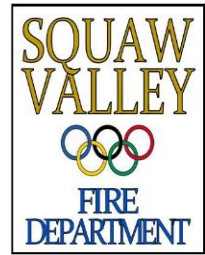




SQUAW VALLEY PUBLIC SERVICE DISTRICT



CAPITAL PROJECTS REPORT

DATE: November 17, 2015
TO: District Board Members
FROM: Jesse McGraw, Operations Manager
SUBJECT: Capital Projects Report – Information Only

BACKGROUND:

The following list provides a limited status report regarding Capital Projects for the Utility and Administration Departments. Provided are budget figures, along with commitments for pending projects and actual expenditures for completed projects.

DISCUSSION:

1. Work on the Water Operations Plan is resuming with work progressing on Chapter 9 Water System Inventory
2. Water and Sewer Master Plan Update projects are moving forward with staff providing input on projects to be included in the Capital Improvement Plan Task #2
3. The SCADA Master Plan Phase II project is over 80% complete; ASA No. 1 to install sensors upstream of the Squaw Creek and Truckee River Siphons was approved in September. Some compatibility issues with the analog meters at the production wells were discovered along with a communication issue at the West Tank. Staff is authorizing some minor additional work and will prepare ASA #2 for the December agenda.
4. Work on the Redundant Water Supply project is progressing with Farr West Engineering completing the criteria memorandum to be utilized in evaluating the best alternative pipe line alignment, source of supply, and tank location. In response to comments staff did research into potential water supplies at the landfill and within the TCPUD service area.
5. The Water System Inspections and Repairs project is being implemented with replacement of the Well 5R chemical tank in progress. Work on the well 5R building will include recoating the interior floor and new fascia and painting of the building exterior.

6. Staff is investigating landscape options to improve the overall aesthetics of District properties, a budget amendment and proposal from Hill and Dale Landscape Design was approved in September. The first improvement will be installation of a fence between the front and rear yards.
7. Staff rejected all bids and on the 1810 Roof Replacement Project and will re-bid the project next spring with detailed specifications. Staff met with a roofing representative from Malarkey Roofing Products, who supplied the roofing for the Fire Station and Admin Center to prepare bid specifications; it was discovered during inspection of the roofs of all three structures that additional repairs are needed on the sand shed roof and the ridge cap and shingles are missing from both towers on the old fire station. The roofs will be patched and repaired prior to winter; purchase orders were issued to Jeff's roofing totaling \$2,700 for the repairs.
8. Work began on the Indian Trail 2" Water Line Replacement project with a construction easement request sent to affected homeowners. Line locations were performed in October showing separation issues between the water and sewer, a survey is needed to determine the boundaries of the easement.
9. Auerbach Engineering completed the Technical Design Memorandum for the Granite Chief subdivision A-Line Replacement. Staff prepared a response outlining the preferred alternative that will result in clear access and dedication of the facilities. The HOA has requested the District participate in funding the project. Staff is working with the HOA to formulate a plan to complete the project under District supervision. A request for easements was sent to homeowners affected by the proposed project. The HOA is negotiating to secure an easement from one of the owners.
10. With winter approaching staff is looking into options for the HVAC control system. The control system computer is 11 years old and running on outdated software. Efforts to program a 7 year old computer as a "hot backup" failed. Staff met with representatives from Carrier and viewed a new software release that works similar to XIO with no monthly fees. The software is accessed over internet and is a step better than XIO in that the existing PLC's still perform the control function; basically it is access and program by internet with local control where XIO is access and control over internet. This option will eliminate the need for a new PC and will operate over the existing network by modem saving over \$15,000. Monthly fees for internet service may be required. A proposal should be available for approval in December.

ATTACHMENTS:

2015-2016 Capital Budget Project Status Worksheet

DATE PREPARED:

November 9, 2015

**2015-2016 BUDGET CAPITAL PROJECTS STATUS
UTILITY DEPARTMENT
November 2015**

PROJECT NAME BUDGETED COMMITTED STATUS

1	Water Operations Plan	\$	\$	Work restarted the week of October 12 th with Chapter 9- Inventory
2	Water Master Plan Update	\$ 85,000	\$ 83,900	Task 2-Capital Improvement Plan
3	Groundwater Management Plan	\$ 35,000	\$	5 year report pending proposal
4	Intersection Manhole A29	\$ 10,000	\$	On Hold
5	Sewer Master Plan Update	\$ 75,000	\$ 75,300	Task 2-Capital Improvement Plan
6	Capital Replacement Rate Analysis	\$ 25,000	\$	On Hold
7	Easement Abatement	\$ 10,000	\$	In Work Time Permitting
8	VueWorks (Water & Sewer)	\$ 30,000	\$	On Hold
9	TV Inspection 25% & Laterals	\$ 55,000	\$	On Hold
10	2" Water Main Indian Trail	\$ 50,000	\$	Pending Survey
11	SCADA Upgrade (Water & Sewer)	\$ 70,650	\$ 70,650	ASA No. 1 Approved
12	Water System Inspection/ Repairs	\$ 40,000	\$ 15,000	Well 5R Chem. Tank in Work
13	Roof Repair 1810	\$ 40,000	\$ 3,000	Roof Repairs Pending Schedule
14	Ford Explorer (Replace 1997)	\$ 30,000	\$	Purchase Approved
15	Medium/ Large Field Equipment	\$ 10,000	\$	Asphalt Tamper Purchase Pending
16	Phone System Repairs	\$ 10,000	\$	On Hold
17	HVAC System Repairs	\$ 20,000	\$	Researching Options
18	2016 Landscape and Facilities Maintenance	\$ 25,000	\$	Fence in Work
	Grant Funded Projects			
19	Redundant Water Supply CO	\$ 175,000	\$ 175,000	Phase III Work in Progress
20	Redundant Water Supply	\$ 160,000	\$	Grant Matching Funds CEQA
21	Mutual Intertie	\$ 20,000	\$	Grant Match Funds
22	Aquifer Monitoring Program	\$ 12,760	\$	Grant Match Funds
	TOTALS	\$ 1,048,929	\$ 422,850	

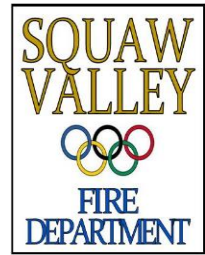
**2015-2016 COMPLETED PROJECTS
UTILITY DEPARTMENT**

PROJECT NAME BUDGETED EXPENDED STATUS

1	Painting Stucco Repairs 1810	\$ 10,000	\$ 10,514	Painting complete
2				
3				
4				
5				
6				
	TOTALS	\$ 10,000	\$ 10,514	



SQUAW VALLEY PUBLIC SERVICE DISTRICT



OPERATIONS & MAINTENANCE REPORT

DATE: November 16, 2015
TO: District Board Members
FROM: Brandon Burks, Operations Specialist III
SUBJECT: Operations & Maintenance Report for October 2015 – Information Only

BACKGROUND: The discussion section below provides information on the District’s operations from the month noted above. It also includes the maintenance activities performed by the Operations Department that are not the subject of a separate report. This report is formatted to provide new information and recent progress only.

DISCUSSION:

1. Flow Report –October 2015

a. Water Production:	6.70	MG	
Comparison:	1.12	MG less than 2014	
b. Sewer Collection:	3.86	MG	
Comparison:	0.27	MG less than 2014	
c. Aquifer Level:	October 31, 2015	= 6,183.1'	
	October 31, 2014	= 6,181.2'	
	Highest Recorded	= 6,192.0'	
	Lowest Recorded	= 6,174.0'	
d. Creek Bed Elevation:	Well 2	= 6,186.9'	
e. Precipitation:	October 2015	= 2.24"	
	Season to date total	= 2.24"	
	51 Yr. Season to date Avg., Old Fire Station	= 2.96"	
	Season Total to date of 51 Year to date average	= 75.60%	

Flow Report Notes:

- The *Highest Recorded Aquifer Level* represents a rough average of the highest

levels measured in the aquifer during spring melt period.

- The *Lowest Recorded Aquifer Level* is the lowest level recorded in the aquifer at 6,174.0 feet above mean sea level on October 5, 2001. This level is not necessarily indicative of the total capacity of the aquifer.
- The *Creek Bed Elevation* (per Kenneth Loy, West Yost Associates) near Well 2 is 6,186.9 feet.
- *Precipitation Season Total* is calculated from October 2015 through September 2016.
- The true *Season Total of 52 Year Average* could be higher or lower than the reported value due to the uncertainty of the Old Fire Station precipitation measurement during the period 1994 to 2004.
- In October 2011 the data acquisition point for the aquifer was changed from Well 2 to Well 2R.

2. Leaks and Repairs

a. Water

1. The District issued six leak/high usage notifications.
2. Responded to one after-hours customer service call.

b. Sewer

1. Responded to zero after-hours customer service calls.

3. Vehicles and Equipment

a. Vehicles

1. Cleaned vehicles and checked inventory.

b. Equipment

1. None.

4. Operations and Maintenance Projects

a. 1810 Squaw Valley Road (Old Fire Station).

1. Inspected and tested the generator.
2. General housekeeping.

b. 305 Squaw Valley Road (Administration and Fire Station Building)

1. Inspected and tested the generator.

c. Water System Maintenance

1. Two bacteriological tests taken: one at 410 Forest Glen Road and one at Resort at Squaw Creek; both samples were reported absent.
2. Leak detection services performed: three
3. Customer service turn water service on: zero
4. Customer service turn water service off: zero
5. Responded to zero customer service call with no water.
6. Replaced zero failed water meters.

- d. Operation and Maintenance Squaw Valley Mutual Water Company
 - 1. Assist with abandonment project.
 - 2. Work through communication issues with XIO system.
- e. Sewer System Maintenance
 - 1. Check for I and I issues.
- f. Telemetry
 - 1. The rainfall measurements for the month of October were as follows: Nova Lynx 2.24", Carl Gustafson: 1.41", Squaw Valley Snotel: 3.90".
 - 2. Assist on SCADA upgrade.
- g. Administration
 - 1. Monthly California State Water Boards report.
 - 2. Worked on implementation of VUE Works

5. Services Rendered

- a. Underground Service Alerts (16)
- b. Pre-remodel inspections (2)
- c. Final inspections (0)
- d. Fixture count inspections (0)
- e. Water service line inspections (2)
- f. Sewer service line inspections (2)
- g. Sewer main line inspections (0)
- h. Water quality complaint investigation (0)
- i. Water Backflow Inspections (0)
- j. FOG inspections (0)

Other Items of Interest

- K. Training – SDRMA Online class, SDRMA Safety Booklet.

6. Drought Preparedness

Squaw Valley received 2.24 inches of precipitation for the month of October. The aquifer level rose to 6,183.1 feet ASL on October 31, 2015. The aquifer is 1.9 feet higher than last year at this time.

The District staff continues to monitor the aquifer and precipitation levels and will continue to advise the Board of changes in conditions that may warrant action. Staff continues to meet to discuss current drought conditions.

ATTACHMENTS: Monthly Water Audit Report

DATE PREPARED: November 5, 2015

Squaw Valley Public Service District - Monthly Water Audit Report

Audit Month: October Report Date: November 5, 2015 Performed By: Brandon Burks
 Year: 2015
 Meter Reader: Schel Roland Reading begin Date & Time: 10/30/15 9:00 AM
 Reading end Date & Time: 10/30/15 12:00 PM
 Total lag time: 3:00:00

 Begin Audit Period: 9/30/15 12:00 AM
 End Audit Period: 10/30/15 12:00 AM

Total Metered Consumption for audit period specified (including hydrant meters): 5,630,614

Additional Consumption - Unmetered

Fire Department Use:	<u>10,000</u>
Hydrant Flushing:	<u>20,000</u>
Blow-Off Flushing:	<u>3,500</u>
Sewer Cleaning:	<u>2,000</u>
Street Cleaning:	<u> </u>
Well Flushing:	<u>50,000</u>
Tank Overflows:	<u> </u>
Unread Meter Estimated Reads:	<u> </u>
Other:	<u> </u>
Total Unmetered Consumption (for audit period specified):	<u>85,500</u>

Estimated Unknown Loss - Unmetered

Known Theft:	<u> </u>
Known Illegal Connections:	<u> </u>
Total Estimated leaks that have been repaired:	<u> </u>
Total Estimated Unmetered (for audit period specified):	<u> </u>

Total Production for audit period specified: 6,714,288

Total Metered/Unmetered Consumption for audit period specified: 5,716,114

Total Water Loss (Production - Consumption): 998,174

Comments: The production totals are different than the monthly report due to a different time frame being used. The District continues to investigate leaks. Water loss has been reduced from a high of 2.33 million gallons in July to under 1 million gallons this month.

* Note - All Production & Consumption Totals In U.S. Gallons *