power. Mr. Child said SVCW has standby generators. The generators are designed for short term use, for hours, but they are not meant to run weeks on end. If required, staff will do whatever is necessary to keep the plant running, including bringing in fuel on a daily basis. Mr. Child said the biggest issue is if something should happen to the generators, there is no backup and the plant could lose all power. This is why the emergency was declared.

Commissioner Lieberman asked if this emergency was the result of a design flaw connected to SVCW's capital improvement or if it was something fortunately discovered because other work was being performed? Ms. Herrera and Mr. Child said it was fortunately discovered because other work was being done in the area.

Commissioner Lieberman asked if there was any possibility that given the location, PG&E would be responsible for sharing the costs to repair? Mr. Child said no, this is strictly inside SVCW's system.

Mr. Child said this item is likely to be brought back to the Commission for project approval because it may exceed the authorized amount of Three-Hundred Thousand Dollars.

Ms. Fitzgerald, SVCW Legal Counsel, recommended that Mr. Seybert request the staff report be made part of the minutes because of the statute requiring that the minutes reflect there is substantial evidence supporting the findings of an emergency.

Motion/Second: Mr. Moritz / Mr. Grassilli

Move adoption of RESOLUTION DECLARING EXISTENCE OF EMERGENCY CONDITION REQUIRING IMMEDIATE EXPENDITURE OF FUNDS IN FURTHERANCE OF PUBLIC HEALTH, WELFARE AND SAFETY AND APPROVING AND RATIFYING EXECUTION OF

CONTRACTS FOR REPAIR OF ESSENTIAL PUBLIC FACILITIES RELATING THERETO
(TREATMENT PLANT 12 KVA ELECTRICAL SUPPLY) (4/5th weighted vote required)

The Resolution carried by Unanimous Roll Call Vote.

ITEM 9

CLOSED SESSION

There was no Closed Session.

ITEM 10

ADJOURN

There being no further business, the meeting adjourned at 8:50 a.m.

Robert Grassilli, Secretary

By: Daniel T. Child, Manager

**DECLARATION OF EMERGENCY
AND AUTHORIZE EXPENDITURE OF FUNDS FOR FORCE MAIN REPAIR**

ISSUE

Ratification of Manager's Declaration of Existence of an Emergency Condition and Approving Repair of Essential Facilities.

BACKGROUND

SVCW treats wastewater for approximately a quarter million people in its service area. The Member Agencies of SVCW are the cities of Redwood City, Belmont, and San Carlos, and the West Bay Sanitary District. In order to operate the facilities needed to convey, treat and discharge the wastewater, SVCW contracts with Pacific Gas and Electric (PG&E) for electrical power. In addition to PG&E power, SVCW also co-generates electricity through the utilization of digester gas produced at the treatment plant.

Recently a threat to the PG&E power supply was identified and the SVCW Manager declared an Emergency Condition to facilitate the immediate correction of the situation.

DISCUSSION

SVCW receives electrical service from PG&E near the front gate of the treatment plant. From there, power cables run through the plant tunnels in conduits, across the roadway to the Solid Handling Building (SHB) where large transformers are located to reduce the voltage from 12,000 volts to the 480 volts (or less) that is required to operate the plant equipment. Due to the continued settling of SVCW facilities located in Young Bay Mud and not supported by "pile", the transition from the tunnels to the SHB has settled. As part of some recent work to repair asphalt around the facility, it was determined a pull-box located in this area needed to be raised. As the contractor started the work, it was discovered that the box had been built in a way that allowed it to settle on one end, but not the other – one side is actually resting on the top of the tunnel while the rest of the box (approximately 10' long by 6' wide and 6' deep) is unsupported and has settled more than a foot.

The settling has resulted in the severing of several large conduits and the sides of the pull-box have broken into pieces. It appears at this time that there is the potential for the broken conduit to cut the active 12,000 volt power lines. If one or more of the lines should fail, the plant would be out of power until a fix was found and implemented. The loss of power is not acceptable as we could lose our ability to treat the wastewater and pump it to the bay.

SVCW has standby power generation capabilities with diesel powered generators for short-term emergency needs that would power the facility, but would create a situation with no redundant power in the case of a mechanical or electrical failure of the standby generation system. In addition, due to the power generation agreement with PG&E, the loss of the PG&E feed would also shut down the co-generation system, a situation

which would put more load on the standby generators. While the standby system could get us through a couple of day's operation, it is truly designed for short term outages associated with storms and other power outages.

Given the challenges identified above, if a catastrophic break should occur the required costs and potential disruption of service to fix the PG&E 12 KVA power feed to the treatment plant in a crisis situation, or if it should occur during a wet weather event, would be extremely large. The risk of fines due to preventable Sanitary Sewer Overflow (SSO) or the inability to treat the wastewater is probable and could be millions of additional dollars.

In order to promptly address the potential loss of power, staff contacted Power Engineering Contractors (Power), a contractor on site and familiar with this area due to their recent work on the outfall line. Power has the expertise and ability to engineer and construct a long-term solution to this situation. An Emergency Condition was declared by the SVCW Manager on August 30, 2017 due to the considerable risk to the safety and health of the public in the event of a failure of the 12 KVA power lines authorizing Power Engineering Contractors, Inc. to proceed with investigation, engineering and repair of the settling conduit and related items. Power has begun the process to identify exactly what and how to address the situation, however, it is anticipated it could take multiple weeks to excavate and support the existing conduit to be able to investigate, identify, design and implement the proper repair. At this time, the long-term solution is not known and investigation of solutions is underway. The cost and time needed to complete the work is not yet known. SVCW engineering staff will be working with Power to implement the repair and will provide routine updates to the Commission as the solutions are developed.

FINANCIAL IMPACT

The SVCW Manager is empowered by the SVCW Joint Powers Agreement to authorize up to Three Hundred Thousand Dollars (\$300,000) for work in emergency conditions to develop solutions and make repairs as needed. The cost for repairs of the 12KVA feed line is not known at this time. If cost related to the work are estimated to exceed or approach \$300,000, the Commission will be notified and authorization for additional funds will be requested prior to the expenditure of said funds.

This work is not budgeted as part of any CIP project or in the FY 2017-2018 Operations Budget. The SVCW Operations Emergency Reserve Fund will provide temporary funding for this work. Costs will be included in an appropriate future CIP project or Capital budget in order to maintain emergency funds for the future.

RECOMMENDATION

Move adoption of RESOLUTION DECLARING EXISTENCE OF EMERGENCY CONDITION REQUIRING IMMEDIATE EXPENDITURE OF FUNDS IN FURTHERANCE OF PUBLIC HEALTH, WELFARE AND SAFETY AND APPROVING AND RATIFYING EXECUTION OF CONTRACTS FOR REPAIR OF ESSENTIAL PUBLIC FACILITIES RELATING THERETO (TREATMENT PLANT 12 KVA ELECTRICAL SUPPLY) (4/5^{ths} weighted vote required)

RESOLUTION NO. SVCW 17 - 57

RESOLUTION DECLARING EXISTENCE OF EMERGENCY CONDITION REQUIRING IMMEDIATE EXPENDITURE OF FUNDS IN FURTHERANCE OF PUBLIC HEALTH, WELFARE AND SAFETY AND APPROVING AND RATIFYING EXECUTION OF CONTRACTS FOR REPAIR OF ESSENTIAL PUBLIC FACILITIES RELATING THERETO (TREATMENT PLANT 12 KVA ELECTRICAL SUPPLY)

BE IT RESOLVED BY THE COMMISSION OF SILICON VALLEY CLEAN WATER AS FOLLOWS:

1. Findings. The Commission of Silicon Valley Clean Water (SVCW), a public entity, finds and determines as follows:

a. On or about August 30, 2017, as part of asphalt repair work around the treatment plant facility, a SVCW contractor determined a pull-box located in the area of the Solids Handling Building needed to be raised and it was discovered that the box had been built in a way that allowed it to settle on one end, but not the other – one side is actually resting on the top of the tunnel while the rest of the box (approximately 10' long by 6' wide and 6' deep) is unsupported and has settled more than a foot.

b. The settling has resulted in the severing of several large conduits and the sides of the pull-box have broken into pieces. It appears at this time that there is the potential for the broken conduit to cut the active 12,000 volt power lines. If one or more of the lines should fail, the plant would be out of power until a solution could be implemented. This threatened loss of power would put SVCW's ability to treat the wastewater and pump it to the bay into jeopardy.

c. SVCW has standby power generation capabilities with diesel powered generators for short-term emergency needs that would power the facility, but would create a situation with no redundant power in the case of a mechanical or electrical failure of the standby generation system. In addition, due to the power generation agreement with PG&E, the loss of the PG&E feed would also shut down the co-generation system which would put more load on the standby generators. While the standby system could provide temporary power, its intended design is for short-term outages associated with storms and other power outages.

d. Given the challenges identified above, there is risk of a catastrophic break. The required costs and potential disruption of service to address the PG&E 12 KVA power feed to the treatment plant in a crisis situation or during a wet weather event would be substantial. The risk of fines due to preventable Sanitary Sewer Overflow (SSO) or the inability to treat the wastewater is probable and could be millions of additional dollars.

e. In order to promptly address the potential loss of power, an Emergency Condition was declared by the SVCW Manager on August 30, 2017 due to the considerable risk to the safety and health of the public in the event of a failure of the 12 KVA power lines. SVCW staff authorized Power Engineering Contractors (Power), the contractor on site and familiar with this area due to their recent work on the outfall line, to proceed with investigation, engineering and repair of the settling conduit and related items and to construct a long-term solution to this situation.

2. Declaration. This Commission hereby determines and declares that the above-described incident constitutes an emergency condition under Section 68 of the Charter of the City of Redwood City, the procedures of which apply to this Authority pursuant to the Joint Powers Agreement establishing the Authority, and Public Contract Code Section 22050; that the public health, welfare, safety, interest or necessity required and require the immediate and continuing expenditure of public money without soliciting or advertising for bids or receiving the same; that the emergency will not permit delays resulting from competitive solicitation of bids and that the actions taken by the Authority acting by and through the Authority's Manager to complete the Emergency Work are, and such future actions will be necessary to respond to the emergency.

3. Approval, Ratification. Those certain agreements, task orders, purchase orders or other forms of agreement heretofore entered into by or for the Manager to accomplish the Emergency Work are, and each of them is, hereby approved and execution is hereby ratified.

4. Authorization. The Manager is hereby authorized to enter into such agreements (in form approved by the Attorney for the Authority) in addition to those hereinabove ratified that are necessary or appropriate to complete the Emergency Work.

5. Reports. The Manager shall report upon the status of the Emergency Work and the condition of the emergency at each regular meeting of this Commission hereafter until the emergency condition is terminated. This Commission shall determine by a four-fifth's vote at each such meeting whether the emergency condition warrants continuation of suspension of competitive bidding.

6. CEQA. The action is exempt from the California Environmental Quality Act ("CEQA") (Pub. Res. Code, §§ 21000, et seq. and Title 14 of the California Code of Regulations, §§15000 et seq.), pursuant to 14 Cal. Code of Regs. §15269 as an emergency project and Staff is hereby directed to file a Notice of Exemption with the San Mateo County Clerk's Office.

7. Operative Date. This Resolution shall be effective upon the date of its adoption and is operative retroactively to the date of the first agreement ratified hereby.

Operative Date. This Resolution shall take effect immediately upon its passage and adoption.

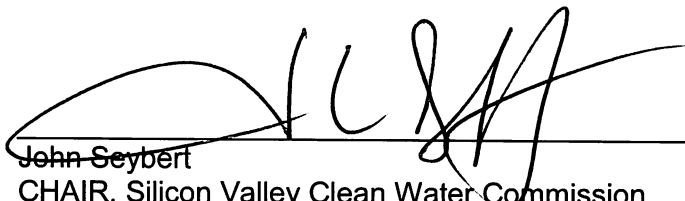
PASSED and ADOPTED this 14th day of September, 2017, by the following vote:

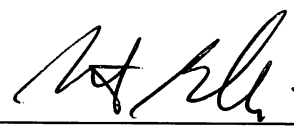
AYES: John Seybert, City of Redwood City; Edward Moritz, West Bay
Sanitary District (Alternate); Warren Lieberman, City of Belmont;
Robert Grassilli, City of San Carlos

NOES, and against the passage and adoption of the foregoing resolution: None

ABSENT: None

(continued on next page)



John Seybert
CHAIR, Silicon Valley Clean Water Commission

Attest: Robert Grassilli
SECRETARY, Silicon Valley Clean Water Commission

COPY

SVCW WARRANT REGISTER

Warrant Register for the period covering August 26, 2017 to September 8, 2017. A scanned copy was e-mailed to Commissioners on September 12, 2017.

09-08-17

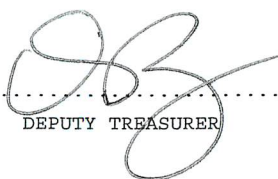
SILICON VALLEY CLEAN WATER
WARRANT REGISTER
FUND RECAP

PAGE 9934

| NAME | FUND | AMOUNT |
|--------------------------|------|--------------|
| CAPITAL IMPROVEMENT FUND | 14 | 1,522.50 |
| OPERATION | 18 | 345,614.59 |
| PLANT - CIP BOND | 20 | 262,906.48 |
| TOTAL FOR APPROVAL | | \$610,043.57 |

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 9920 THROUGH 9934 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 21394 THROUGH 21466 INCLUSIVE, TOTALING IN THE AMOUNT OF \$610,043.57, 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

9/7/17
.....
DATE



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SILICON VALLEY CLEAN WATER
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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|--------------------------------------------------------|----------|----------|------|
| AIRGAS USA, LLC | 21394 | | 568.41 | | |
| SMALL TOOLS | | 9066453901 QTY 1 HELMET, WELDING, AUTO DARKENING RADNO | | 266.44 | 18 |
| SUPPLIES | | 9947001864 7/17 CYLINDER RENTAL GASES | | 43.40 | 18 |
| | | 9947001864 7/17 CYLINDER RENTAL GASES | | 251.10 | 18 |
| | | 9947001864 7/17 CYLINDER RENTAL GASES | | 7.47 | 18 |
| ALPHA ANALYTICAL LABORATORIES | 21395 | | 2,825.00 | | |
| CONTRACT SERV. (NON-MAINT.) | | 7082956RPSVCW RWC LAB ANALYSIS | | 85.00 | 18 |
| | | 7082993RPSVCW PLANT PERMIT LAB ANALYSIS | | 210.00 | 18 |
| | | 7083003RPSVCW RWC LAB ANALYSIS | | 155.00 | 18 |
| | | 7083162RPSVCW PLANT PERMIT LAB ANALYSIS | | 70.00 | 18 |
| | | 7083362RPSVCW SAN CARLOS LAB ANALYSIS | | 85.00 | 18 |
| | | 7083363RPSVCW WBSD LAB ANALYSIS | | 85.00 | 18 |
| | | 7083364RPSVCW WBSD LAB ANALYSIS | | 85.00 | 18 |
| | | 7083587RPSVCW PLANT PERMIT LAB ANALYSIS | | 1,065.00 | 18 |
| | | 7083600RPSVCW WBSD LAB ANALYSIS | | 155.00 | 18 |
| | | 7083614RPSVCW WBSD LAB ANALYSIS | | 155.00 | 18 |
| | | 7083615RPSVCW WBSD LAB ANALYSIS | | 155.00 | 18 |
| | | 7083616RPSVCW WBSD LAB ANALYSIS | | 155.00 | 18 |
| | | 7083655RPSVCW PLANT PERMIT LAB ANALYSIS | | 210.00 | 18 |
| | | 7083656RPSVCW SAN CARLOS LAB ANALYSIS | | 155.00 | 18 |
| ANALYSTS, INC. | 21396 | | 167.75 | | |
| MACH & EQUIP MAINT SERVICES | | M1761738 LAB ANALYSIS | | 167.75 | 18 |
| ATMOSPHERIC ANALYSIS & CONSULT | 21397 | | 1,855.00 | | |
| CONTRACT SERV. (NON-MAINT.) | | A17247 ANALYSIS & REPORTING-SILOXANES & SULFUR COMPOUN | | 1,855.00 | 18 |
| BARKERBLUE | 21398 | | 816.19 | | |
| CONST.-ADMIN. & LEGAL | | 593350 ELEC BID PACKAGE COMPILATION-SITE STABLZTN GRAD | | 35.00 | 20 |
| | | 594494 SPEC'S/MASTER TO FILE (DFS)-CONCRETE STEEL PROT | | 282.91 | 20 |
| | | 597391 BID DOCUMENTS - THICKENING IMPROVEMENTS PHASE 1 | | 498.28 | 20 |

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SILICON VALLEY CLEAN WATER
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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|--------------------------------------------------------|-----------|-----------|------|
| BROWN & CALDWELL | 21399 | | 8,107.09 | | |
| CONSTRUCTION-DESIGN | | 11295165 6/3/16-5/25/17 T.O.2015-01 STAGE 1 INFLUENT S | | 8,107.09 | 20 |
| BUCKLES SMITH ELECTRIC COMPANY | 21400 | | 12,618.93 | | |
| MISCELLANEOUS | | 304864900 VARIOUS ELECTRICAL PARTS | | 6,335.22 | 18 |
| | | 304864900 VARIOUS ELECTRICAL PARTS | | 834.53 | 18 |
| | | 304864900 VARIOUS ELECTRICAL PARTS | | 51.17 | 18 |
| CONSTRUCTION-CONTRACTOR | | 304874201 VARIOUS ELECTRICAL PARTS | | 369.97 | 20 |
| | | 304874201 VARIOUS ELECTRICAL PARTS | | 429.87 | 20 |
| | | 304874201 VARIOUS ELECTRICAL PARTS | | 214.93 | 20 |
| | | 304874202 VARIOUS ELECTRICAL PARTS | | 1,035.03 | 20 |
| | | 304874203 VARIOUS ELECTRICAL PARTS | | 322.40 | 20 |
| | | 304874204 VARIOUS ELECTRICAL PARTS | | 977.77 | 20 |
| MACHINERY AND EQUIP MAINT MATE | | 305113000 VARIOUS ELECTRICAL PARTS | | 993.63 | 18 |
| | | 305113000 VARIOUS ELECTRICAL PARTS | | 1,054.41 | 18 |
| BURNWORTH, BRUCE | 21401 | | 1,125.64 | | |
| CONF. & TRAV. | | 9082017 REIM-8/13-8/16/17 TRAVEL EXPENSES-BREAKTHROUGH | | 1,125.64 | 20 |
| C.W.E.A. | 21402 | | 180.00 | | |
| MEMB. & MEET. | | 8042017ID41873I CWEA ASSN MEMBERSHIP-BENJAMIN DALINOC | | 180.00 | 18 |
| CA ST-FRANCHISE TAX BOARD | 21403 | | 10,793.07 | | |
| MISCELLANEOUS | | 9082017 6/17-8/17 FORM 592V NONRESIDENT WITHHOLDING PE | | 10,793.07 | 20 |
| CALIFORNIA DETAILERS, INC. | 21404 | | 275.00 | | |
| MACH & EQUIP MAINT SERVICES | | 44880 8/19/17 FLEET VEHICLE ON-SITE WASH | | 275.00 | 18 |
| CALIFORNIA WATER SERVICE CO | 21405 | | 315.27 | | |
| UTILITIES | | 8152017 7/15-8/14/17 SCPS WATER SERVICE | | 315.27 | 18 |

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SILICON VALLEY CLEAN WATER
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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------|-------------------|--------------------------------------------------------|----------|--------|------|
| CHIEN, HENRY | 21406 | | 167.42 | | |
| SUPPLIES | | 9082017 REIM- RELAY SWITCH FOR LAB MUFFLE FURNACE | | 167.42 | 18 |
| CINTAS CORPORATION NO. 3 | 21407 | | 1,703.82 | | |
| SUPPLIES | | 464787912 8/22/17 LAUNDRY SERVICE | | 850.41 | 18 |
| | | 464790762 8/29/17 LAUNDRY SERVICE | | 853.41 | 18 |
| COTTIER, DON R. | 21408 | | 472.38 | | |
| CONF. & TRAV. | | 9082017 REIM-8/6-8/8/17 TRAVEL EXPENSES-ELOGGER USER C | | 472.38 | 18 |
| CPI INTERNATIONAL INC | 21409 | | 54.36 | | |
| SUPPLIES | | 20034108 LAB SUPPLIES | | 54.36 | 18 |

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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|------------------------------------------------------|-------------------|--------------------------------------------------------|----------|----------|------|
| DAVID J POWERS AND ASSOCIATES, CONTRUCTION-DESIGN | 21410 | | 2,296.00 | | |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 65.84 | 20 |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 658.35 | 20 |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 143.64 | 20 |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 47.88 | 20 |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 65.84 | 20 |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 23.92 | 20 |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 23.94 | 20 |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 71.82 | 20 |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 83.80 | 20 |
| | | 20150219 6/1-6/30/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 11.97 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 76.94 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 10.99 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 60.45 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 604.45 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 131.88 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 43.96 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 60.45 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 21.96 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 21.98 | 20 |
| | | 20150220 7/1-7/31/17 T.O.2015-02 CONVEYANCE SYSTEM CEQ | | 65.94 | 20 |
| ENVIRONMENTAL EXPRESS, INC SUPPLIES | 21411 | | 1,043.66 | | |
| | | 1000476206 QTY 5 PROWEIGH FILTERS FOR VOLATILES 110MM | | 1,043.66 | 18 |
| FASTENAL COMPANY SUPPLIES | 21412 | | 1,998.75 | | |
| | | CASAA54396 VENDOR MANAGED RESTOCK | | 1,998.75 | 18 |
| FISHER SCIENTIFIC COMPANY SUPPLIES | 21413 | | 69.55 | | |
| | | 9052972 LAB SUPPLIES | | 69.55 | 18 |

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SILICON VALLEY CLEAN WATER
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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|--------------------------------------------------------|-----------|-----------|------|
| FREYER & LAURETA, INC | 21414 | | 920.00 | | |
| CONSTRUCTION-DESIGN | | 17472 5/1-7/31/17 T.O.2014-04 FORCE MAIN ALIGNMENT STU | | 460.00 | 20 |
| | | 17472 5/1-7/31/17 T.O.2014-04 FORCE MAIN ALIGNMENT STU | | 460.00 | 20 |
| FUEL OIL SYSTEMS | 21415 | | 22,690.41 | | |
| CONSTRUCTION-CONTRACTOR | | 9AND10POM10621 11/30/16-6/30/17 PRG PMT# 9/10 DIESEL F | | 9,736.00 | 20 |
| | | RETRELPOM10621 7/1-7/31/17 RETENTION PMT,PRG PMT# 11 D | | 12,954.41 | 20 |
| GRAINGER | 21416 | | 457.37 | | |
| MACHINERY AND EQUIP MAINT MATE | | 9528892228 RESTOCK ITEMS | | 158.56 | 18 |
| SUPPLIES | | 9531154327 RESTOCK ITEMS | | 15.52 | 18 |
| MACHINERY AND EQUIP MAINT MATE | | 9538567539 RESTOCK ITEMS | | 283.29 | 18 |
| GROENIGER & COMPANY INC | 21417 | | 10,962.00 | | |
| MISCELLANEOUS | | 12567161 QTY 2 TRAVELING NUT ACTUATOR, QTY 2 HP SEAL K | | 10,527.00 | 18 |
| | | 12567161 QTY 2 TRAVELING NUT ACTUATOR, QTY 2 HP SEAL K | | 435.00 | 18 |
| HARRINGTON INDUST PLASTICS | 21418 | | 1,539.45 | | |
| MISCELLANEOUS | | 3L2386 PLUMBING SUPPLIES | | 55.53 | 18 |
| | | 3L2386 PLUMBING SUPPLIES | | 35.89 | 18 |
| | | 3L2386 PLUMBING SUPPLIES | | 184.37 | 18 |
| | | 3L2386 PLUMBING SUPPLIES | | 21.27 | 18 |
| | | 3L2691 PLUMBING SUPPLIES | | 1,242.39 | 18 |
| HERC RENTALS INC. | 21419 | | 1,155.27 | | |
| MISCELLANEOUS | | 29417313001 QTY 3 AIR FILTER ELEMENT | | 178.38 | 18 |
| CONSTRUCTION-CONTRACTOR | | 29469420001 8/8-8/10/17 RENTAL EQUIPMENT-PUMP SUBMERSI | | 976.89 | 20 |

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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|---------------------------------------------------------|-----------|-----------|------|
| HILLYARD INC | 21420 | | 1,151.90 | | |
| MISCELLANEOUS | | 602579090 JANITOR SUPPLIES | | 67.95 | 18 |
| | | 602579090 JANITOR SUPPLIES | | 225.71 | 18 |
| | | 602579090 JANITOR SUPPLIES | | 158.23 | 18 |
| | | 602579090 JANITOR SUPPLIES | | 199.97 | 18 |
| | | 602579090 JANITOR SUPPLIES | | 48.29 | 18 |
| | | 602579090 JANITOR SUPPLIES | | 203.36 | 18 |
| | | 602579090 JANITOR SUPPLIES | | 103.53 | 18 |
| | | 602579090 JANITOR SUPPLIES | | 77.54 | 18 |
| | | 602579090 JANITOR SUPPLIES | | 43.20 | 18 |
| SUPPLIES | | 602579090 JANITOR SUPPLIES | | 24.12 | 18 |
| JENTECH SERVICES | 21421 | | 4,810.80 | | |
| MACH & EQUIP MAINT SERVICES | | 2237 8/18-8/31/17 INSTRUMENT CALIBRATION | | 1,140.00 | 18 |
| | | 2237 8/18-8/31/17 INSTRUMENT CALIBRATION | | 1,045.00 | 18 |
| | | 2237 8/18-8/31/17 INSTRUMENT CALIBRATION | | 570.00 | 18 |
| | | 2237 8/18-8/31/17 INSTRUMENT CALIBRATION | | 570.00 | 18 |
| | | 2237 8/18-8/31/17 INSTRUMENT CALIBRATION | | 1,485.80 | 18 |
| KELLER CANYON LANDFILL CO. | 21422 | | 924.94 | | |
| CONTRACT SERV. (NON-MAINT.) | | 421200026117 7/31/17 SEWER GRIT SCRIN DRYING BED HAULIN | | 924.94 | 18 |
| KELLER INDUSTRIES INC | 21423 | | 135.94 | | |
| MACHINERY AND EQUIP MAINT MATE | | 15820 QTY 1 MACHINED 4" THREADED PIPE & FLANGE PIN | | 135.94 | 18 |
| KENNEDY/JENKS CONSULTANTS, INC | 21424 | | 31,048.70 | | |
| CONTRUCTION-DESIGN | | 114782 THRU 7/28/17 T.O.2015-02 63" FORCE MAIN RELIABI | | 319.50 | 20 |
| | | 114783 THRU 7/28/17 T.O.2015-04 TUNNEL SUPPORT SVCS FO | | 563.50 | 20 |
| | | 114786 THRU 7/28/17 T.O.2016-11 PRGSV DESGN BLD PROC S | | 16,765.00 | 20 |
| | | 114787 THRU 8/18/17 T.O.2017-01 PRIV PROP ACQUISITION | | 11,008.20 | 20 |
| | | 114788 THRU 7/28/17 T.O.2016-07 SRF PROJ PLANNING RPT | | 2,392.50 | 20 |

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SILICON VALLEY CLEAN WATER
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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|--------------------------------------------------------|-----------|-----------|------|
| LEIGHTON STONE CORPORATION | 21425 | | 1,873.56 | | |
| MISCELLANEOUS | | 1160514 QTY 1 EACH-DURAGUAGE, ASHCROFT SWITCH, SS MANI | | 144.56 | 18 |
| | | 1160514 QTY 1 EACH-DURAGUAGE, ASHCROFT SWITCH, SS MANI | | 593.60 | 18 |
| | | 1160514 QTY 1 EACH-DURAGUAGE, ASHCROFT SWITCH, SS MANI | | 190.31 | 18 |
| | | 1160514 QTY 1 EACH-DURAGUAGE, ASHCROFT SWITCH, SS MANI | | 930.21 | 18 |
| | | 1160514 QTY 1 EACH-DURAGUAGE, ASHCROFT SWITCH, SS MANI | | 14.88 | 18 |
| LENSCRAFTERS | 21426 | | 230.00 | | |
| SUPPLIES | | 1805258299 SAFETY GLASSES - GUZMAN, FRANCISCO | | 230.00 | 18 |
| LIEBERT CASSIDY WHITMORE | 21427 | | 10,892.50 | | |
| PROFESSIONAL SERVICES | | 1445358 THRU 7/31/17 D.A. HALL MGMT PAY PERS APPEAL | | 10,472.50 | 18 |
| | | 1445359 THRU 7/31/17 APPEAL OF CALPERS DETERMINATION R | | 420.00 | 18 |
| MARINA MECHANICAL | 21428 | | 4,365.55 | | |
| MACH & EQUIP MAINT SERVICES | | 8710 7/2017 MAINTENANCE AGREEMENT ID#1218-INSPECTION O | | 3,536.75 | 18 |
| | | 87942 7/24/17 MAINTENANCE LABOR & PARTS | | 120.09 | 18 |
| | | 88244 7/27/17 MAINTENANCE LABOR & PARTS | | 708.71 | 18 |
| MOBILE MODULAR MANAGEMENT CORP | 21429 | | 68,927.00 | | |
| CONSTRUCTION-CONSTRUCTION MGMT | | 9052017 9/17 MOBILE OFFICE RENTAL INITIAL PMT FOR 1/1/ | | 44,113.28 | 20 |
| | | 9052017 9/17 MOBILE OFFICE RENTAL INITIAL PMT FOR 1/1/ | | 10,339.05 | 20 |
| | | 9052017 9/17 MOBILE OFFICE RENTAL INITIAL PMT FOR 1/1/ | | 2,067.81 | 20 |
| | | 9052017 9/17 MOBILE OFFICE RENTAL INITIAL PMT FOR 1/1/ | | 8,960.51 | 20 |
| | | 9052017 9/17 MOBILE OFFICE RENTAL INITIAL PMT FOR 1/1/ | | 3,446.35 | 20 |
| MOTION INDUSTRIES INC. | 21430 | | 178.46 | | |
| MISCELLANEOUS | | CA24015820 VARIOUS SIZES HOSE ENDS/STEEL CLAMPS | | 178.46 | 18 |
| NAVIA BENEFIT SOLUTIONS | 21431 | | 185.00 | | |
| ADMINISTRATIVE EXPENSES | | 10098978 8/2017 PARTICIPANT FEE | | 185.00 | 18 |

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SILICON VALLEY CLEAN WATER
WARRANT REGISTER
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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|-----------------------------------------------------|------------|------------|------|
| NEWARK ELEMENT14 | 21432 | | 885.23 | | |
| MACHINERY AND EQUIP MAINT MATE | | 29325366 QTY 2 FIELD CONFIGURABLE ISOLATOR DC INPUT | | 885.23 | 18 |
| OFFICE DEPOT | 21433 | | 367.77 | | |
| OFFICE SUPPLIES | | 953681115001 OFFICE SUPPLIES | | 230.53 | 18 |
| SUPPLIES | | 956276650001 OFFICE SUPPLIES | | 25.54 | 18 |
| OFFICE SUPPLIES | | 956276650001 OFFICE SUPPLIES | | 111.70 | 18 |
| OGASAWARA LANDSCAPE MAINTENANC | 21434 | | 6,750.00 | | |
| CONTRACT SERV. (NON-MAINT.) | | 24312 8/17 LANDSCAPE SERVICES | | 2,050.00 | 18 |
| | | 24327 8/17 MISC LANDSCAPING | | 4,700.00 | 18 |
| OTIS ELEVATOR COMPANY | 21435 | | 873.53 | | |
| MACH & EQUIP MAINT SERVICES | | SJ20418001 6/25/17 TROUBLESHOOTING STUCK ELEV#1 | | 873.53 | 18 |
| PACIFIC GAS AND ELECTRIC COMPA | 21436 | | 137,229.18 | | |
| UTILITIES | | 76668003 7/17 DEP LOAD ELEC | | 11,567.04 | 18 |
| | | 821201719225 7/14-8/14/17 SCPS ELECTRIC | | 6,236.80 | 18 |
| | | 821201788673 7/15-8/15/17 BLPS ELECTRIC | | 2,744.73 | 18 |
| | | 821201790892 7/15-8/15/17 1406 PLANT ELECTRIC & GAS | | 539.83 | 18 |
| | | 830201726195 7/26-8/23/17 MPPS ELECTRIC | | 6,196.67 | 18 |
| | | 830201783066 7/27-8/27/17 PLANT ELECTRIC | | 100,333.45 | 18 |
| | | 831201703894 7/26-8/24/17 RCPS LYGSO | | 21.92 | 18 |
| | | 831201743834 7/26-8/24/17 RCPS ELECTRIC | | 9,588.74 | 18 |
| POLYDYNE, INC. | 21437 | | 43,446.71 | | |
| CHEMICAL SUPPLIES | | 1166429 8/24/17 41400 CLARIFLOC C-6265 | | 43,446.71 | 18 |
| PRE EMPLOYMENT, INC. | 21438 | | 79.50 | | |
| PROFESSIONAL SERVICES | | 32316 BACKGROUND CHECK-SAMEET SHANKAR | | 79.50 | 18 |

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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|--------------------------------------------------------|----------|----------|------|
| PUMPING SOLUTIONS INC | 21439 | | 744.47 | | |
| MISCELLANEOUS | | 3015757 QTY 3 WILDEN AIR PUMP REPLACEMENT PARTS KITS | | 744.47 | 18 |
| R & B COMPANY | 21440 | | 623.92 | | |
| MISCELLANEOUS | | S1673673001 PLUMBING PARTS | | 60.99 | 18 |
| MACHINERY AND EQUIP MAINT MATE | | S1673673001 PLUMBING PARTS | | 562.93 | 18 |
| REDWOOD CITY, CITY OF - FINANC | 21441 | | 76.36 | | |
| SUPPLIES | | BR45484 6/16-7/15/17 FUEL CHARGES | | 76.36 | 18 |
| REDWOOD CITY, CITY OF - WATER | 21442 | | 1,057.09 | | |
| UTILITIES | | 816201732690 6/22-8/22/17 GREENDALE WATER SERVICE | | 1,057.09 | 18 |
| RES/SFBS CWEA CERT. PREPARATIO | 21443 | | 40.00 | | |
| TRAINING | | 9082017 9/22/17 CERTIFCATION PREPARATION SESSION - BEN | | 40.00 | 18 |
| ROYAL WHOLESALE ELECTRIC | 21444 | | 1,931.52 | | |
| MACHINERY AND EQUIP MAINT MATE | | 7003646791 VARIOUS CONDUIT PARTS | | 152.98 | 18 |
| | | 7003646791 VARIOUS CONDUIT PARTS | | 76.48 | 18 |
| | | 7003646791 VARIOUS CONDUIT PARTS | | 76.48 | 18 |
| CAPITAL | | 7003646796 VARIOUS CONDUIT PARTS | | 1,522.50 | 14 |
| MACHINERY AND EQUIP MAINT MATE | | 7003647014 VARIOUS CONDUIT PARTS | | 48.56 | 18 |
| | | 7003647014 VARIOUS CONDUIT PARTS | | 54.52 | 18 |
| SAN MATEO COUNTY MOSQUITO AND | 21445 | | 414.31 | | |
| CONTRACT SERV. (NON-MAINT.) | | SM1700083 6/30/17-7/17 MOSQUITO AND VECTOR CONTROL | | 197.82 | 18 |
| | | SM1700107 7/31/17 MOSQUITO AND VECTOR CONTROL | | 216.49 | 18 |
| SIERRA RESEARCH INC | 21446 | | 1,337.50 | | |
| CONST.-ADMIN. & LEGAL | | 1163903 6/29-7/30/17 INITIAL DISCUSSION WITH BAAQMD | | 1,337.50 | 20 |

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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|-----------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------|----------------|
| SILICON VALLEY CLEAN WATER (EE SUPPLIES | 21447 | 9082017 10/17 COMPENSATION-EMPLOYEE ANNIVERSARY | 50.00 | 50.00 | 18 |
| SUBURBAN PROPANE LP UTILITIES | 21448 | 16277 8/14/17 PROPANE EQUIPMENT RENTAL 167554 7/2017 TO 7/2018 ANNUAL EQUIPMENT RENTAL | 474.58 | 330.58 144.00 | 18 18 |
| SWRCB-ELAP FEES ADMINISTRATIVE EXPENSES | 21449 | 9062017 ELAP CERTIFICATION ANNUAL RENEWAL FEE | 6,145.00 | 6,145.00 | 18 |
| TANNER PACIFIC, INC. CONTRUCTION-DESIGN | 21450 | 217068 8/13-8/26/17 T.O.2017-07 CONSTRUCTION MGMT VARI | 86,720.87 | 86,720.87 | 20 |
| THATCHER COMPANY OF CALIFORNIA CHEMICAL SUPPLIES | 21451 | 245467 8/10/17 44240 LB TRIOXYN 245590 8/21/17 43660 LB TRIOXYN 245638 8/10/17 47020 LB FERRIC CHLORIDE 38-42% | 19,915.60 | 7,739.09 7,644.32 4,532.19 | 18 18 18 |
| THE FERGUSON GROUP LLC CONTRUCTION-DESIGN | 21452 | 717577 7/17 PROF CONSULTING SVCS - CIP FIN ASSISTANCE 717577B REIM-7/17 TELEPHONE EXPENSES | 4,833.06 | 4,806.50 26.56 | 20 20 |
| THOMAS FISH CO. SUPPLIES | 21453 | 21952 QTY 110 RAINBOW TROUT FISHES | 126.00 | 126.00 | 18 |

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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|--------------------------------------------------------|----------|----------|------|
| U.S. BANK CORPORATE PAYMENT SY | 21454 | | 4,783.82 | | |
| SUPPLIES | | 822201DC2 8/11/17 FUEL EXPENSE - CONOCO GOLDEN GATE | | 67.50 | 18 |
| | | 8222017BB1 7/29/17 REFERENCE BOOKS FOR IT - BARNES & N | | 67.40 | 18 |
| PROFESSIONAL SERVICES | | 8222017BB2 7/30/17 WEBSITE HOSTING ANNUAL FEE - APPS4R | | 647.00 | 18 |
| SUPPLIES | | 8222017BB3 8/1/17 CROSSOVER CABLE FOR NETWORKING - AMA | | 20.00 | 18 |
| | | 8222017BB4 8/14/17 MS 0365 SERVER LICENSE - MSFT | | 56.00 | 18 |
| | | 8222017BB5 8/14/17 MS 0365 LICENSE - MSFT | | 180.00 | 18 |
| | | 8222017BB6 8/18/17 DIMM CHIPS FOR LAPTOPS - KINGSTON.C | | 67.16 | 18 |
| | | 8222017DC1 8/10/17 FUEL EXPENSE - AUTO PRIDE | | 23.99 | 18 |
| | | 8222017DC3 8/11/17 FUEL EXPENSE - PILOT | | 52.50 | 18 |
| | | 8222017DC4 8/13/17 FUEL EXPENSE - MAVERIK | | 38.00 | 18 |
| | | 8222017DC5 8/13/17 FUEL EXPENSE - MAVERIK | | 57.50 | 18 |
| | | 8222017DC6 8/13/17 FUEL EXPENSE - MAVERIK | | 40.00 | 18 |
| | | 8222017DC7 8/14/17 FUEL EXPENSE - PILOT | | 68.00 | 18 |
| MEMB. & MEET. | | 8222017DC8 8/17/17 BUSINESS LUNCH-SW NEGOTIATIONS W/ A | | 187.40 | 18 |
| MACH & EQUIP MAINT SERVICES | | 8222017DC9 8/20/17 SVCW VEHICLE MTNC - AUTO PRIDE CAR | | 150.00 | 18 |
| MACHINERY AND EQUIP MAINT MATE | | 8222017DM2 7/31/17 FREIGHT CHARGE ONLY-EAST BAY MOTORS | | 52.30 | 18 |
| SUPPLIES | | 8222017DM7 8/17/17 QTY 9 VARIOUS COUPLINGS-TOOLAND INC | | 105.39 | 18 |
| | | 8222017DM9 8/18/17 QTY 2 AUTO COUPLER KITS-THE HOME DE | | 22.38 | 18 |
| CONF. & TRAV. | | 8222017EM1 8/1/17 REGISTRATION FEE- TRISTATE CONFERENC | | 119.00 | 18 |
| | | 8222017EM2 8/1/17 LODGING EXPENSE-SOUTH POINT H&C,TRIS | | 101.70 | 18 |
| TRAINING | | 8222017EM3 8/16/17 REGISTRATION FEE-FIBER OPTIC TRAINI | | 1,595.00 | 18 |
| MACH & EQUIP MAINT SERVICES | | 8222017EM4 8/18/17 REPAIR OF BRADY LABELMAKER-BRADY WO | | 324.44 | 18 |
| SUPPLIES | | 8222017IS1 8/1/17 REFRESHMENTS FOR MONTHLY SVCW MEETIN | | 62.04 | 18 |
| | | 8222017IS2 8/4/17 SVCW BUSINESS CARDS FOR MGMT TITLE C | | 107.86 | 18 |
| | | 8222017IS3 8/9/17 REFRESHMENTS FOR 8/17 COMMISSION MTG | | 9.13 | 18 |
| | | 8222017IS4 8/9/17 MEALS EXPENSE FOR MATERIAL SVCS SUPV | | 58.81 | 18 |
| | | 8222017IS5 8/16/17 SUPPLIES FOR SVCW EVENTS - INSTACAR | | 147.93 | 18 |
| | | 8222017JD1 8/7/17 ANNUAL MEMBERSHIP FEE FOR FREE 2 DAY | | 107.66 | 18 |
| | | 8222017LB1 7/30/17 FASKTRAK CHARGES | | 195.00 | 18 |
| CONF. & TRAV. | | 8222017MA1 8/11/17 FUEL EXPENSE - CHEVRON | | 52.73 | 18 |

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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|--------------------------------------------------------|----------|----------|------|
| U.S. BANK CORPORATE PAYMENT SY | 21455 | | 9,314.65 | | |
| CONF. & TRAV. | | 8222017MA2 8/13/17 FUEL EXPENSE - CONSERV FUEL | | 41.12 | 18 |
| MACH & EQUIP MAINT SERVICES | | 8222017MH1 7/24/17 CAR WASH FOR SVCW VEHICLE - PRIME S | | 10.00 | 18 |
| | | 8222017MH2 8/13/17 CAR WASH FOR SVCW VEHICLE - PRIME S | | 10.00 | 18 |
| MEMB. & MEET. | | 8222017TH1 7/29/17 QTY 1 CLOUD STORAGE APP - APL ITUNE | | 0.99 | 18 |
| | | 8222017TH2 8/7/17 DBIA ANNUAL MEMBERSHIP RENEWAL 10/1/ | | 99.00 | 18 |
| CONF. & TRAV. | | 8222017TH3 8/14/17 AIRFARE TO CASA - SOUTHWEST AIRLINE | | 247.96 | 18 |
| | | 8222017TH4 8/14/17 AIRFARE TO CASA - SOUTHWEST AIRLINE | | 247.96 | 18 |
| | | 8222017TH5 8/14/17 PLANE TICKET UPGRADE TO CASA-SOUTHW | | 15.00 | 18 |
| | | 8222017TH6 8/14/17 PLANE TICKET UPGRADE TO CASA-SOUTHW | | 15.00 | 18 |
| | | 8222017TH7 8/14/17 PLANE TICKET UPGRADE TO CASA-SOUTHW | | 15.00 | 18 |
| | | 8222017TH8 8/14/17 PLANE TICKET UPGRADE TO CASA-SOUTHW | | 15.00 | 18 |
| CONTRUCTION-DESIGN | | 8222017VV1 8/10/17 MEALS FOR GRAV PIPELINE/INTERVIEW P | | 455.54 | 20 |
| | | 8222017VV2 8/10/17 MEALS FOR GRAV PIPELINE/INTERVIEW P | | 65.78 | 20 |
| | | 8222017VV3 8/10/17 CREDIT FOR MEALS GRAV PIPELINE/INTE | | -40.00 | 20 |
| SMALL TOOLS | | 8222017DGC1 8/4/17 QTY 2 DELL COMPUTERS FOR IT - DELL | | 4,685.98 | 18 |
| MISCELLANEOUS | | 8222017DGC2 8/21/17 WATER - COSTCO | | 369.60 | 18 |
| SUPPLIES | | 8222017DM12 8/21/17 QTY 1 MARATHON JUMBO ATOMIC WALL C | | 76.07 | 18 |
| MISCELLANEOUS | | 8222017DM1TAX SALES TAX LIABILITY | | -6.56 | 18 |
| | | 8222017DM3TAX SALES TAX LIABILITY | | -8.40 | 18 |
| | | 8222017DM6TAX SALES TAX LIABILITY | | -174.98 | 18 |
| | | 8222017DM8TAX SALES TAX LIABILITY | | -11.06 | 18 |
| | | 8222017DM10TAX SALES TAX LIABILITY | | -2.99 | 18 |
| | | 8222017DM12TAX SALES TAX LIABILITY | | -6.12 | 18 |
| MACHINERY AND EQUIP MAINT MATE | | 8222017DM1 7/26/17 QTY 1 VITON 510 PIECE O-RING KIT-TH | | 94.15 | 18 |
| | | 8222017DM10 8/18/17 QTY 2 WHEELER REX CLAMP REMOVAL TO | | 47.92 | 18 |
| SUPPLIES | | 8222017DM11 8/21/17 QTY 2 VICTOR TUFFCALC CALCULATOR-A | | 24.04 | 18 |
| | | 8222017DM3 8/3/17 QTY 8 NORDIC WARE COMPACT OVENWARE M | | 104.40 | 18 |
| | | 8222017DM4 8/4/17 QTY 1 15 INCH MACBOOK PRO-APPLE STOR | | 2,614.91 | 18 |
| MACHINERY AND EQUIP MAINT MATE | | 8222017DM5 8/7/17 QTY 3 FLOWMETER STANDARD FLOW-GLOBAL | | 214.78 | 18 |
| MISCELLANEOUS | | 8222017DM5 8/7/17 QTY 3 FLOWMETER STANDARD FLOW-GLOBAL | | 94.56 | 18 |

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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|--------------------------------|-------------------|--------------------------------------------------------|-----------|-----------|------|
| U.S. BANK CORPORATE PAYMENT SY | 21456 | | 3,156.46 | | |
| SMALL TOOLS | | 8222017DM6 8/9/17 QTY 2 SIMPSON PRESSURE WASHER-POWER | | 2,174.76 | 18 |
| MACHINERY AND EQUIP MAINT MATE | | 8222017DM8 8/18/17 QTY 3 AC POWERED ISOLATOR-ACROMAG I | | 320.81 | 18 |
| MISCELLANEOUS | | 8222017DM8 8/18/17 QTY 3 AC POWERED ISOLATOR-ACROMAG I | | 660.89 | 18 |
| U.S. HEALTHWORKS MEDICAL GROUP | 21457 | | 228.00 | | |
| PROFESSIONAL SERVICES | | 3179975CA 8/21/17 PRE-EMPLOYMENT PHYSICAL-S SHANKAR | | 228.00 | 18 |
| UNIVAR USA INC. | 21458 | | 26,929.62 | | |
| CHEMICAL SUPPLIES | | SJ833343 8/15/17 3999 GAL SOD HYPO | | 2,122.26 | 18 |
| | | SJ833402 8/13/17 3050 GAL SOD HYPO | | 1,618.64 | 18 |
| | | SJ833427 8/10/17 3997 GAL SOD HYPO | | 2,121.21 | 18 |
| | | SJ834102 8/19/17 4076 GAL SOD HYPO | | 2,163.14 | 18 |
| | | SJ834569 8/22/17 3999 GAL SOD HYPO | | 2,122.26 | 18 |
| | | SJ834993 8/24/17 4079 GAL SOD HYPO | | 2,164.72 | 18 |
| | | SJ835006 8/23/17 4000 GAL SOD HYPO | | 2,122.80 | 18 |
| | | SJ835295 8/27/17 4000 GAL SOD HYPO | | 2,122.80 | 18 |
| | | SJ835320 8/26/17 4077 GAL SOD HYPO | | 2,163.66 | 18 |
| | | SJ835323 8/27/17 3999 GAL SOD HYPO | | 2,122.26 | 18 |
| | | SJ835498 8/28/17 4305 GAL SOD BISULFITE | | 6,085.87 | 18 |
| V&A CONSULTING ENGINEERS, INC. | 21459 | | 14,473.10 | | |
| CONSTRUCTION-CONTRACTOR | | 16991 7/7/16-7/31/17 CHLORINE CONTACT TANK ASSESSMENT- | | 14,473.10 | 20 |
| VALLEY OIL COMPANY (VEHICLE FU | 21460 | | 621.31 | | |
| SUPPLIES | | 472626 8/1-8/13/17 FUEL CHARGES COMPANY VEHICLES | | 621.31 | 18 |
| VERIZON WIRELESS | 21461 | | 1,998.19 | | |
| UTILITIES | | 9791281881 7/20-8/19/17 VERIZON SERVICE | | 1,912.15 | 18 |
| | | 9791281882 7/20-8/19/17 VERIZON SERVICE | | 76.02 | 18 |
| | | 9791584144 7/24-8/23/17 VERIZON SERVICE | | 10.02 | 18 |

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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|------------------------------|-------------------|--------------------------------------------------------|-----------|----------|------|
| VWR INTERNATIONAL, LLC | 21462 | | 2,441.99 | | |
| SMALL TOOLS | | 8049478235 LAB SUPPLIES | | 584.23 | 18 |
| SUPPLIES | | 8049489431 LAB SUPPLIES | | 304.09 | 18 |
| | | 8049489431 LAB SUPPLIES | | 317.94 | 18 |
| | | 8049489431 LAB SUPPLIES | | 317.94 | 18 |
| | | 8049489431 LAB SUPPLIES | | 317.94 | 18 |
| | | 8049489431 LAB SUPPLIES | | 317.94 | 18 |
| | | 8049544405 LAB SUPPLIES | | 119.51 | 18 |
| | | 8049544405 LAB SUPPLIES | | 117.99 | 18 |
| | | 8049554293 LAB SUPPLIES | | 44.41 | 18 |
| WANDRO, ROBERT | 21463 | | 1,260.34 | | |
| CONF. & TRAV. | | 9082017 REIM-8/6-8/12/17 TRAVEL EXPENSES - NEMCO, WASH | | 1,260.34 | 18 |
| WATKINS AND ASSOCIATES | 21464 | | 2,950.00 | | |
| TRAINING | | 20170014 7/14/17 WAA PROPOSAL - EMO TRAINING | | 105.36 | 18 |
| | | 20170014 7/14/17 WAA PROPOSAL - EMO TRAINING | | 526.79 | 18 |
| | | 20170014 7/14/17 WAA PROPOSAL - EMO TRAINING | | 737.50 | 18 |
| | | 20170014 7/14/17 WAA PROPOSAL - EMO TRAINING | | 526.79 | 18 |
| | | 20170014 7/14/17 WAA PROPOSAL - EMO TRAINING | | 105.36 | 18 |
| | | 20170014 7/14/17 WAA PROPOSAL - EMO TRAINING | | 105.36 | 18 |
| | | 20170014 7/14/17 WAA PROPOSAL - EMO TRAINING | | 842.84 | 18 |
| WELLS FARGO-COMML OPERATIONS | 21465 | | 4,009.67 | | |
| INTEREST EXPENSES | | 1711206001 LOC# 7829596836 8/17 INTEREST FEE-LINE OF C | | 378.91 | 20 |
| | | 1711206001 LOC# 7829596836 8/17 INTEREST FEE-LINE OF C | | 607.06 | 20 |
| | | 1711206001 LOC# 7829596836 8/17 INTEREST FEE-LINE OF C | | 1,947.50 | 20 |
| | | 1711206001 LOC# 7829596836 8/17 INTEREST FEE-LINE OF C | | 1,076.20 | 20 |
| WESTERN ENERGY SYSTEMS | 21466 | | 13,852.08 | | |
| MACH & EQUIP MAINT SERVICES | | 3782217 7/17 LTSA SERVICE AGREEMENT UNIT 1 | | 6,080.16 | 18 |
| | | 3782218 7/17 LTSA SERVICE AGREEMENT UNIT 2 | | 7,771.92 | 18 |

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TOTAL

\$610,043.57

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SVCW WARRANT REGISTER

Warrant Register dated September 22, 2017. A scanned copy was e-mailed to Commissioners on September 1J, 2017.

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| NAME | WARRANT NUMBER | INVOICE #/DESCRIPTION | AMOUNT | DETAIL | FUND |
|-----------------------------|-------------------|--------------------------------------------------------|-----------|-------------|------|
| DNS STRATEGIC PARTNERS, LLC | 21467 | | 31,500.00 | | |
| CONTRUCTION-DESIGN | | 17200101 8/17 PROFESSIONAL CONSULTING - VARIOUS PROJEC | | 25,000.00 | 20 |
| | | 17200101B 8/17 T.O.2017-01 PROF CONSULTING SVCS - VARI | | 6,500.00 | 20 |
| | | TOTAL | | \$31,500.00 | |

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St-epd 9-24-17

**RESCU PROGRAM
CO-LOCATION FACILITIES**

ISSUE

Approve Expenditures for Mobile Office Facilities to Serve as Offices for Gravity Pipeline and Front of Plant Design-Build Teams.

BACKGROUND

SVCW's Regional Environmental Sewer Conveyance Upgrade (RESCU) Program includes conveyance system improvements to transport wastewater from member agencies' collection systems to the SVCW wastewater treatment plant. A major component of the conveyance system is the Gravity Pipeline project to be constructed by tunneling methods from the north edge of Inner Bair Island to the treatment plant. Another major component is the Front of Plant project to provide deep lift station pumping, screening raw wastewater and grit removal (collectively, "headworks"), and conveyance to the existing primary sedimentation tanks in the treatment plant.

A method for ensuring strong interaction between the two RESCU project components, their respective design-build teams and SVCW staff is to co-locate into mobile offices near the Front of Plant construction site. Staff is working with Mobile Modular to provide office trailers to suit the needs of the teams.

DISCUSSION

Staff contacted several vendors and evaluated the benefits of leasing versus buying trailers for the program. After review, it was determined that leasing from Mobile Modular Inc. is the least cost option to meet the RESCU project's Progressive Design-Build needs.

Mobile Modular provided quotes for the lease, delivery and set-up of three triple-wide office trailers, including all interior work to provide offices, restrooms, kitchenette, and conference rooms. The quotation was received on September 6, 2017 and a deposit was needed to initiate the process.

A check was issued to cover the initial deposit costs associated with the construction, delivery and set-up of three office units. As the costs were broken down into various components, staff failed to recognize the total amount of the various components exceeded the Manager's approval level of \$50,000 and a check was issued without the Commission's prior authorization. This action will provide Commission ratification of the expenditure. It should be noted that the new accounting system recently authorized by the Commission will have safety checks built into it that will not allow a payment to be made without the proper levels of authorization.

In addition to the three triple-wide trailers, it is now known that another set of offices are needed to house the staff associated with the projects. Staff is currently negotiating the lease of two additional triple-wide office trailers from Mobile Modular. It is anticipated the required deposit for the additional offices will be below the Manager's purchase authority of \$50,000.

In order to use the offices, Teichert Construction, the constructor doing site civil work at the front of plant, has been asked to build a pad upon which the trailers will be set. The work also includes installation of conduit and cabling for electrical and telecommunications hook-ups, electrical breakers and a step-down transformer. Their work scope was developed for the original three triple-wide trailers. With the addition of a second set of trailers, a contract change order is needed to provide a laydown site and additional power and telecommunication facilities. The cost for the additional civil work is being negotiated with Teichert, but is estimated to be close to \$250,000.

To ensure that the schedule for providing office trailers to the design-build teams is met, staff is requesting authorization for the Manager to approve a contract change order to Teichert Construction in an amount not to exceed \$250,000 to provide needed infrastructure to serve the additional two triple-wide offices.

FINANCIAL IMPACTS

The scope represented by this work will be funded from four projects: Gravity Pipeline project (CIP #6008), which has an allocated budget in the 2015 CIP Update of \$220M, Receiving Lift Station (CIP #6013) with an allocated budget of \$50.5M Headworks (CIP #9160) with an allocated budget of \$43M, and Influent Connector Pipe (CIP #6014) with an allocated budget of \$9.1M. To date, approximately \$12.5 million has been expended from the four projects. The total not-to-exceed amount for the actions in this agenda item is \$318,927, including the previously paid amount of \$68,927.

RECOMMENDATION

- i. Move approval of DEPOSIT PAID TO MOBILE MODULAR IN THE AMOUNT OF \$68,927 – MOBILE MODULAR MANAGEMENT
- ii. Move approval of AUTHORIZATION FOR MANAGER TO ISSUE A CONTRACT CHANGE ORDER FOR FRONT OF PLANT SITE CIVIL WORK IN AN AMOUNT NOT TO EXCEED \$250,000 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – TEICHERT CONSTRUCTION

**GRAVITY PIPELINE PROJECT (CIP #6008)
DESIGN BUILD STAGE 1 AGREEMENTS**

ISSUE

Approval of Design-Build Agreement for Barnard-Bessec Joint Venture, Kennedy Jenks Task Order for Owner Engineering Advisor Services and Tanner Pacific Task Order for Construction Quality Assurance Services associated with Stage 1 of the Gravity Pipeline Project (CIP #6008).

BACKGROUND

SVCW's Regional Environmental Sewer Conveyance Upgrade (RESCU) Program includes conveyance system improvements to transport wastewater from member agencies' collection systems to the SVCW wastewater treatment plant. A major component of the conveyance system is the Gravity Pipeline project to be constructed by tunneling methods from the north edge of Inner Bair Island to new Front of Plant facilities at the treatment plant.

In January 2016, the Commission approved a policy establishing a procedure for implementing the Design-Build process for delivery of construction projects. This policy was updated with minor modifications in March and May of 2017. The decision to use the design-build process is evaluated by staff on a project-by-project basis. Staff recommended to the Commission that two RESCU projects be delivered using the design-build process; the Gravity Pipeline project and the Front of Plant project. The bases for this recommendation was 1) the ability for this process to be optimized in terms of "best minds around the table" for project definition/design, 2) potential for significant schedule reductions, and 3) potential for overall cost reductions.

To implement the design build process, early design services are needed that define the project enough that design-builders can propose services to complete the design and subsequent construction. To that end, in January 2017 the Commission approved Task Orders for Owners Engineering Advisor Services for the Conveyance System Program including Kennedy/Jenks for the Gravity Pipeline project and Brown and Caldwell for the Front of Plant project.

For the Gravity Pipeline project, the following process leading to the recommendation of a Design-Build company was implemented. This process conforms to the Design-Build Policy previously approved by the Commission.

- Manager appointed a D-B Procurement Team (comprised of SVCW staff, Owner's Engineering Advisor and Legal Counsel specializing in design-build procurement.)
- Procurement Team prepares documents setting forth scope and estimated price of project ("Procurement Documents")
- Procurement Team prepares Request for Qualifications
- Manager submits Procurement Documents to Commission for approval concurrent with recommendation to issue RFQ (April 2017)

- Prequalification process commences, including the requirement for use of a skilled and trained workforce
- Procurement Team shortlists the responding firms submitting Statements of Qualifications based on prequalification criteria.
- Procurement Team prepares a Request for Proposal (RFP), including the Design-Build Agreement, and issues the RFP to the short-listed D-B firms
- Upon receipt of proposals, Procurement Team evaluates and ranks the firms; Manager submits to the Commission the tentatively selected firm with a recommendation to award the contract (subject of this Commission action item).
- The award of the D-B contract is publicly announced by Manager with a statement regarding the basis of the award.

DISCUSSION

Six companies submitted Statements of Qualifications from which the Procurement Team shortlisted three firms and issued Requests for Proposal. The three shortlisted firms were:

- Barnard-Bessac Joint Venture with ARUP as the design engineer
- Kiewit-McNally Joint Venture with Stantec as the design engineer
- Obayashi-JayDee Joint Venture with McMillan Jacobs as the engineer

The basis for selection used scored criteria under the following four categories: 1) Proposals, 2) Reference input and feedback, 3) Interviews, and 4) Cost proposals.

After an exhaustive and thorough process considering each firm, the Procurement Team unanimously agreed to recommend awarding the Gravity Pipeline Design-Build contract to the Barnard-Bessac JV with ARUP.

Prior to bringing the recommendation to the Commission, SVCW management met with Barnard-Bessac JV management to negotiate the final terms of the Design-Build Agreement. The Design Build Agreement includes the following components:

- Defines the Design-Build Team (names individuals and firms) and relationship of the parties
- Owner's Obligations
- Design-builder's obligations
- Subcontractors
- Compensation and contract time
- Changes and payment
- Indemnification
- Insurance and bonds
- Warranty of the Work
- Various miscellaneous provisions

The agreement is written to address both Stage 1 (the subject of this Commission action item) as well as Stage 2. Stage 1 brings the current design (about 10% design) to

60% design and includes preparation and negotiation of pricing for Stage 2. Stage 2 then includes completing the design and construction of the Gravity Pipeline Project. Stage 2 will be brought to the Commission for consideration as an amendment to the Design-Build agreement recommended for approval in this action item. Consideration will be given during Stage 1 to an approach that would lower project costs by phasing Stage 2 tasks to possibly include early procurement of a Tunnel Boring Machine and concrete segment molds (typical one year lead time).

Prior to bringing the Stage 2 amendment(s) to the Commission for consideration, two independent cost estimates will be prepared (one by SVCW's Owners Engineering Advisor and one by SVCW's Construction Manager/Quality Assurance consultant). Differences among the three prices will be resolved and negotiated to arrive at a recommended price for Stage 2 that is competitive in the marketplace at the time.

The recommended award of the work to the Barnard-Bessac JV is on the basis of best value considering the criteria and point system described in the Request for Proposals and outlined above. The Barnard-Bessac JV was determined to provide the best value to SVCW based on their superior qualifications, experience, approach to the project and pricing in combination. The recommended contract amount for Stage 1 services is \$7,989,358. This amount is a not-to-exceed amount and payment will be based on actual time and expenses.

Also recommended for approval in this action item are Task Orders for Kennedy Jenks for Owner Engineering Advisor Services and Tanner Pacific for Construction Management/Quality Assurance Services associated with Stage 1 of the Gravity Pipeline Project.

Kennedy Jenks services as Owner's Engineering Advisor will include assisting SVCW staff with oversight and coordination of the Stage 1 work, review of hydraulic modeling for wastewater flows, air movement, and corrosion protection, review of Basis or Design Report and subsequent design reviews, and preparation of an independent cost estimate for Stage 2 and assistance with negotiation of the Stage 2 Design-Build amendment.

Tanner Pacific Construction Management/Quality Assurance Services will include assisting SVCW staff with document management, development of construction schedules and staging plans, review of shaft and tunnel designs for constructability, review of approaches to protect existing structures and facilities and preparation of an independent cost estimate for completion of Stage 2 for comparison with pricing submitted by the Design-Builder.

As a means of minimizing project costs and given the variableness of the need that SVCW will have for assistance for Owner's Engineering Advisor and Construction Quality Assurance services each of the two task orders is structured with a base amount and additional services. The additional services will be authorized by the Manager on an as needed basis. The recommended Task Order amounts represent the

total of the base and additional services and are \$1,311,606 for Kennedy Jenks Owner's Engineering Advisor services and \$939,767 for Tanner Pacific Construction Management/Quality Assurance services.

FINANCIAL IMPACTS

The scope represented by this work will be funded from the Gravity Pipeline project (CIP #6008), which has an allocated budget in the 2015 CIP Update of \$220 million. To date, approximately \$10 million has been expended. The total not-to-exceed amount for the three actions in this agenda item is \$10,240,731.

RECOMMENDATION

- i. Move adoption of RESOLUTION APPROVING DESIGN BUILD AGREEMENT DOCUMENTS FOR GRAVITY PIPELINE PROJECT (CIP #6008); AUTHORIZING EXECUTION OF AGREEMENT AND AUTHORIZING MANAGER TO APPROVE CONTRACT CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID PROJECT – BARNARD-BESSAC JOINT VENTURE - (\$7,989,358.00)
- ii. Move approval of TASK ORDER SCOPE AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE GRAVITY PIPELINE PROJECT (CIP #6008) IN AN AMOUNT NOT TO EXCEED \$1,311,606.00 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – KENNEDY/JENKS CONSULTANTS
- iii. Move approval of TASK ORDER SCOPE AND BUDGET FOR CONSTRUCTION MANAGEMENT/QUALITY ASSURANCE SERVICES FOR THE GRAVITY PIPELINE PROJECT (CIP #6008) IN AN AMOUNT NOT TO EXCEED \$939,767.00 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – TANNER PACIFIC INC.

**NEW 12KV SWITCHGEAR (CIP #9807)
ENGINEERING DESIGN SERVICES**

ISSUE

Approval of Beecher Engineering & Kennedy/Jenks Task Order Scope and Budget for Engineering Services for the 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.

The Front-of-Plant project will significantly increase the Plant's overall electrical demand; particularly to serve the new Receiving Lift Station (RLS) and Headworks. These new facilities require expansion 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 been in discussions with PG&E about opportunities 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.

The additional demands from the Front-of-Plant project, the desire for redundant power feeds, and power export opportunities require installing a new 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 significant power demand at the plant site. Most of the higher power demand will be offset by smaller pumps to be used 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. 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 through its cogeneration engines. This limitation is due to a "non-export" provision in SVCW's agreement with PG&E. 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 second 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 flood elevation, thus ensuring an even more robust power system to serve the treatment plant.

Two engineering consulting firms have been working with staff on the overall electrical system and plant power needs; Beecher Engineering and Kennedy/Jenks. The firms are intimately familiar with SVCW's treatment plant power needs and geotechnical/structural requirements in young bay mud, respectively. Engineering scopes of work and budgets with both firms have been negotiated to provide design and engineering services during construction for the new 12kV switchgear. Beecher Engineering will perform the electrical design and Kennedy Jenks will provide the structural and mechanical design. Beecher Engineering will also be the liaison with PG&E to complete the Rule 21 compliance application and assist SVCW staff with negotiating a new PG&E service agreement.

The budget for the completion of the scope of work is a not-to-exceed amount of \$377,756 for Beecher Engineering and \$323,972 for Kennedy Jenks; budgets will be expended on a time and expense basis. The scopes and budgets take the work effort from design through construction. Design is scheduled for completion in three months and construction will follow immediately thereafter; a final installation date of December 2018 is anticipated.

FINANCIAL IMPACT

Work under this task order will be funded from a project in the 2017 CIP Update, 12kV Primary Switchgear project (CIP #9807), which has an allocated capital budget of \$10.6 million. The not-to-exceed fee for design services is \$459,892, representing 7.3% of the construction budget; this is well below industry standards for Engineering Design Services. The not-to-exceed fee for engineering services during construction is \$241,836, representing 3.8% of the construction budget; which is also below industry standards for Engineering Services During Construction.

RECOMMENDATION

- i. Move approval of TASK ORDER SCOPE OF WORK AND BUDGET FOR ELECTRICAL ENGINEERING SERVICES FOR THE NEW 12KV SWITCHGEAR PROJECT (CIP #9807) IN AN AMOUNT NOT TO EXCEED \$377,756 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – BEECHER ENGINEERING
- ii. Move approval of TASK ORDER SCOPE OF WORK AND BUDGET FOR ENGINEERING SERVICES FOR THE NEW 12KV SWITCHGEAR PROJECT (CIP #9807) IN AN AMOUNT NOT TO EXCEED \$323,972 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – KENNEDY/JENKS

**CAPITAL IMPROVEMENT PROGRAM
2017 UPDATE PLAN AND CEQA COMPLIANCE****ISSUE**

Adopt the 2017 CIP Update Plan and CEQA Compliance.

BACKGROUND

SVCW's first Capital Improvement Program (CIP) was adopted by the Commission in May 2008. At the time, it was intended that the CIP would be a "living program" and would be updated as new information became available and as necessary to appropriately plan and implement capital facility replacement and improvements. To that end, an update to the CIP was presented to the Commission at the April 2011 Commission meeting, at which time the Commission adopted the 2011 CIP Update Plan and corresponding CEQA conclusions. Additionally, the 2012 CIP Update Plan and CEQA conclusions were adopted at the July 2012 meeting, the 2013 Update Plan and CEQA conclusions in November 2013 and the 2015 Update Plan and CEQA conclusions on June 11, 2015. Over the past nine years, many major projects have been undertaken and completed and the CIP is now a long-term rolling process to keep SVCW facilities in good operating condition and performing intended services.

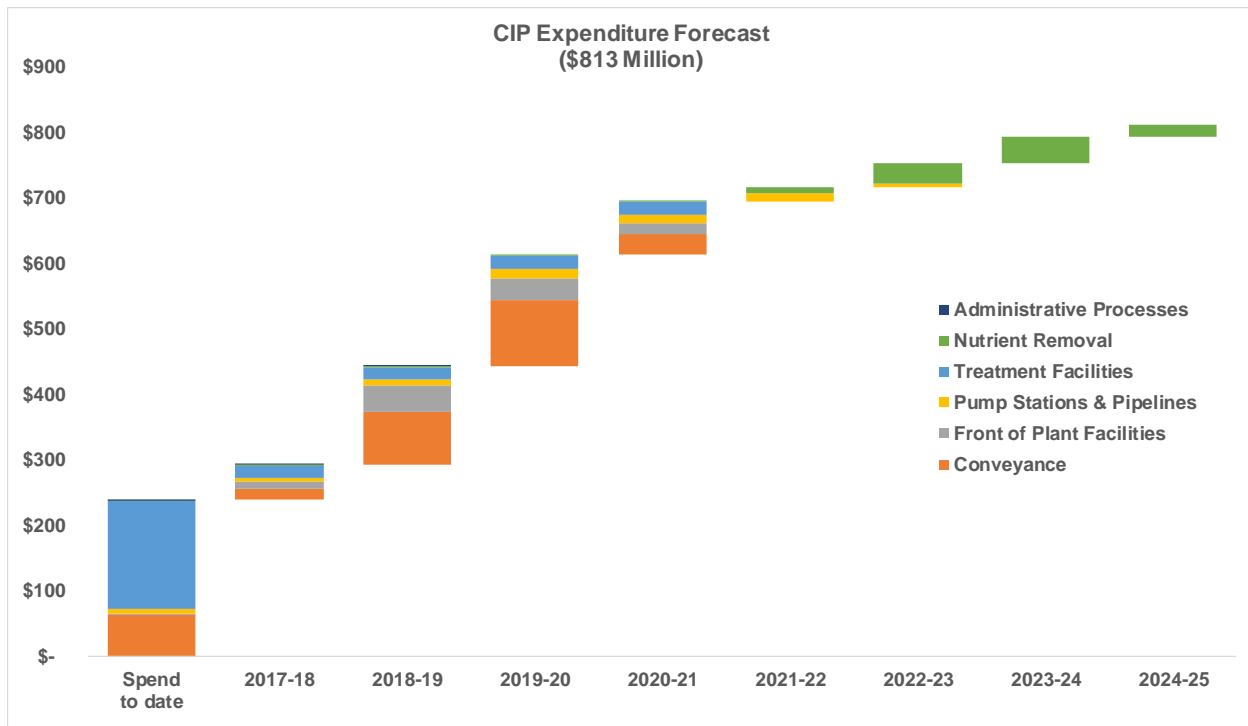
DISCUSSION

The CIP has evolved from the original concept of a single ten-year program, to an evolutionary process that will continue throughout the time needed to serve the community. A current and comprehensive Capital Improvement Program is a common and invaluable tool for public agencies. The SVCW CIP allows methodical planning for capital improvements to ensure that facilities necessary for transport and treatment of the community's wastewater are provided. It is also necessary for a public agency to adequately protect the capital assets of its primary core function.

There are many ancillary uses of a long range CIP. For example, it allows an agency to make informed decisions about funding it will need to collect from the citizens it serves to ensure the rates are adequate to meet the required expenditures when they occur. It is also a valuable vehicle to comply with environmental documentation necessary for California Environmental Quality Act (CEQA) compliance.

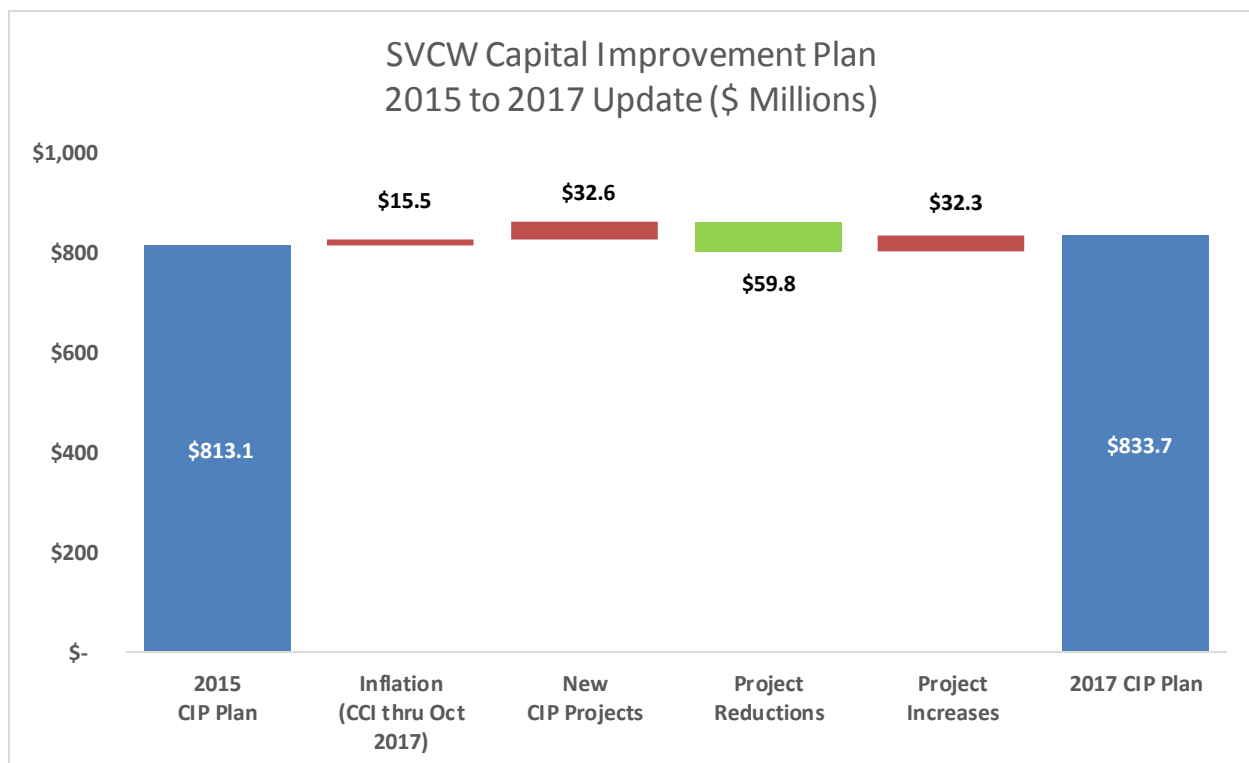
The current update to the CIP includes information regarding the status of projects already identified, newly identified projects, updates estimated project costs and timing, indicates completed projects and provides corresponding budgets for each. The CIP update also includes consideration of necessary CEQA actions for projects from inception (2008) through Fiscal Year 2024-2025. For most of the treatment plant rehabilitation projects, CEQA actions are comprised of Categorical Exemptions or Statutory Exemptions. For projects that occur outside the wastewater treatment plant facilities, Initial Studies and subsequent documentation may be needed and is determined on a case-by-case basis.

Approximately \$239 million has been spent on Capital projects to date. Inclusive of actual spending, the 2015 CIP had been estimated at \$813 million in 2016 dollars.



The 2017 CIP Update increases over the 2015 CIP Update by \$20.5 million, including inflation, new projects, reductions in project spending, and increases in project spending. The proposed 2017 CIP Update estimates costs at \$834 million.

It should be noted that estimates are evaluated every two years based on the information available at the time. Project costs and required work changes are based on the construction climate in the area, regulatory and environmental requirements and the economy as a whole. Future updates may add or remove projects and costs as needed to address changes that occur over the two year measurement period.



- Inflation is estimated at \$15.5 million, based upon Construction Cost Index figures from Engineering News Record reports specific to the San Francisco Bay Area.
- Seven new projects were added to this update:

| New Projects - 2017 CIP Update | |
|--------------------------------------|----------------|
| Description | \$ Millions |
| 12 kW Primary Switchgear | \$ 10.6 |
| Solar PV System | 7.9 |
| San Carlos PS Demo and Odor Control | 5.8 |
| Radio Road Wetlands Restoration | 3.5 |
| In-Plant Power (12kW) Rehabilitation | 2.3 |
| Energy Storage | 2.0 |
| MPPS FM Junction Box at RWCPS | 0.4 |
| TOTAL | \$ 32.6 |

- Reductions in project spending:

| 2017 CIP Update - Projects Reductions vs. 2015 CIP Plan | |
|---------------------------------------------------------------|----------------|
| Project Name | \$ Millions |
| Biological / Secondary Process Optimization | \$ 36.3 |
| Property Acquisition | 2.5 |
| Conveyance System Master Plan (CSMP) | 2.4 |
| Small Capital Equipment Replacement | 2.3 |
| Anaerobic Digestion Process Automation | 1.7 |
| Demolition of Abandoned Equipment in Solids Handling Building | 1.6 |
| OCIP Funding | 1.1 |
| Influent Force Main Emergency Repair | 1.1 |
| Headworks Odor Control | 1.1 |
| Future Plant Electrical System Panel Replacement | 0.8 |
| Conveyance System CEQA | 0.7 |
| CIP Financial Assistance | 0.7 |
| Stage 1 Screening at Plant Influent | 0.6 |
| Long Term Strategic Recycled Water Planning | 0.5 |
| Other Projects reductions less than \$500 thousand each | 6.5 |
| TOTAL | \$ 59.8 |

- Increases in project spending from 2015 Update:

| 2017 CIP Update - Increases in Projects from 2015 CIP | |
|--------------------------------------------------------|----------------|
| Project Name | \$ Millions |
| Front of Plant Site Civil | \$ 17.3 |
| Wetside Redundant Power Improvements | 4.5 |
| Cogeneration Engine Replacement | 4.1 |
| Gravity Thickener Process Automation | 1.7 |
| 48-inch Force Main Reliability Improvement | 1.2 |
| Primary Sedimentation Control System | 0.9 |
| Dewatering and Solids Handling Improvements - Phase I | 0.8 |
| Effluent Pipeline and Outfall Reliability Improvement | 0.8 |
| Other Projects increases more than \$500 thousand each | 1.1 |
| | \$ 32.3 |

FINANCIAL IMPACT

This 2017 CIP predicts approximately \$595 million remains to be spent, which will be financed using a defined long-term debt strategy. Since Member Agency sewer rates provide the underlying repayment security for this financing, SVCW annually updates its Long Range Financial Plan (LRFP) as a roadmap for funding the CIP.

The most recent update of January 2017 was based upon the \$813 million numbers from the 2015 CIP which, in January 2018, will be updated to reflect the \$834 million outlined above. This revised LRFP will be presented to Member Agencies for incorporation into their respective budgets and rate strategies.

RECOMMENDATION

Move adoption of RESOLUTION APPROVING AND ADOPTING THE 2017 UPDATE OF THE SILICON VALLEY CLEAN WATER CAPITAL IMPROVEMENT PROGRAM PLAN AND CORRESPONDING CEQA CONCLUSIONS

Appendix C

CEQA Documentation

Appendix C

CEQA

California Environmental Quality Act Compliance

SVCW will act as Lead Agency for the projects in the 2017 CIP Update. The California Environmental Quality Act (CEQA) requires that SVCW adequately assess the environmental impacts of its capital projects. Some projects in the CIP will require an Initial Study to comply with CEQA, some will require further project definition to analyze for necessary CEQA action, while some projects will fall under statutory or categorical exemption from further CEQA analysis. The Commission will consider approval of CIP projects after preparation and certification of the appropriate CEQA documentation.

For certain projects, SVCW may act as a Responsible Agency and would rely on other agencies to prepare the primary environmental documentation. These projects require Environmental Impact Reports (EIRs) or Negative Declarations, which were previously approved by other agencies.

CEQA Exemptions

The CIP itself is exempt from CEQA as a planning study (CEQA Guideline Section 15262). Some projects included in this CIP are likewise exempt under CEQA. The CEQA certifications for these projects will be considered approved when the Commission adopts the 2017 CIP Update.

The following summary lists the applicable exemptions for SVCW's CIP projects:

| | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Statutory Exemption:</u> | CEQA Guideline 15262 – Feasibility and Planning Studies CEQA Guideline 15269 – Emergency Project |
| <u>Categorical Exemption:</u> | CEQA Guideline 15301 –Existing Facilities (repair, operation, maintenance; negligible or no expansion of an existing use) CEQA Guideline 15302 – Replacement or Reconstruction of Existing Facilities CEQA Guideline 15303 – New Construction or Conversion of Small Structures CEQA Guideline 15306 – Information Collection CEQA Guideline 15322 – Educational or Training Programs Involving No Physical Changes CEQA Guideline 15329 – Cogeneration Projects at Existing Facilities CEQA Guideline 15330 – Minor Actions to Prevent, Minimize, Stabilize, Mitigate, or Eliminate the Release or Threat of Release of Hazardous Waste or Hazardous Substances CEQA Guideline 15378 – Activity is not defined as a project per guidelines. |

CEQA Compliance Status

The CEQA compliance status was reviewed for all projects listed in the CIP. Each project was reviewed for the type of CEQA documentation that is required. Types of CEQA compliance are indicated in the table below.

Types of CEQA Compliance

| | |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Further Project Definition Required | In some cases, the project is not yet sufficiently defined to allow a determination to be made on the appropriate level of environmental documentation. A preliminary review of these projects will be made when the project is more clearly defined. |
| Exemption | A preliminary review of the project has concluded that the project designated in the table as exempt has been granted an exemption by statute or by categories established in the State CEQA Guidelines. Adoption of the CIP Budget constitutes Commission approval of the projects that are listed in the table as exempt under CEQA. Certain CIP projects noted as “Not a Project Under CEQA” are also exempt from further CEQA review. |
| Initial Study/ EIR/Negative Declaration | Initial Study of the project will be undertaken to determine if the project may have a significant effect on the environment. Depending on the results of the study, either a Negative Declaration or EIR will be prepared. Commission approval of the project will follow approval of the Negative Declaration or EIR. |
| Previous CEQA Document Approved | For these projects, CEQA compliance has already been achieved through documents previously prepared and approved. If CEQA documents were prepared by other agencies, SVCW may need to make specific findings and, subsequently, file additional documentation at the time the project receives Commission approval. |

The CEQA compliance status of the various projects in the CIP is indicated in the following tables. For each project listed in the table, the type of CEQA documentation that has been completed or is anticipated to be required is indicated. The table is organized by CIP Project number. In some cases, Notices of Exemptions (NOE) are filed with the State Clearinghouse. SVCW is not required to file NOEs with the State but in some cases does so to be in compliance with State and/or Federal funding requirements or other reasons such as requests from sureties or contractors.

This analysis and approval complies with CEQA Guidelines issued by the State of California.

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|----------------------------------------------------|------------|---------------------------------------------|--------------------------------|--------------------------------|----------------------------|---------------------------------------|-------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 6001 | 48-inch Force Main Reliability Improvement | 2008 | | | | CEQA/ NEPA Required | MND | NOD filed on October 11, 2012 |
| 6002 | Conveyance System Master Plan (CSMP) | 2008 | SE | Feasibility and Planning Study | 15262 | | | |
| 6003 | Influent Force Main Emergency Repair | 2008 | SE | Emergency Project | 15269 | | | |
| 6004 | Flow Diversion/ Equalization Facility Improvements | 2015 | | | | IS Required; CEQA Required | Included in EIR for Conveyance System | EIR approved April 13, 2017 |
| 6006 | Conveyance System CEQA | 2014 | SE | Feasibility or Planning Study | 15262 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------------|------------------------------------------------|--------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 6008 | Tunnel and Gravity Pipeline | 2015 | | | | IS Required; CEQA Required | Included in EIR for Conveyance System | EIR approved April 13, 2017 |
| 6010 | Force Main Conveyance System Program - General Support | 2011 | | Not a project under CEQA | 15378 | | | |
| 6012 | Effluent Pipeline and Outfall Reliability Improvement | 2014 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed March 6, 2015 |
| 6013 | Receiving Lift Station | 2015 | | | | IS Required; CEQA Required | Included in EIR for Conveyance System | EIR approved April 13, 2017 |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|------------------------------------------------|------------|---------------------------------------------|-------------------------|--------------------------------|----------------------------------|------------------------------------------------|--------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 6014 | Influent Connector Pipe | 2015 | | | | IS Required; CEQA Required | Included in EIR for Conveyance System | EIR approved April 13, 2017 |
| 7004 | MPPS Repair and Replacement | 2015 | | | | IS Required; CEQA Required | Included in EIR for Conveyance System | EIR approved April 13, 2017 |
| 7005 | Redwood City Pump Station Rehabilitation | 2015 | | | | IS Required; CEQA Required | Included in EIR for Conveyance System | EIR approved April 13, 2017 |
| 7008 | Belmont Pump Station Rehabilitation | 2015 | | | | IS Required; CEQA Required | Included in EIR for Conveyance System | EIR approved April 13, 2017 |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|----------------------------------------------------|------------|---------------------------------------------|-----------------------------|--------------------------------|----------------------------------|------------------------------------------------|--------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 7009 | Pump Stations Program - General Support | 2011 | | Not a project under CEQA | 15378 | | | |
| 7010 | Pump Stations Preliminary Design and CEQA | 2011 | CE | Not a project under CEQA | 15378 | IS Required CEQA Required | | |
| 7011 | Belmont Force Main | 2015 | | | | IS Required; CEQA Required | Included in EIR for Conveyance System | EIR approved April 13, 2017 |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------------------------------------------------------------|------------|---------------------------------------------|-------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 7012 | Pump Stations Processor Upgrade & T-1 Transition for Primary Communications | 2015 | CE | Repair of Existing Facilities | 15301 | | | |
| 7013 | Pump Stations Secondary Communications | 2015 | CE | Repair of Existing Facilities | 15301 | | | |
| 8001 | Central Data Acquisition Unit PLC System Upgrade | 2008 | CE | Not a project under CEQA | 15378 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|---------------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 8003 | Disinfection Area SCADA | 2009 | CE | Not a project under CEQA | 15378 | | | |
| 8004 | Install SCADA Servers | 2008 | CE | Not a project under CEQA | 15378 | | | |
| 8007 | Primary Sedimentation Control System | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE Filed April 22, 2010 & 11/06/2013 |
| 8015 | CCT Weir Sluice Gate Operator | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-----------------------------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|---------------------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 8017 | Activated Sludge Process Automation (Aeration and Secondary Clarifiers). | 2009 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE Filed April 22, 2010 |
| 8018 | Gravity Thickener Process Automation | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE Filed April 22, 2010 & 11/06/2013 |
| 8021 | Anaerobic Digestion Process Automation | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE Filed April 22, 2010 & 11/06/2013 |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|---------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 8022 | SCADA Process Graphics on Information Management System | 2008 | CE | Not a project under CEQA | 15378 | | | |
| 8023 | SCADA/Auto Response to Plant Alarm Conditions | 2014 | CE | Not a project under CEQA | 15378 | | | |
| 8025 | No. 3 Water Control System | 2011 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-------------------------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 8026 | Septic System (Grease Receiving) Auto Controls and Level Measurement | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 8030 | Automation: Instrumentation & SCADA Program - General Support | 2011 | | Not a project under CEQA | 15378 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 8032 | Final Effluent Pumping Control System (FEP) Upgrade | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 8033 | Dechlorination Control System Upgrade | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 8034 | Tertiary Filter Feed Pump Control System Upgrade | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 8035 | Chlorination Control System Upgrade | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 8036 | Automation System Integration - SRF Funded | 2012 | CE | Not a project under CEQA | 15378 | | | |
| 8037 | Automation System Integration - Bond Funded | 2012 | CE | Not a project under CEQA | 15378 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 8045 | System Integrate: Pump Station Security into WWTP Controls | 2014 | CE | Not a project under CEQA | 15378 | | | |
| 9005 | Primary Scum Grinders | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9006 | Purchase Integrated Tool Vehicle | 2008 | CE | Not a project under CEQA | 15378 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|----------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|--------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9007 | Industrial Roll-up Doors for Warehouse | 2008 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9008 | Centrifuge Motor Drive Replacement | 2009 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9011 | Portable Trash Pump | 2009 | CE | Not a project under CEQA | 15378 | | | |
| 9012 | Digester #3 Rehabilitation and Upgrade | 2008 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE Filed April 22, 2010 |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|------------------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9013 | Waste Gas Burner Rehabilitation | 2008 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9014 | Process Tanks Concrete and Steel Protective Coatings Replacement | 2009 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9015 | Hypochlorite Dosing System Rehabilitation Automation | 2008 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|---------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9016 | High Pressure Air Piping and Instrument Air | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9017 | Plant #1 Water System Pipe Repair and Supply Upgrade | 2008 | CE | Repair of Existing Facilities | 15301 | | | |
| 9018 | Recycled Water For In-Plant Use | 2010 | CE | New Construction of Small Structures | 15303 | | | |
| 9019 | Bisulfite Injector System Improvements | 2009 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9021 | Grease Receiving Station Reliability Improvements and Odor Control | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9022 | Existing Freight Elevator Modernization | 2008 | CE | Repair of Existing Facilities | 15301 | | | |
| 9023 | Odor & Corrosion Control Master Plan | 2009 | CE | Not a project under CEQA | 15378 | | | |
| 9028 | Laboratory Building Roof Rehabilitation | 2012 | CE | Repair of Existing Facilities | 15301 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------------------------------|------------|---------------------------------------------|-----------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9029 | Solids Handling Building Control Room HVAC/Scrubber | 2009 | CE | New Construction of Small Structures | 15303 | | | |
| 9030 | Secondary Clarifier Collector Drive Rehabilitation | 2008 | CE | Repair of Existing Facilities | 15301 | | | |
| 9032 | Wireless Network Access Expansion | 2012 | CE | Not a project under CEQA | 15378 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-------------------------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|-----------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9033 | Future Plant Electrical System Panel Replacement | 2014 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed April 27, 2010 |
| 9034 | Electrical Conductor Replacement - MCC Room to Wetside/Dryside Loads | 2014 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed April 27, 2010 |
| 9035 | Effluent Pipe Access Hatch | 2010 | CE | Repair of Existing Facilities | 15301 | | | |
| 9036 | Primary Sludge Piping Rehabilitation | 2010 | CE | Repair of Existing Facilities | 15301 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9038 | Moyno Progressive Cavity Pump Replacement | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9040 | Digester #2 Cleaning | 2011 | CE | Repair of Existing Facilities | 15301 | | | |
| 9071 | Plant Gallery Floor Sealing | 2008 | CE | Repair of Existing Facilities | 15301 | | | |
| 9075 | IMS System Equipment Replacement | 2008 | CE | Not a project under CEQA | 15378 | | | |
| 9076 | Digester Mix Pump Rehabilitation | 2010 | CE | Repair of Existing Facilities | 15301 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|----------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9077 | Engine Generator #4 Complete Rebuild | 2008 | CE | Repair of Existing Facilities | 15301 | | | |
| 9078 | 10-Yr CIP Program Annual Updates | 2008 | CE | Not a project under CEQA | 15378 | | | |
| 9080 | Primary Sedimentation Tanks Collector System Maintenance | 2008 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9084 | Seismic Upgrade - DMF 42" Effluent Piping | 2013 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9094 | Thickener Overflow Line Butterfly Valve Replacement | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9095 | Digester #2 Cover Repair | 2011 | CE | Repair of Existing Facilities | 15301 | | | |
| 9096 | Plant Architectural Painting | 2009 | CE | Repair of Existing Facilities | 15301 | | | |
| 9097 | Plant Deck Re- coating | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-----------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9099 | Solids Handling Building HVAC Air Scrubber- Implementation | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9101 | Fresh Water Lagoon Cleaning | 2009 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9102 | Storm Drain System Improvements and Maintenance Wash Rack | 2009 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|---------------------------------------------------|------------------------------------------------|---------------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9103 | Landscape Impoundment Improvements | 2015 | | | | May be included w/Conveyance System CEQA | Included in EIR for Conveyance System | EIR was approved April 13, 2017 |
| 9105 | Document Management System | 2008 | SE | Feasibility and Planning Study | 15262 | | | |
| 9106 | Laboratory Information Management System (LIMS) | 2011 | CE | Not a project under CEQA | 15378 | | | |
| 9107 | CCT Concrete and Steel Protective Coating Replacement | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-----------------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9113 | Evaluation of Plant Under slab Piping | 2012 | CE | Repair of Existing Facilities | 15301 | | | |
| 9118 | SCADA Integration with Integrated Business Management System | 2009 | CE | Not a project under CEQA | 15378 | | | |
| 9119 | RAS Discharge Line 36" Butterfly Valve Replacement | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9120 | RAS Pump Suction Pipe Replacement | 2008 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9124 | Biosolids Master Plan | 2008 | SE | Feasibility and Planning Study | 15262 | | | |
| 9125 | Plant Service Road Resurfacing- Phase 1 | 2008 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9127 | PEC & PST 1 & 2 Protective Coatings | 2008/2015 | CE | Repair of Existing Facilities | 15301 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9128 | PST 3 & 4 Protective Coatings | 2015 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9130 | Capital Improvement Engineering | 2008 | CE | Not a project under CEQA | 15378 | | | |
| 9132 | Storage and Purchasing Warehouse | 2008 | CE | New Construction of Small Structures | 15303 | | | |
| 9144 | Solids Handling Program - General Support | 2008 | CE | Not a project under CEQA | 15378 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|----------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9145 | Plant Energy System Program - General Support | 2008 | CE | Not a project under CEQA | 15378 | | | |
| 9150 | Odor & Corrosion Control Program - General Support | 2011 | | Not a project under CEQA | 15378 | | | |
| 9152 | Small Capital Equipment Replacement | 2008 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9153 | High Pressure Pump Safety Cutout Switch Replacement | 2009 | CE | Repair of Existing Facilities | 15301 | | | |
| 9154 | Cogeneration Engine Upgrade or Replacement | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9155 | Natural Gas to Plant | 2009 | CE | New Construction of Small Structures | 15303 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-------------------------------------------------------|------------|---------------------------------------------|-------------------------------|--------------------------------|----------------------------|-----------------|-----------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9156 | Administration and Plant Control Building Replacement | 2008 | | | | Initial Study Required | MND | NOD filed February 12, 2010 |
| 9157 | Solids Handling Building Roof Replacement | 2011 | CE | Repair of Existing Facilities | 15301 | | | |
| 9158 | State Revolving Fund Financial Assistance | 2009 | CE | Not a project under CEQA | 15378 | | | |
| 9159 | OCIP Funding | 2009 | CE | Not a project under CEQA | 15378 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|---------------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------------|------------------------------------------------|-----------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9160 | WWTP Headworks and Screening Facility | 2015 | | | | IS Required; CEQA Required | Included in EIR for Conveyance System | EIR Approved April 13, 2017 |
| 9161 | Digester #3 Cleaning | 2009 | CE | Repair of Existing Facilities | 15301 | | | |
| 9162 | Digester Mix System Improvements | 2009 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9163 | Demolition of Abandoned Equipment in Solids Handling Building | 2010 | CE | Demolition of Existing Facilities | 15301 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|--------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9164 | Dewatering and Solids Handling Improvements - Phase I | 2014 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed March 18, 2015 |
| 9165 | Seismic Upgrade of Digester Mix Room and Boiler Room Piping | 2011 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9166 | Digestion System Enhancements | 2011 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|----------------------------------------------------------|------------|---------------------------------------------|--------------------------------|--------------------------------|----------------------------|-----------------|--------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9167 | Boiler Replacement | 2011 | CE | Repair of Existing Facilities | 15301 | | | NOE filed April 22, 2014 |
| 9175 | Security Program for New Conveyance System Pump Stations | 2011 | SE | Feasibility and Planning Study | 15262 | | | |
| 9176 | Plant Vulnerability Assessment and Security Plan | 2013 | SE | Feasibility and Planning Study | 15262 | | | |
| 9178 | Levee Repair behind Warehouse | 2013 | CE | Repair of Existing Facilities | 15301 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|----------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9179 | Pretreatment Program Sample Room | 2012 | CE | New Construction of Small Structures | 15303 | | | |
| 9180 | Maintenance Shop Reconfiguration | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9182 | Property Acquisition | 2010 | | Not a project under CEQA | 15378 | | | |
| 9183 | Screenings for FFR Influent | 2014 | CE | New Construction of Small Structures | 15303 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9184 | LOC Funding - Phase I | 2012 | CE | Not a project under CEQA | 15378 | | | |
| 9188 | DMF Underdrain Access Hatches | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9189 | DMF Feed Pumps Motors and Drives Replacement | 2013 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9191 | Cathodic Protection at Pump Stations and WWTP | 2013 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|---------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9193 | T1 and T2 Replacement | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9194 | T3 Replacement | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9195 | Wetside Power | 2012 | CE | New Construction of Small Structures | 15303 | | | |
| 9196 | Electronic O&M Manuals | 2013 | CE | Not a project under CEQA | 15378 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|---------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9197 | In-Plant Recycled Water System Expansion | 2016 | CE | New Construction of Small Structures | 15303 | | | |
| 9198 | Hot Water Piping Improvements - Phase I | 2013 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9199 | Hot Water Piping Improvements - Phase II | 2015 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-----------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9201 | Dimminutor procurement and installation | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9202 | DMF Valve Replacement | 2010 | CE | Repair of Existing Facilities | 15301 | | | |
| 9203 | Central Chillers Replacement | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9204 | MPPS Concrete Repair | 2010 | CE | Repair of Existing Facilities | 15301 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-----------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9206 | Site Waste Piping and Pump Replacement | 2012 | CE | Repair of Existing Facilities | 15301 | | | |
| 9207 | Maintenance Building Roof Replacement | 2012 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9208 | Solids Handling Building Demolition and Improvements - Phase II | 2012 | CE | Repair of Existing Facilities | 15301 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|--------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9209 | LOC Funding - Phase II | 2013 | CE | Not a project under CEQA | 15378 | | | |
| 9212 | Security Arm Gates | 2014 | CE | New Construction of Small Structures | 15303 | | | |
| 9220 | Aeration Basin Venturi Removal | 2014 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9222 | Dual Media Filters 6A and 6B | 2014 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9223 | Final Effluent Pump Replacement | 2014 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9224 | FEP Connection to Chlorine Mix Box | 2014 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | |
| 9225 | DCP2 Processor Upgrade | 2015 | CE | Not a project under CEQA | 15378 | | | |
| 9226 | DMF Platforms | 2015 | CE | New Construction of Small Structures | 15303 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|---------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|----------------------------|-----------------|-----------------------------------------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9228 | Diesel Pump Upgrade | 2015 | CE | Repair of Existing Facilities | 15301 | | | |
| 9229 | Food Waste: Receiving Station and Digester Improvements | 2015 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed March 23, 2016 |
| 9231 | BioforceTech Dryer System | 2015 | CE | Cogeneration Projects at Existing Facility | 15329 | | | NOE filed 10/01/2015 Notice of non-responsibility 11/06/2015 |
| 9232 | Long Term Strategic Recycled Water Planning | 2015 | SE | Feasibility and Planning Study | 15262 | | | |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|----------------------------------------------|------------|---------------------------------------------|------------------------------------------------------|--------------------------------|-------------------------------------|-----------------|------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9235 | Digester Gas Storage | 2016 | CE | Cogeneration Projects at Existing Facility | 15329 | | | |
| 9400 | Biological / Secondary Process Optimization | | | Replacement or Reconstruction of Existing Facilities | 15302 | Further Project Definition Required | | |
| 9801 | 12 kV Primary Switchgear Replacement | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed May 23, 2011 |
| 9802 | Motor Control Center P-1,2,3, &4 Replacement | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed May 23, 2011 |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|------------------------------------------------------------------|------------|---------------------------------------------|------------------------------------------------------------------|--------------------------------|----------------------------|-----------------|---------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9803 | Electrical System Redundancy | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed May 23, 2011 |
| 9804 | Standby Power Upgrade | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed May 23, 2011 |
| 9805 | Cogeneration System Connection to Primary Switchgear | 2010 | CE | Replacement or Reconstruction of Existing Facilities | 15302 | | | NOE filed May 23, 2011 |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-----------------------------------------------|------------|---------------------------------------------|-----------------------------------------------|--------------------------------|------------------------------------------------------------------------|------------------------------------------------|---------------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| 9806 | Wetside Redundant Power Improvements | 2016 | CE | New Construction of Small Structures | 15303 | | | |
| 9807 | 12 kV Primary Switchgear | 2017 | CE | New Construction of Small Structures | 15303 | Further evaluation may determine this project as Exempt | | |
| New | Radio Road Wetlands Restoration | | | | | CEQA required | | |
| New | San Carlos PS Demo and Odor Control | | | | | | Included in EIR for Conveyance System | EIR was Approved April 13, 2017 |

| Project No. | Project Name | Start Date | Exempt Projects | | | CEQA Documentation | | |
|-------------|-------------------------------------|------------|---------------------------------------------|-----------------------------------------------|--------------------------------|----------------------------|------------------------------------------------|---------------------------------------|
| | | | SE=Statutory CE=Categorical Exemption | Reason for Exemption | CEQA Guideline Reference | Initial Study Required? | Action Taken | Date |
| New | Energy Storage | | CE | New Construction of small Structures | 15329 | | | |
| New | Solar PV System | | CE | New Construction of small Structures | 15329 | | | |
| New | MPPS FM Junction Box at RWCPS | | CE | New Construction of small Structures | 15303 | | Included in EIR for Conveyance System | EIR was Approved April 13, 2017 |