

Agenda

Sacramento Suburban Water District Facilities and Operations Committee

3701 Marconi Avenue, Suite 100
Sacramento, CA 95821

Wednesday, October 4, 2017
4:00 p.m.

Public documents relating to any open session item listed on this agenda that are distributed to the Committee members less than 72 hours before the meeting are available for public inspection in the customer service area of the District's Administrative Office at the address listed above.

The public may address the Committee concerning any item of interest. Persons who wish to comment on either agenda or non-agenda items should fill out a Comment Card and give it to the General Manager. The Committee Chair will call for comments at the appropriate time. Comments will be subject to reasonable time limits (3 minutes).

In compliance with the Americans with Disabilities Act, if you have a disability, and you need a disability-related modification or accommodation to participate in this meeting, then please contact Sacramento Suburban Water District Human Resources at (916)679-3972. Requests must be made as early as possible and at least one-full business day before the start of the meeting.

Call to Order

Roll Call

Public Comment

This is an opportunity for the public to comment on non-agenda items within the subject matter jurisdiction of the Committee. Comments are limited to 3 minutes.

Consent Items

The committee will be asked to approve all Consent Items at one time without discussion. Consent Items are expected to be routine and non-controversial. If any member of the Committee, staff or interested person requests that an item be removed from the Consent Items, it will be considered with the action items.

1. Minutes of the July 27, 2017 Facilities and Operations Committee Meeting
Recommendation: Approve subject minutes.

Items for Discussion and Action

2. Regional Partnership – Groundwater Banking
Receive written staff report and direct staff as appropriate.

3. Amending Regulations Nos. 1, 7 and 9 of the Regulations Governing Water Service
Receive written staff report and direct staff as appropriate.
4. Palm Well Site Issue Update
Receive written staff report and direct staff as appropriate.
5. City of Sacramento Agreement and Wholesale Water Rates
Receive written staff report and direct staff as appropriate.

Adjournment

Upcoming Meetings:

- Monday, October 9, 2017 at 6:00 p.m., Special Board Workshop
- Monday, October 16, 2017 at 3:00 p.m., Water Quality Committee Meeting
- Monday, October 16, 2017 at 6:30 p.m., Regular Board Meeting

I certify that the foregoing agenda for the October 4, 2017, meeting of the Sacramento Suburban Water District Facilities and Operations Committee was posted by September 27, 2017 in a publicly-accessible location at the Sacramento Suburban Water District office, 3701 Marconi Avenue, Suite 100, Sacramento, California, and was made available to the public during normal business hours.

Robert S. Roscoe
General Manager/Secretary
Sacramento Suburban Water District

Minutes

Sacramento Suburban Water District
Facilities and Operations Committee
Thursday, July 27, 2017

Call to Order

Director Schild called the meeting to order at 4:00 p.m.

Roll Call

Directors Present: Neil Schild and Dave Jones.

Directors Absent: None.

Staff Present: General Manager Rob Roscoe, Assistant General Manager Dan York, Amy Bullock, John Valdes, Dana Dean, Mitchell McCarthy, David Espinosa and Jim Arenz.

Public Present: William Eubanks and Mitch Dion.

Public Comment

None.

Announcements

None.

Consent Items

1. Minutes of the April 27, 2017 Facilities and Operations Committee Meeting

Director Schild moved to approve Item 1; Director Jones seconded. The motion passed by unanimous vote.

AYES:	Schild and Jones.	ABSTAINED:	
NOES:		RECUSED:	
ABSENT:			

Items for Discussion and Action

2. Participation in In-Conduit Hydro Pilot Project with InPipe Energy and SMUD

John Valdes (Mr. Valdes) presented the staff report.

Chair Schild inquired if staff were to put this at Antelope, would the pressure reduction still be at Verner and will it reduce flow and efficiency.

Mr. Valdes stated that staff is only looking at Antelope right now and it would not affect flows.

Director Jones inquired what the requirements would be for maintenance and if there would be an easement.

Mr. Valdes stated that In-Pipe would maintain it and at sometime in the future the District would have the opportunity to purchase it, but then the maintenance would be the District's responsibility once the District owns it. In regards to the easement the District would just have to provide access and does not believe there is an easement issue.

Director Jones inquired where this would be installed and would it affect operations.

Mr. Valdes stated that it would be installed inside the PRV building and that it would not affect our operations.

Chair Schild stated that it seems that this is not very far along and that this is for information only.

Director Jones inquired how much money In-Pipe would get back on this and how are they making money on this.

Mr. Valdes stated that it's an 80/20 deal. 80% to In-Pipe, 20% to the District. In-Pipe has worked through the numbers and they believe it will pay for itself maybe even sooner than their projections.

Public comment from William Eubanks (Mr. Eubanks) stated that it does not make any sense why the District would entertain this idea. For \$9,000.00 a year it does not seem like a good idea to have a private company come in and install their equipment in the District's system and guarantee there will not be any disruptions to the District. The payback on this doesn't seem right.

Assistant General Manager Dan York (AGM York) inquired if staff should bring this item back to the committee at the next Facilities and Operations Committee meeting.

Director Jones stated to only bring this agenda item back to the committee if staff has more information or concrete evidence to make a decision.

Chair Schild agreed with Director Jones recommendation.

3. Meter Replacement Program – Request for Proposal

AGM York presented the staff report.

Director Jones inquired that he sees some flaws in it because other districts use different meters and can see complications when negotiating with five different vendors, but can also see some advantages to working together to get the prices down.

AGM York stated that there could also be the same issues relating to the meter reading technology.

Director Jones inquired what would happen on a warranty issue.

AGM York stated that warranty issues are discussion items that staff still need to work out.

AGM York mentioned that at this point only the District, Citrus Heights Water District, Orangevale Water Company and San Juan Water District are participating in the initial discussions.

Chair Schild stated that the Committee is not putting any effort into this and that he understood that this agenda item was an informational item.

4. Fleet Asset Management Plan

AGM York presented the staff report.

Director Jones stated that the workhorses of the fleet, the vehicle that are used every day should be kept in top shape, but believes the water conservation department could use vehicles that are 10-12 years old.

Chair Schild stated that some of the vehicles that are used 5 to 6 thousand miles or less a year should be vehicles that should be taken out of service and sold.

AGM York stated staff is looking at vehicles that are being under utilized, only based on mileage, to determine if they can be sold and purchase a pool vehicle as a replacement vehicle.

Chair Schild stated that he thinks the vehicle point system that is in place is working well and does not need to be amended.

Director Jones stated that there are only three vehicles in the fleet that run a two man crew.

Public comment from Mr. Eubanks. Mr. Eubanks stated the newer vehicles these days have lower maintenance needs and stated the District has enough vehicles verses staff.

AGM York stated that the county and most other districts go by 6 years or 80,000 miles. The District is the only utility company in the area that goes by the vehicle point system. The reason the District is still on the point system is because they get a little more out of the vehicles on the point system than the 6 year/80,000 mile program. However, AGM York stated that the current utilization of the point system has the District behind the replacement schedule as a large number of vehicles are over 15 years old.

AGM York stated that this is an informational item to the committee that will go to the full Board as an informational item.

Chair Schild stated that he does not think this should go to the full Board.

AGM York stated that staff will proceed with identifying which vehicles to replace for the upcoming budget process.

5. Well Operation & Efficiency Testing

Jim Arenz (Mr. Arenz) presented the staff report.

Chair Schild stated that staff needs to find out why these wells are not producing and if there is a good reason why the wells are not producing then consider doing an assessment on if the well or wells should be abandoned or rehabilitated.

Director Jones inquired if we are still using the District's groundwater well asset management plan.

Mr. Arenz stated that staff is doing its best to follow the groundwater well asset management plan.

AGM York informed the committee that this was an information item and no follow-up is necessary.

6. Update on Aquifer Storage and Recovery

Mr. Valdes presented the staff report.

Chair Schild stated that staff should refer to this as in-lieu of recharge program, there is no aquifer storage program.

Chair Schild inquired if we have any records of the City of Roseville's operation.

AGM York stated that he does not think that the City of Roseville is using the aquifer storage recovery (ASR) program right now.

Mr. Valdes stated that he believes Rio Linda Elverta Community Water District is the only other District looking into the ASR program right now.

Director Jones inquired if you can put chlorinated water back in the groundwater basin.

Mr. Valdes stated you can not put chlorinated water back in the groundwater basin.

General Manager Rob Roscoe (GM Roscoe) stated there are a number of valley towns pursuing the ASR program, City of Woodland, City of Tracy and the City of Stockton. The District has not pursued the ASR program because they haven't needed to and the District does a lot of in-lieu banking.

GM Roscoe and AGM York informed the committee that this was an informational item.

7. Alternative Work Week Schedule

AGM York presented the staff report.

Director Jones stated that he would like to see a more detailed presentation on how this affects and accommodates staff and the customers.

Chair Schild stated that later hours would probably benefit the customers who are coming in the late afternoon after they get off work to pay their bill.

Public comment from Mr. Eubank. Mr. Eubanks stated that he believes the District is running 20 years behind the times. He believes that the District should accommodate flexible hours and certain personal accommodations.

Mr. Roscoe stated that he agrees with Mr. Eubanks and believes it will help on employment retention.

Mr. Eubanks stated that he believes staff and management is slow in filling budget approved and needed positions. The approach to recruiting new employees outside of the industry is lacking plus with the retirement system reverting back to 2% at 62 with new employees having to pay the 7% fee is not an attractive retirement benefit. He finds the salary survey that the District conducts is ridiculous given that the District has always targeted the middle salary range. He believes the District should target the higher range salary to help with attracting and retaining any new hires. Employees are leaving the District and going to work for other utility companies for substantially higher pay. He

does not see staff or the Board doing anything to address this issue and would like to see the District come into the 21st century.

Adjournment

Director Schild adjourned the meeting at 4:53 p.m.

Robert S. Roscoe
General Manager/Secretary
Sacramento Suburban Water District

DRAFT



Facilities and Operations Committee

Agenda Item: 2

Date: September 27, 2017

Subject: Regional Partnership – Groundwater Banking

Staff Contact: Dan York, Assistant General Manager

Recommended Committee Action:

Receive report and direct staff as appropriate.

Discussion:

EL Dorado County Water Agency (EDCWA) has applied to the State Water Resource Control Board (SWRCB) for a 40,000 acre foot assignment of County of Origin water rights having a 1927 priority date, to meet El Dorado County build-out demands. EDCWA would like to use the water on an interim basis to benefit the region. One of the elements of that effort is a regional partnership between EDWPA, the City of Folsom (Folsom) and Rio Linda Elverta Community Water District (RLECWD).

The partnership is looking to find mutual benefit by:

- Helping Folsom meet their dry year requirements in the Water Forum
- Initially addressing water quality issues for RLECWD (Cr 6)
- Looking for an opportunity to bank EDCWA water in the groundwater basin, and develop long-term water marketing opportunities downstream.

The partnership is in the process of developing an Aquifer Storage and Recovery Program (ASR) in RLECWD's service area boundary. Elements of the program include using the most recently constructed well that is near the District's intertie with RLECWD for injection. A capacity test conducted during the week of September 18, 2017 confirmed the intertie delivery capacity to be 1,500 gallons per minute (gpm). The well was back flushed during the same time and could accept an injection rate of 1,500 gpm.

The partnership has been evaluating various elements of the program. EDCWA has hired CDM Consulting to evaluate the various studies conducted to date, as well as suggest a wheeling and treatment cost per AF to utilize unused conveyance and treatment capacity during off-peak times. This analysis is still being completed. Very preliminary discussions have been initiated to identify key terms for a potential draft agreement for wheeling and treatment with SSWD. The District conducted a Wholesale Wheeling and Conjunctive Use Water Rate study in February

2014. Therefore, when the CDM report is completed, a comparison of the two studies will need to be thoroughly evaluated.

The partnership has modeled the impact of storing water under a couple of different injection scenarios, with the intent of identifying any unanticipated impacts preparatory to applying for an ASR “General Permit” for the program. Nearly complete is a draft environmental document and permit application required for submission to the Regional Water Quality Control Board for review and processing.

Below is a tentative schedule moving forward:

- Initial testing of the intertie has been completed.
- The CDM study should be completed by October/November 2017.
- The draft environmental document and permit application will most-likely be processed in November 2017.

If the F&O Committee agrees with the concept and would like to continue the efforts, there are other components of this effort that need to be completed:

- Consideration of Agreements between SSWD and RLECWD and/or other participants, including a Cost Sharing Agreement
- Long-term Memorandum of Understanding that outlines benefits and contributions for the partners involved

These activities may open other opportunities for the District to begin groundwater storage in its service area with other agencies.

Fiscal Impact:

The fiscal impact is unknown at this time. There are opportunities to benefit monetarily through wheeling charges for use of presently unused capacity in SSWD transmission infrastructure.

Strategic Plan Alignment:

Water Supply – 1.B. Provide for the long-term future needs of the District through prudent planning that will ensure sufficient capacity to serve all customers.

Water Supply – 1.D. Manage the District’s water supplies to ensure their quality and quantity.

If the regional partnership is implemented, the District will benefit monetarily through wheeling charges and also conjunctive use and groundwater storage opportunities, which is a benefit to District customers.



Facilities and Operations Committee

Agenda Item: 3

Date: September 25, 2017

Subject: Amending Regulations Nos. 1, 7 and 9 of the Regulations Governing Water Service

Staff Contact: David Espinoza, Senior Engineer

Recommended Committee Action:

Receive report on recommended changes to Regulation Nos. 1, 7 and 9 of the District’s Regulations Governing Water Service and provide input as appropriate. Direct staff to present the final draft to the full Board for review, together with a Committee recommendation on acceptance at the October 16, 2017 regular Board meeting.

Discussion:

The Regulations Governing Water Service is a District Ordinance that provides direction for governance of the business related functions necessary to operate the various processes performed to serve water to customers. Each year, staff reviews the Ordinance and recommends changes for Board review and approval. The annual changes typically reflect updated information, clarity edits, updates to fees and rates, and incorporation of policy changes enacted by the Board.

This Item was previously brought before the Board at the August 21, 2017 regular Board meeting. The Board moved to defer the Item and bring it back for discussion at the September regular Board meeting. However, as staff typically presents the amended recommendations to the Facilities and Operations Committee prior to presenting to the full Board for approval, staff decided to defer this Item to October 2017 so it can be first presented to the Facilities and Operations Committee.

The changes being proposed are to provide clarity and avoid conflict by removing design standards identified in the Regulations, which are already described in the District’s Improvement Standards and Technical Specifications. As stipulated in the District’s Policy PL – Eng 001, the Improvement Standards and Technical Specifications (“Standards”) is the appropriate document to set minimum acceptable quality of design and construction of water infrastructure improvements. The California Water Code under Section 30580(a) authorizes the General Manager to have “full charge and control of the maintenance, operation, and construction of the water works or water-works system of the District.” In an effort to eliminate any conflict or discrepancy between the District Regulations and the Standards, the amendment of Regulations 1, 7, and 9 is being proposed.

The Ordinance was adopted on April 18, 2004. A redline/strikeout version of the proposed amendments are included with this report as Exhibit 1. To save paper, a clean version is available upon request.

The following provides a summary of the edits to these Regulations:

Regulation 1 is amended to delete language referencing Regulation 9, Section N and O, and instead reference District Standards Section D as follows:

- 1. Adequate and Reserve Capacity – Reference to the proposed deleted section of the Regulations was removed and replaced with reference to the District Standards.
- 28. Final Approval – Substituted the definition of District Standards.
- 52. District Standards – Replaced title with “District Standards” for consistency within the document and alleviate any ambiguity and confusion. As a result of renaming this definition, District Standards is now Article 22.

Regulation 7 is amended as follows:

- Article B – Section 2(d) – Plans and Specifications was replaced with District Standards.
- Article C – Section 2(b) – An update to the fire code reference.
- Article E – Section 1 was modified to omit Regulation 9 Sections N & O for the updated District Standards and Section D, Design Standards. Similar changes were made to Sections 2(a – 1) and 2(b – 1).
- Article E – Various sections were amended to include District Standards and Section D, Design Standards in place of Regulation 9 Sections N & O.
- Article G – Revised to include District Standards for resubmitted plan reviews.
- Article H – Section 5(a – 5) was revised to include Standards.
- Article H – Section 11 has been brought up-to-date by removing inaccurate verbiage.
- Article M – Updates were made to reflect changes made in Regulation 1.

Regulation 9 is amended as follows:

- Article A – Includes changes made to replace Sections N & O with District Standards D, this change was also made on Article A – Section 1.
- Article N – Deleted as content is included in the District’s Improvement Standards and Technical Specifications.
- Article O – Deleted as content is included in the District’s Improvement Standards and Technical Specifications.

Fiscal Impact:

Negligible or no fiscal impact is expected as a result of these Regulation changes.

Strategic Plan Alignment:

Water Supply – 1.B. Provide for the long-term water supply needs of the customers through prudent planning that will ensure capacity to serve system demands.

Water Supply – 1.D. Manage the District’s water supplies to ensure their quality and quantity.

Approval of the amendments to the Regulations Governing Water Service will improve staff’s ability to operate efficiently and allow District customers to better understand the regulations upon which staff bases decisions while implementing Board policy.

EXHIBIT 1

Regulation No. 1 Definitions

Adopted: July 19, 2004

Amended: November 17, 2008; December 21, 2009; June 15, 2015; October 16, 2017

1. Adequate and Reserve Capacity

The amount of capacity in District water mains sufficient to supply potable and all other types of water service to an Applicant's Parcel in accordance with the velocity and pipe size specifications set forth in ~~Regulation 9, Sections N and O~~ the District Standards, Section D.

2. Administration Cost

A charge that is assessed to accounts to pay certain costs of providing special District services, for example large landscape irrigation agreements, wholesale water contracts, and duplicate billing to tenants.

3. Agent

A person or company designated by the Landowner to manage a property or to act on behalf of a Customer.

4. Applicant

A person or entity, including a developer of a subdivision or any individual Parcel, that files an application for services with the District.

5. Application for Water Service

A formal, written application requesting water service from Sacramento Suburban Water District to a specific Premises, in a form provided by the District, together with such plans, specifications, and payment of all fees that the District's then-applicable Regulations shall require.

6. Auxiliary Water Supply

Any water supply on or available to a Premises other than water supplied by the District.

7. AWWA

American Water Works Association, a national nonprofit association that provides scientific and educational assistance to public and private water purveyors for managing and operating water resources and facilities.

8. Backflow

The reverse flow of water or any other fluid or substance or any combination or mixture thereof from a Customer's System into the District's water system caused by Cross-Connection with Auxiliary Water Supplies or with sources of possible contaminated water.

9. Backflow Prevention Assembly

Equipment used to protect the District's water system against actual or potential Backflow. All Backflow Prevention Assemblies installed within the District shall comply with state and local laws and regulations, including District regulations.

10. Certified Tester

A person who is certified as a Backflow Prevention Assembly General Tester by Sacramento County or other agency having jurisdictional authority.

11. Check Valve Assembly

A mechanical device installed on either a main line or service line to restrict the flow of water in one direction only.

12. Contract

A written agreement between the District and a second party that defines and creates one or more obligations to take or to refrain from taking a certain action or actions.

13. Control Valve

A device used to control or shut off the flow of water, including to a Service Connection.

14. Cross-Connection

Any connection or link between District's water distribution system and an Auxiliary Water Supply, piping system, plumbing fixture, appliance, container, receptacle, vessel or

other device of any nature that may permit contaminated or used water or other fluid of questionable or unsafe quality, or any other substance of any nature other than the potable water supplied by District, to enter any part of the District's water distribution system.

15. Cross-Connection Control Representative

A Certified Tester or Cross-Connection Control Specialist authorized by the District to administer the Cross-Connection Control and Backflow Program.

16. Curb Stop

A District Control Valve located in a water service pipe near the curb and between the water main and building. This valve is usually located in the main side of the service meter box and is operated with a valve key or wrench to stop and start flows in the water service line to the building. Lockable Curb stops are also used to lock out a water Service Connection at the Point of Responsibility.

17. Customer

Any Landowner, Tenant or other water user who is entitled to service from or who pays a water bill to the District.

18. Customer's System

Non-Responsible Facilities located and attached to the outlet side of the Point of Responsibility.

19. Developer

Developer and Owner shall mean one and the same.

20. District

The Sacramento Suburban Water District.

21. District Board of Directors

The governing body of the District composed of five Directors elected by divisions of voters residing within the District's boundaries.

22. District Standards

The District's specific requirements for water service plumbing, facilities, and equipment provided in the document entitled District's Improvement Standards and Technical

Specifications and all subsequent amendments or replacements to any such requirements or documents.

| 223. District Water System

The water transmission and distribution system owned and operated by the District, including all piping, fittings, valves and other equipment used to supply water to Customers up to and including the Point of Responsibility.

| 234. Existing Non-Metered Water Service

Services installed on single-family residences prior to April 2, 1991 that do not include a Meter and which are billed on a flat rate, also known as “flat rate service.”

| 245. Extension Facilities

New pipelines and related water service facilities of whatever type installed for the purpose of improving existing District water service and/or extending it to unserved or annexed areas.

| 256. Facilities Development Charge

A charge imposed by the District to cover a portion of the District’s costs incurred for installing wells, pumps, and treatment, storage and transmission facilities to serve increased demand for water service within the District.

| 267. Facilities Development Fund

Eighty percent of the fees received from Facilities Development Charges are placed in this fund to offset District costs for infrastructure necessary to meet requirements of the District Master Plan or to serve new development.

| 278. Facilities Reimbursement Fund

Twenty percent of the fees received from Facilities Development Charges are placed in the fund to reimburse Applicants that upsize Extension Facilities as required by the District to meet planning requirements for future development and redevelopment as related to Master Plan requirements.

| 289. Final Approval

The District’s written certification that installed water facilities are in compliance with all regulations, ~~plans and specifications~~ District Standards, that all plans and supporting documents have been delivered to the District as its property, that all documents have been approved by the District, and that all required fees have been paid, as evidenced by

a District form dated and signed by the District General Manager or his/her designated representative.

| ~~302~~9. Furnish Only Materials

Meters and related materials supplied by the District and required to be installed by an Applicant at its cost, which are supplied to an Applicant upon payment of furnish-only fees established by the District.

| ~~30~~1. Inactive Account

An account applicable to a Parcel with an existing service connection to which the District is not currently supplying water service and for which water service bill is not being rendered.

| ~~34~~2. ISO (Insurance Services Office) Fire Suppression Standards

Fire demand pipe size requirements specified by the fire suppression rating schedule published by the ISO, Edition 6.80, or most current edition.

| ~~32~~3. Local Agency Formation Commission (LAFCO)

A statutory, quasi-judicial, countywide commission responsible for approving boundary changes for, and the consolidation or reorganization of, local public agencies, including the District.

| ~~33~~4. Landowner

A person who possesses a fee interest in a Parcel located within the District's boundaries.

| ~~34~~5. Meter

A device capable of measuring the quantity of water delivered by the District to a Service Connection.

| ~~35~~6. Metered Rates

Water service fees and charges that are calculated from monthly consumption measured by a Meter attached to a Service Connection serving any Water User within the District.

| ~~36~~7. Meter Setters

A prefabricated copper device constructed to house a water Meter with valves on the inlet and outlet side of the device.

| 378. New Service

A Service Connection provided to a Parcel not previously served by the District or a reactivation of an inactive Service Connection.

| 389. Non-Residential Parcel

A. Any commercial, industrial, institutional and/or multi-family parcel based on the land use code obtained from Sacramento County.

B. For rate purposes Multi-family parcels are defined as:

1. An improved Parcel containing five or more residences each containing a family unit or group.

| 394. Non-Responsible Facilities

Water service facilities that the District does not own and for which it is not responsible to install, operate, use, repair, maintain or replace. Non-Responsible Facilities include all privately owned and maintained Service Connections located on any Parcel beyond the Point of Responsibility.

| 401. Parcel

Any piece of real property within the District defined on a parcel or subdivision map or designated by any other legal means, and to which the Sacramento County Assessor has or will assign an assessor's parcel number.

| 412. Plan approval

The District's services related to approval of an Applicant's final plans for an improved Parcel, as evidenced by the date and signature of an authorized District representative on the final plans.

| 423. Point of Responsibility

- a. Metered Service: The connection point of the Customer's System at the outlet side of the Meter Setter where a Landowner's responsibility for all conditions, maintenance, repairs, use and replacement of water service facilities begins, and the District's responsibility ends.
- b. Non-Metered Service: The connection point of the Customer's System at the outlet side of either a Curb Stop or an unmetered Meter Setter where a

Landowner's responsibility for all conditions, maintenance, repairs, use and replacement of water service facilities begins, and the District's responsibility ends.

- c. Private Fire Service: The connection point at the District's main shut-off valve connecting the District's water main and the inlet side of the Private Fire Service facilities where a Landowner's responsibility for all conditions, maintenance, repairs, use and replacement of water service facilities begins, and the District's responsibility ends.

| 434. Point of Service

- a. Private Fire Hydrants: The District's Point of Service begins at the District's main shut-off valve located at the District's supply water main.
- b. Private System: The District's Point of Service begins at the District's main shut-off valve located at the District's supply water main.

| 445. Premises

A residential or non-residential Parcel together with all buildings, facilities, equipment, and other fixtures and personal property located thereon.

| 456. Principal Boundary

All boundaries of an Applicant's Parcel that abut one or more public rights-of-way.

| 467. Private System

Non-Responsible Facilities utilized by a Landowner solely for private use on a Parcel. Private use can be, but is not limited to, fire suppression in the form of fire sprinklers or fire hydrants. Private systems shall be separated from a public system by an approved backflow prevention assembly.

| 478. Residential Flat Rate

Non-Metered water service fees and charges that are calculated according to estimated water consumption, size of service line and the size of the Parcel per the Sacramento County Tax Assessor's parcel maps.

| 489. Residential Parcel

An improved Parcel containing a single family residence, or an improved Parcel containing up to four residences each containing a family unit or group. A duplex, triplex, or fourplex shall be considered Residential Parcels.

| 4950. Service Connection

The water piping system connecting a Customer's System with a District water main beginning at the outlet side of the Point of Responsibility, including all plumbing and equipment located on a Parcel downstream of the Meter outlet, Curb Stop or Meter Setter required for the District's provision of water service to that Parcel.

| 510. Service Valve

The equipment located at the inlet side of the Point of Responsibility by which the District controls water service to a Parcel.

| 512. Single Family Parcel

An improved Parcel used as a place of residence by one family unit or group.

~~52. Standard Specifications and Plans~~

~~The District's specific requirements for water service plumbing, facilities, and equipment provided in the document entitled District's Improvement Standards and Specifications approved by the Board of Directors and all subsequent amendments or replacements to any such requirements or documents.~~

53. Surcharge

A limited-term, specific purpose charge assessed to all or to a class of Customers to repay certain costs incurred by the District, such as bond indebtedness issued to finance District capital projects.

54. Tenant

A person or entity leasing or renting a Parcel or Premises from a Landowner.

55. Up-Sized Line

Mainline facilities having capacity in excess of that necessary to supply existing water demand to a specific area or Parcel with an Adequate and Reserve Capacity of water, but

which is deemed necessary by the District to provide an adequate future water supply to the area or Parcel. The District will bear the cost of an Up-Sized Line.

Regulation No. 7 New or Additional Service Connections

Adopted: July 19, 2004

Amended: December 19, 2011; March 19, 2012; January 28, 2013;
March 18, 2013; April 21, 2014; June 15, 2015; March 21, 2016; March 27, 2017;
October 16, 2017

Water Service from Sacramento Suburban Water District is not transferable or assignable and is subject to full compliance with the District's Regulations Governing Water Service, including the following terms and conditions:

A. New or Additional Service Connections Generally

No New Service shall be connected to the District Water System unless there exists a District water main in a street or right-of-way fronting an Applicant's property accessible to the proposed location of the Applicant's service. A New Service will be located only in the front of a Parcel if an existing water main fronts a Customer's property. A New Service shall only be permitted in a backyard when no other viable option is available. A District water main available to serve a New Service shall have Adequate and Reserve Capacity and pressure to provide safe and reliable water service for domestic and fire protection use as solely and conclusively determined by the District. The District, in determining the adequacy of the existing facilities, will take into consideration all factors such as the water requirements of the project to be served by a New Service, the flows required for fire protection, and whether the use of the water will significantly impair service to existing Customers. If the District determines that the New Service will not be connected into the District Water System unless the Applicant provides such adequate extensions or additions as may be necessary in accordance with District Standards, regulations, and Master Plan ~~and technical specifications~~, then the District shall determine the location, capacity, and design of such extensions or additions and provide its determination to the Applicant. In making this determination, the District may consider all factors, including but not limited to, anticipated future land uses, water requirements, the desirability of looping water mains to increase reliability and adequacy of service, required flows needed for fire protection, and the long range plans for capital improvements of the District Water System. The District's determination will be conclusive on the Applicant.

B. No Prior Service

1. Adequate Main Abuts Applicant's Parcel

A New Service will be connected provided the following conditions are fulfilled:

- (a) The Parcel to be served is within the District's geographical boundaries or is annexed to the District in accordance with an order of LAFCO;

- (b) The Applicant's Parcel is or has been made subject to applicable bonded indebtedness of the District, if any;
- (c) The District possesses adequate water supply to serve the Applicant's requested needs;
- (d) A District water main of Adequate and Reserve Capacity exists in a public right-of-way fronting the Principal Boundary or Principal Boundaries of the Applicant's Parcel, where the public right-of-way is less than 80 feet wide. For public rights-of-way 80 feet or wider, a water main of Adequate and Reserve Capacity shall exist fronting the Applicant's Principal Boundary from within the area measured from the centerline of the public right-of-way to the Applicant's property line contiguous to the public right-of-way; and
- (e) An Application for Water Service has been filed with the District in compliance with Section D, hereof.

2. No Adequate Main Abuts Applicant's Parcel

Service will be connected provided the following conditions are fulfilled:

- (a) The Parcel to be served is within the District's geographical boundaries or is annexed to the District in accordance with an order of LAFCO;
- (b) The Applicant's Parcel is or has been made subject to applicable bonded indebtedness of the District, if any;
- (c) The District possesses adequate water supply to serve the Applicant's requested needs;
- (d) The Applicant will provide a main of Adequate and Reserve Capacity at his/her own cost and expense, which main shall be constructed in a public right-of-way fronting the entire frontage of the Applicant's Parcel. Should the Applicant's Parcel front two or more rights-of-way, the Applicant shall be required to install the main along the Parcel's Principal Boundary as designated in the District's Master Plan as the right-of-way necessary to provide for future extension of the District Water System. Should the Applicant be required to service the Parcel from a right-of-way other than the principal right-of-way (service shall also mean fire service if required by the applicable fire agency), then the Applicant shall be required to install water mains of Adequate and Reserve Capacity along both the principal and the service frontage. All provisions for main extensions shall be in accordance with all applicable District Standards, Regulations, Master Plans, Plans and Specifications; and

- (e) An Application for Water Service has been filed with the District in compliance with Section D, hereof.

C. Prior Service

1. A Parcel to which service has been discontinued will be re-connected upon the filing of a new application together with the payment of all fees and the upgrade of all District facilities affected by the re-connection as required by District Regulations.
2. If any one of the following, but not limited to, conditions exists on an Applicant's Parcel, the District will require an upgrade of the existing service before reconnection to the District Water System will be permitted:
 - (a) An improvement on the Parcel requires an increase in water pressure or quantity. The District's increase of water pressure or quantity determination shall be based on the quantity of added water use facilities to be installed as a result of the improvement. The Applicant's engineer shall submit to the District a record of all the plumbing fixtures and flows required to serve all existing and proposed improvements on the Applicant's Parcel. Based on this information, the District shall determine if the existing service is adequate to serve the Premises. The District shall use AWWA Standards to determine the adequacy of all services and the consequent need for upgrades.
 - (b) An improvement on the Parcel requires increased water pressure or quantity ~~in order to satisfy ISO Fire Suppression Standards as more specifically described in Regulation No. 9, Section O~~ in order to meet fire demand as computed under the fire suppression rating schedule, published by the California Fire Code (Edition 2013, or latest edition).
 - (c) An improvement changes a multiple unit Premises from master-metered to individually-metered units.
3. In those cases when service has not been interrupted but the Parcel has been improved, the provisions and requirements of Regulations Nos. 7 and 9 hereof shall apply if any one of the conditions described above in subparagraph 2 exists.

D. Application for Service

1. The District will not provide or continue service to any Parcel unless the present Landowner has filed an Application for Water Service with the District.
2. Application for service shall be made in writing on forms provided by the District and signed by the Landowner.
3. Applications shall be supported by plat maps and a legal description of the Parcel, and a project description that includes construction type and number of living

units, plan of water distribution, project approval by the appropriate fire service district, the planned service date, the name and billing address of the Landowner, the domestic water requirements in gallons per minute, and the total fire-flow requirements, as well as the location of existing and/or proposed fire hydrants to meet applicable fire-flow requirements.

4. The failure of an Applicant to request the connection of his or her Parcel to the District Water System within one year of the District's Plan Approval shall automatically terminate the application and entitle the Applicant to the return of all fees paid except the plan check fee, any annexation fee, and other fees as described in Subsection G hereof. A request for refunding of fees shall be made in writing to the District.
5. The Applicant must deposit with the District, on or before the Plan Approval date, an amount equal to the cost of all Extension Facilities proposed to be constructed by the District, together with all service charges, fees, and Facilities Development Charges in effect on the date of the Final Approval.
6. Any decision by the District's staff concerning an application for service is appealable to the District Board of Directors or the Board's Facilities and Operations Committee. An Applicant's appeal must comply with the applicable requirements provided in Regulation 17, Procedures for Variance Application.
7. In situations where a retail municipal water supplier must allocate service connections due to supply limitations, Government Code section 65889.7 requires the District to provide a service priority to proposed residential developments that include units affordable to lower income households, as such are defined in Health & Safety Code sections 50052.5, 50053 and 50079.5. The District currently has sufficient supplies to serve all anticipated new demands and given its largely built-out condition, expects to have sufficient supplies to meet all future new demands. If, however, an allocation of new services becomes necessary, the following states the District's low income housing priority policy. An application for service to a proposed development that includes housing units affordable to lower income households, as defined by Government Code section 65589.7(d)(1), shall not be denied, conditionally approved, or the amount of service applied for reduced without specific written findings that the denial, condition, or reduction is necessary due to one or more of the following:
 - a. The District does not have "sufficient water supply," as defined in paragraph (2) of subdivision (a) of Section 66473.7, or is operating under a water shortage emergency or distribution capacity to serve the needs of the proposed development, as demonstrated by a written engineering analysis and report;
 - b. The District is subject to a compliance order issued by the State Department of Public Health that prohibits new water connections;

- c. The Applicant has failed to agree to reasonable terms and conditions relating to the provisions of service generally applicable to development projects seeking service from the District, including, but not limited, the requirements of local, state, or federal laws and regulations or payment of a connection fee or capacity charge imposed pursuant to Government Code section 66013.

In accordance with Water Code section 10631.1, the District will include in its Urban Water Management Plans projections of water use by single- and multiple-family housing needed for low income families.

E. Water Main Sizes

1. The size of water mains to be installed in accordance with this Regulation 7 shall be in compliance with ~~the provisions of Regulation 9, Sections N and O~~ District Standards, Section D Design Standards.
2. Whenever Extension Facilities are required to be installed in accordance with this Regulation 7, the District may require, in accordance with its approved Master Plan and for the purposes of public convenience, necessity, and safety, the installation of an Up-Sized Line. Whenever the District requires the installation of an Up-Sized Line, the line shall be designed in accordance with one of the following procedures at the District's option:
 - (a) An Applicant, with approval from the District, shall have his or her engineer design the Up-Sized Line. The Applicant shall competitively bid and in accordance with the lowest responsive and responsible bid, construct the extension facility in accordance with the following conditions:
 - (1) The Applicant's engineer will prepare a spreadsheet detailing the Applicant's cost of installation of the line size required in accordance with ~~provisions of Regulation 9, Sections N and O~~ District Standards, Section D Design Standards.
 - (2) The Applicant's engineer will prepare a spreadsheet detailing the cost of the installation of the Up-Sized Line.
 - (3) The Applicant's engineer shall design plans and specifications for both the main size required in accordance with District Standards and Regulations and the Up-Sized Line. The design of the water mains shall be according to District Standards with plan review, revisions, and Plan Approval by District staff.
 - (4) The District shall pay to the Applicant, when the job is completed and accepted by the District, the difference in cost between the cost of the Up-Sized Line based on the lowest responsive and responsible bid and the cost of the installation of the line of the

size required to adequately serve his or her Parcel, based on the average of the three lowest responsive and responsible bids. The District shall pay for the Up-Sized Line in accordance with Regulation 9, Section L.

- (5) The Applicant shall pay to the contractor the full cost of the main installed.
 - (6) The Applicant shall pay all of the District's fees, charges and costs required for the installation of the water main.
 - (7) The Applicant shall comply with all applicable regulations of the District and any amendments adopted from time to time by the Board of Directors.
- (b) The District shall design plans and call for separate bidding to construct the Extension Facilities as follows:
- (1) District staff will prepare spreadsheets detailing the cost of installing the line size required in accordance with ~~provisions of Regulation 9, Sections N and O~~ District Standards, Section D Design Standards.
 - (2) District staff will prepare spreadsheets detailing the cost of installing the Up-Sized Line.
 - (3) The Applicant shall pay to the District the full cost of the installation of the line of the size required to adequately serve his or her Parcel, based on the average of the three lowest responsive and responsible bids, and the District will pay the difference for the cost of the Up-Sized Line as contained in those bids. Applicant's payment to the District shall be no later than 30 calendar days after the District has awarded the project.
 - (4) The Applicant shall comply with all District Standards and Regulations ~~rules and regulations of the District~~ and any amendments adopted from time to time by the Board of Directors.

F. District Final Plan Approval

The date of the District's final Plan Approval is defined as that date when the District shall, after receipt of all applicable fees, charges, applications and grants of easements, date and sign the Applicant's plans as approved for construction, or where no Extension Facilities are required, on that date when the District shall, after receipt of all applicable fees, charges, application and grants of easements, approve and date the said application. Should Applicant not obtain District's approval of his or her plans, the Applicant shall not be allowed to connect to the District Water System until he or she has obtained final Plan Approval. The District's Final Plan Approval is subject to all time limits and other

restrictions provided in this Regulation 7 and such approval does not create any vested right in an Applicant except to the extent provided herein.

G. Expired Plans/Un-Built Projects

If construction of the required extension has not begun on the one-year anniversary date of Plan Approval or the District receives a written statement from an Applicant that the project will not be built, the District shall deem the plans void. The District will refund collected fees upon the Applicant's written request, except for plan review, hydrant permit, construction water, annexation, and fire hydrant flow test fees. Should an Applicant resubmit plans for approval, the District will review the plans in accordance with District Standards and this Regulation 7 and Regulation 9. New and/or additional fees will be calculated and assessed for review of resubmitted plans. New Plan Approval shall be per Section F hereof.

H. Charges for New or Improved Service Connections

1. Plan Check Fee

A charge shall be assessed by the District for the review of the Applicant's construction plans for new or improved water service. The charge will be assessed at the rate of \$90.00 per hour for each District employee assigned to the review. In addition, the District may charge staff time or consultant fees at cost for any additional services required as part of the review, including but not limited to, hydraulic analyses, site verification, and research. The District shall estimate the cost of reviewing such plans and notify the Applicant of the estimated costs for the services required. The Applicant shall deposit with the District the estimated plan check costs as a condition precedent to plan review. In the event that the actual cost for plan checking incurred by the District exceeds the amount deposited, the Applicant shall pay the excess fees due to the District before final Plan Approval. The charge for Plan Review shall be in accordance with Regulation 3, Section R.

2. Service Line Charge

The District charge for the installation of a new metered water service line from the existing water main to an Applicant's Parcel shall equal the District's actual cost of materials, installation, labor, equipment, and normal overhead charges. The charge for the installation of a new service line shall be in accordance with Regulation 3, Section U.

3. Service Line Relocation

The District charge for the relocation of a service line from the existing water main to an Applicant's Parcel (which will be relocated according to District Standard~~current specifications~~) shall equal the District's actual cost of materials, installation, labor, equipment, and normal overhead charges. The charge for relocation of a service line shall be in accordance with Regulation 3, Section V.

4. Water Meters

District charges for installing and setting water meters will consist of the District's actual cost of materials, labor, equipment, installation, and overhead. The installation of a metered New Service shall be charged according to Section H.2 of this Regulation 7, provided that all applicable conditions of the District's Regulations have been satisfied. When the only service rendered is restoring water service by reinstalling a Meter, a charge will be assessed in accordance to Regulation 3, Section I for each reinstallation.

5. Facilities Development Charge

To cover a portion of the District's costs incurred for the installation of wells, pumps, and storage and treatment facilities, and to provide a fund for reimbursement of a portion of Customers' costs of Extension Facilities pursuant to Regulation No. 9, Section A, a Facilities Development Charge will be imposed in accordance with the following schedule for each new or improved service:

Meter Size	Facilities Development Charge*
5/8"	\$3,228.00
3/4"	\$4,817.00
1"	\$8,045.00
1 1/2"	\$16,041.00
2"	\$25,676.00
3"	\$48,172.00
4"	\$80,304.00
6"	\$160,559.00
8"	\$256,904.00
10"	\$369,339.00
12"	\$541,941.00

* Each year the Facilities Development Charges will be adjusted to reflect cost changes in materials, labor or real property applied to projects or project capacity. This adjustment in cost is not considered a change in the Facilities Development Charge methodology. The cost adjustment shall be made by applying one or more specific cost indexes or other periodic data sources. A specific cost index or periodic data source must be:

1. A relevant measure of the average change in prices or cost over an identified time period for materials, labor, real property or a combination of the three;
2. Published by a recognized organization or agency that produces the index or data source for reasons that are independent of the Facilities Development Charges methodology;
3. Publicly-available and generally recognized in the utility industry as an authoritative resource for calculating periodic cost adjustments; and
4. Shall be adopted from time to time by Resolution of the Board

The effective date of the recalculated Facilities Development Charges will be April 1st. A comprehensive review and update of Facility Development Charge methodology shall occur at least every five years.

Private Fire Protection

Size of Each Private Fire Service Connection	Private Fire Protection Connection Fee **
4 Inch and under	\$1,750.00
6-inch	\$1,825.00
8-inch	\$1,900.00
10-inch	\$1,975.00
12-inch	\$2,050.00

**Each year the Private Fire Protection Connection Fee will be adjusted to reflect cost changes in materials, labor and other relevant costs. The cost adjustment shall be made by applying one or more specific cost indexes or other periodic data sources. A specific cost index or periodic data source must be:

1. A relevant measure of the average change in prices or cost over an identified time period for materials, labor, real property or a combination of the three;
2. Published by a recognized organization or agency that produces the index or data source for reasons that are independent of the Facilities Development Charges methodology;
3. Publicly-available and generally recognized in the utility industry as an authoritative resource for calculating periodic cost adjustments; and
4. Shall be adopted from time to time by Resolution of the Board.

The effective date of the recalculated Private Fire Protection Connection Fee will be April 1st. A comprehensive review and update of Private Fire Protection Connection Fee shall occur at least every five years.

The District will determine the Facilities Development Charge for services greater than twelve (12) inches at time of application.

- (a) In the event that the Facilities Development Charge assessed to the Applicant impose a financial burden on his or her project, the Applicant may request that the District enter into a deferred payment plan on the all of following terms:
- (1) The written application includes a request for deferment of the payment of all or part of the Facilities Development Charge.
 - (2) The District Board of Directors must approve the request.
 - (3) The request is accompanied by a surety bond or an irrevocable letter of credit in an amount equal to the Facilities Development Charge imposed on the Applicant as specified above, and the specified security is issued by a surety or financial institution authorized to do business and in good standing with the appropriate agency of the State of California.
 - (4) The deferment request is accompanied by an executed Contract on a form provided by the District, which Contract includes the provisions of this subsection and provides for the payment of such Facilities Development Charge as may be in effect on the date of payment, together with interest at the legal rate. The Contract also will provide that the Applicant will pay the Facilities Development Charge in full no later than a date that is no more than 12 months from the date of the filing of the Service Application with the District.
 - (5) The written application and accompanying plans must comply with all applicable District Standards, Ordinances, and Regulations, Plans and Specifications.
 - (6) The deferment rights granted to an Applicant, if any, are not assignable except upon the District's written consent.

6. Supervision and Inspection Charges

A charge shall be assessed for District supervision and inspection of water system improvements based upon hourly rate of \$75.00 per hour. At the time of service application, the District will estimate the minimum cost for District supervision and inspection of the proposed water system improvements, which the Applicant shall deposit with the District in advance of Plan Approval, in addition to all other charges owing under the District's regulations. In the event that actual supervision and inspection costs for supervision and inspection incurred by the District exceed the amount deposited, the Applicant will pay the excess fees due to the District as a condition precedent to final District acceptance of the water system improvements and connection of service. Should any additional costs be required due to damage to District facilities by Applicant's contractor during

construction, the cost shall be billed separately to the contractor. The contractor's payment of billed damages shall be due as a condition of commencing water service and final District acceptance of the improvements. The charge for Supervision and Inspection shall be in accordance with Regulation 3, Section S.

Should the need for an inspection occur weekdays between 4:30 p.m. and 8:00 a.m. the following day, or on weekends or holidays, the requested inspection shall be scheduled through the District to ensure the availability of personnel for the time requested. Overtime costs for inspections outside of normal business hours by District personnel shall be calculated and paid by the Applicant in advance of scheduling the after-hours work. The overtime charge shall be at least one and one-half (1½) times the standard hourly rate for inspection.

7. Fire Hydrant Flow Test

When requested by the local fire agency having jurisdiction over a project within the District, a fire hydrant flow test will be performed to determine the flow available at the test date. The flow test will only demonstrate the pressure and distribution capabilities at the time and under the conditions existing when the test is performed. The District will not guarantee that the flow test results obtained will be consistent with flows available at all times and under all conditions.

Flow tests will be performed either in the field or using the District's updated water model. Tests will be performed by District staff as time allows but not to exceed 4 weeks after a request is made. For design purposes, fire flow tests using the water model will be run with the most conservative assumptions reasonable in order to establish the projected worst case conditions prevailing in the District's water system.

A charge will be assessed for the District to supervise and perform the test and to provide written results. The charge shall be in accordance with Regulation 3, Section T.

8. Bacteriological Testing

After installation and disinfection, the District will sample all new Extension Facilities and have the sample tested by a certified laboratory for bacteria. The Extension Facilities will be super-chlorinated and flushed using at least three times the volume of water in the facilities before bacteria testing is to begin. After flushing is complete, the first set of bacteria testing will be collected from the Extension Facilities. 24 hours after the first collection, a second set of bacteria testing will be collected. If the new Extension Facilities fail to meet applicable federal, state and local bacteriological standards, the Applicant will be responsible for re-disinfecting and re-testing those facilities until they pass. A charge for this test and any required retests will be assessed in accordance to Regulation 3, Section J.

9. Backflow Prevention Assembly Test Charge

A charge will be assessed for the District to test all Backflow Prevention Assemblies as part of a new development to verify the operating status of each such device. If a Backflow Prevention Assembly does not pass the first inspection, the Applicant will be required to repair the Backflow Prevention Assembly and re-test it at the Applicant's expense. Each backflow test charge shall be in accordance with Regulation 3, Section D.

10. Environmental Document Charge

Whenever the District determines that an environmental impact report or other environmental document is required for a proposed Extension Facility necessary to serve an Applicant's Parcel, the District will estimate the cost of preparing such a document, including overhead expenses, preparation, and hearings. In addition to all other costs that may be due to the District for provision of service, the Applicant shall deposit with the District the estimated Environmental Document Charge as a condition precedent to the District's approval of an environmental document. In the event that the actual cost to prepare an environmental document exceeds the amount deposited, the Applicant will pay the excess amount before Final Approval. If the deposit exceeds the cost, the District will refund the balance.

In the event that the Applicant delivers to the District a certified copy of an environmental document duly approved and filed by the County of Sacramento relevant to the Applicant's Parcel, the District may determine, in its sole discretion, that the provisions of this paragraph do not apply.

11. Furnish-Only Fees

Meters, as shown on the standard detail drawing of the District's ~~Improvement Standards and Technical Specifications adopted by the Board of Directors and any revision thereto~~ Standards, are required on all new or improved Service Connections and shall be Furnish-Only Materials by the District. The District will charge fees for Furnish-Only Materials to an Applicant in accordance with the number, the cost, and the District's inventory and overhead cost for furnishing the required Meter(s).

I. Water Service

The District shall make water service available to an Applicant's new or improved Service Connection subject to the following terms and conditions:

1. No service shall be granted or continued unless an Applicant has filed an application for service on a District-furnished form.
 - (a) All new construction and improved Parcels shall have a Meter installed on the Principal Boundary no more than one foot behind a sidewalk or curb.

- (b) Monthly water billing shall be computed on actual consumption based on the Metered Rates in Regulation No. 3.
 - (c) A separate Service Connection and Meter shall be installed on each Parcel. A separate Service Connection may include multiple meters except as otherwise limited by this Regulation 7.
 - (d) If a Parcel is found to be served by more than one Service Connection, it will be at the sole discretion of the District, in consultation with the Customer, to determine how the parcel will receive water through a metered connection(s). The owner of the parcel will be responsible for the cost of any changes to the service configuration, including the abandonment of any existing unused Service Connection or the upgrade to District current standards of additional Service Connections as determined necessary by the District.
 - (e) The minimum water service size for a new residential Service Connection shall be one inch in diameter.
 - (f) No more than one Service Connection per Single Family Residential Parcel will be permitted unless otherwise determined by the District.
 - (g) Each residential unit is required to have its own District-approved Service Connection.
 - (h) A separate metered irrigation service shall be required for all non-residential units.
 - (i) No credit will be allowed for vacancies in multiple family residential units.
 - (j) All non-residential services and multi-family residential structures containing 5 or more units fed from a single connection services shall have water meters with an approved Backflow Prevention Assembly.
2. Use of a 5/8" meter shall be limited to multi-family residential units fed by a single water service such as, but not limited to, duplexes, triplexes, fourplexes, apartment buildings with five or more residential units, and condominiums.
3. Voluntary Meter Installation on an Existing Residential Service
- (a) At a Customer's request, the District will install a permanent Meter on an existing un-metered Service Connection for a residential Parcel at no direct charge. However, should the Parcel be within a current main replacement project area that is scheduled for a new water service installation a new meter will be installed only after the installation of the new water main.

- (b) Upon installation of a Meter, the District will compute and charge the Parcel's water bill based on actual consumption at the Metered Rates stated in Regulation No. 3.

J. Connection to Facilities Extended by District

1. If an Applicant for water service to a Parcel fronting Extension Facilities built with District funds desires to connect to such facilities, he or she shall deposit with the District, together with a New Service application, a portion of the total cost of designing and installing the Extension Facilities. The Applicant's cost share shall be determined by comparing the length of the Applicant's frontage along the right-of-way in which the water service facilities will or have been located to the total combined frontage along said right-of-way of all Parcels served by the Extension Facilities. The District also will calculate and charge all other applicable fees and charges established by District Regulations.
2. If an Applicant chooses, payment of the costs and charges to connect to District-constructed Extension Facilities as defined in Regulation 9, Section A may be deferred for a period not to exceed 12 months from the date on which the District approves the Application for Water Service, provided:
 - (a) The Applicant requests the District defer the charges in writing before the date the application is approved, and
 - (b) The full amount of such fees and charges together with interest thereon at the legal rate is guaranteed by a surety bond issued by a surety company acceptable to the District, and the Applicant executes an agreement to make such payment together with interest at the legal rate within the 12-month deferment period, and
 - (c) The deferment is not transferable.
3. Reimbursement for eligible costs of Extension Facilities as defined by Regulation 9, Section A will not be made until all connection charges have been paid by the Applicant.

K. Abandonment of Service Line

The District charge for the abandonment of an existing water service from the existing water main to the Applicant's Parcel shall equal the District's actual cost of materials, labor, equipment and normal overhead charges. The charge for service abandonment shall be in accordance with Regulation 3, Section W.

L. Existing Services

All Service Connections that are not directly affected by an improvement, but which exist on a Parcel to be improved, shall be upgraded to current District Standards if the

Landowner intends to use such service(s) in the future. If the unaffected Service Connection(s) will not be used, the Landowner shall be required to abandon such service(s) in accordance with District Standards. This requirement applies to all services that serve other buildings or appurtenances on the Parcel being improved.

District-required upgrades of existing Service Connection(s) shall include, but are not limited to, repair, upgrade and/or replacement of existing facilities to current District ~~Specifications and Standards~~ Details.

Credit will be given for existing unused services on improvement projects affecting the Parcel. Credit will be given in the amount of the existing Facilities Development Charge on the Plan Approval date, subject to abandonment of the unused Service Connection(s) as required herein. Credit will only apply to new Facilities Development Charges and will not exceed the total for the project.

M. Existing Services on Split Parcels

After a parcel split, the existing service will serve only the Parcel on which it is installed. If any unserved portion of a split Parcel will be developed, the Landowner shall be required to install a New Service on such Parcel in accordance with all applicable District ~~Standards, Ordinances, rules, and Regulations, plans and specifications.~~

Regulation No. 9
Extensions of and Additions to District Facilities

Adopted: July 19, 2004

Amended: December 21, 2009; December 20, 2010; January 28, 2013;
June 15, 2015; October 16, 2017

A. Extension Facilities

Extension Facilities are a water distribution system, including without limitation, water mains, storage tanks, pumps, wells, and appurtenances, which provide for water transportation and/or production to a Parcel or Parcels not presently served by an adequate water supply as the same is defined in Sections ~~N and O~~ D of the District Standards hereof. There are two classes of such facilities, namely:

1. Applicant's Cost: In those situations where the District does not maintain a main line of Adequate and Reserve Capacity in a street or public right-of-way completely fronting the Applicant's Parcel(s), the Applicant shall install, at Applicant's sole cost, Extension Facilities of the size defined in ~~Sections N and O~~ District Standards, Section D fronting his, her or its Parcel(s) in the public right-of-way. As used in this Section, street or public right-of-way shall be plural when the Applicant's Parcel(s) fronts streets or public rights-of-way on two (2) or more sides. In this situation, the Applicant shall provide Extension Facilities on the Principal Boundary that correlates to the District Master Plan as a necessary extension to provide for future extension of the District Water System. Should the Applicant be required to service the Parcel(s) on the other right-of-way, then the Applicant shall be required to also provide a water main of Adequate and Reserve Capacity along this frontage; said mains shall be of the size defined in ~~Sections N and O~~ District Standards, Section D hereof from a point where a water main of Adequate and Reserve Capacity exists to the point most distant from that main on the Principal Boundaries of the Applicant's Parcel(s).
2. District's Cost: There will be situations where additional water demand will require the installation of additional Extension Facilities beyond Applicant's Principal Boundary or Up-Sized Lines, or where future development will require the installation or construction of such facilities that otherwise would be prohibited from construction for a period of time by the County of Sacramento. In such cases, the District may, at its cost, authorize the construction of such Extension Facilities or Up-Sized Lines as are deemed necessary by the Board of Directors to comply with the current District Master Plan.

B. Location, Design, and Specifications of Extension Facilities

The location, design, and specifications of all Extension Facilities shall be determined by the District's Master Plan and by the application of the provisions of this Regulation and Regulation 7, and the application of the District's ~~Standards, Specifications and Plans~~ and all revisions thereof.

C. Ownership and Operation

Extension Facilities constructed in accordance with the District's requirements shall, upon acceptance by the District, be owned, operated, and maintained by the District as part of its water storage and distribution system. As a condition of approval of Extension Facilities, the Applicant will convey the new facilities to the District if constructed at Applicant's cost. Prior to acceptance by the District in writing, ownership and responsibility of all Extension Facilities shall remain the Applicant or the Applicant's contractor, agent or other authorized representative. The Applicant shall provide and fund a one-year guarantee bond or similar security on all Extension Facilities. The guarantee period shall begin on the date of final acceptance by the District.

D. Location of Existing Facilities

All existing facilities located on an Applicant's Parcel or Parcels that are situated above ground or at ground level shall be relocated below ground as specified in the District's ~~Standards, Specifications and Plans~~. All such relocations shall be at Applicant's cost.

E. Location of Extension Facilities

Extension Facilities shall be located as determined in the District's sole discretion on land granted to or owned by the District in fee, in a public right-of-way, or in an easement granted to and accepted by the District. The Applicant will, without cost to the District, cause to be conveyed or granted such lands and/or easements as the District determines to be necessary for the Extension Facilities. The land and/or easement shall be conveyed to the District free and clear of all liens and encumbrances. An Applicant's failure to cause to be conveyed or granted the lands and/or easements required by the District as a condition of acceptance of Extension Facilities shall be grounds for the District to refuse to provide water service to the Applicant or cause discontinuance of any existing service until such facilities are furnished.

F. Payment of Cost of Extension Facilities

Except for the incremental cost of any required Up-Sized Lines or other facilities to be built at the District's cost in accordance with Section A.2, the Applicant shall pay all costs of constructing the Extension Facilities required to serve his, her or its Parcel or Parcels in accordance with the provisions of Section A.1 hereof and Regulation 7. In cases where the District constructs the Extension Facilities in accordance with Section A.2 of this Regulation 9, the District's actual costs and party responsible for construction will be determined solely by the District. The District's actual costs for any facilities

shall include labor, materials, equipment, engineering, inspection, and usual overhead expenses related to such work.

G. Deposit of Installation Costs

The Applicant shall deposit with the District, as a condition precedent to written District approval of plans for Extension Facilities, a sum equal to the estimated total cost of those facilities, including all charges defined in accordance with provisions of Regulation 7, Section F hereof. The required deposit shall be in cash or an irrevocable letter of credit in a form and issued by a bank or financial institution acceptable to the District. Upon completion of the work, and if the deposit paid to the District is less than the actual cost of the work, the difference shall be paid by the Applicant prior to the District's commencement of water service. Any amount paid, including Facilities Development Charges, Supervision and Inspection fees, overhead costs, and any other charges that may be owing, which are in excess of the actual cost of installation of the Extension Facilities, will be refunded by the District after Final Approval of the new facilities.

H. Acknowledgement of Necessity for and Reasonableness of Extension Facilities

Anyone who pays, deposits, or agrees to pay all or part of the cost of Extension Facilities thereby acknowledges that such facilities are necessary and reasonable.

I. Installation

Extension Facilities will be installed by the District or by the Applicant, unless the District elects to require the installation of Up-Sized Lines, in which case the District will install or pay the incremental cost of those facilities. The Applicant may, when permitted, hire a competent and experienced licensed contractor to install the Extension Facilities. Such contractor must have specific experience in the construction of water facilities and be approved in writing by the District. All work performed by an Applicant's contractor is subject to final inspection and approval by the District as a condition of its acceptance of the Extension Facilities and provision of water service to the Applicant. The District reserves the exclusive right to construct with its own personnel or by Contract, all Extension Facilities required, including Up-Sized Lines and complicated connections or extensions involving interference with existing District Water System facilities.

J. Reimbursable Costs

1. Whenever the Applicant is required in accordance with the provisions of this Regulation or Regulation 7 to install Extension Facilities that include the construction of an Up-Sized Line or the extension of facilities beyond the frontage of the Parcel or Parcels to be developed, the Applicant shall be entitled to a reimbursement for a portion of such installation, if the Parcel or Parcels that Extension Facilities cross is already developed with service from a backyard main or has not been developed. For Parcels that have service from an existing water

main in the front yard, reimbursements for Extension Facilities that are in addition to or replacing existing facilities as necessary per District regulations will not be eligible for reimbursement.

2. Reimbursement shall be made in accordance with the following terms and conditions:
 - a. The Applicant has furnished the District the bid or cost of the Facilities Extension.
 - b. The Applicant approves in writing of the reimbursement calculated by the District based on the supplied bidder costs.
 - c. The main extension is installed per plans and District standards with all deficiencies corrected to the satisfaction of the District.
 - d. The Extension Facilities are successfully completed, and all required tests are performed and satisfactorily passed (including a hydro-test, and sanitary test).
 - e. If applicable, performance of a certified on-site test of Backflow Prevention Assembly(s) demonstrating compliance with Sacramento County requirements.
 - f. The District has issued final written acceptance of all Extension Facilities as installed per the approved plans.
 - g. When the above items have been completed, the Applicant shall then request, in writing, the reimbursement. Reimbursements will not be provided if any of the above conditions are not satisfied.

K. Reimbursement Fund

There is established a separate Facilities Reimbursement Fund. The District will credit to said fund 20% of all Facilities Development Charges paid to the District during each fiscal year. The deposits so obtained shall be the sole source of income to said fund for that year. Any remaining balance in the said fund after payment in that fiscal year to all reimbursement entitlements shall be transferred into the District's General Fund.

L. Reimbursement Payments

On or before April 1st of each year, the District shall pay to Applicants eligible for reimbursement as provided in paragraph J above, that proportionate share of the total amount deposited into the Facilities Development Fund during the year of his/her payment for the work as his/her contribution bears to the total amount paid into the fund during the fiscal year.

On or before April 1st of the second and successive years, the District shall pay to the Applicant that proportionate share of the total amount credited to the Facilities Development Fund during the year of payment as the balance due the Applicant bears to the total amount paid into said fund during the each of the second and successive years.

An Applicant's reimbursement entitlement shall expire and terminate when the District has paid the same in full without interest, or has made payments for a ten (10) year period from the date of first payment, whichever comes first.

M. Assignment of Reimbursement Entitlement

The District will not recognize any assignment or attempted assignment of a reimbursement entitlement unless the assignment is on a form satisfactory to the District and is signed and acknowledged by the assignor. The District will furnish such forms of assignment upon request.

N. ~~Minimum Water Main Size~~

~~The minimum size for water distribution mains necessary to adequately deliver domestic water and public fire protection to all new developments and construction of whatever kind or size shall be determined with reference to real property use zones established by the County of Sacramento, including any variance granted thereto, and specifically in compliance with the following provisions:~~

Sacramento County Zoning	Minimum Water Pipeline Size
Industrial (All Types)	16-Inch
Commercial (PB, SC, LG, GC, AC, TC)	12-Inch
Mobile Home Park (RM-1)	12-Inch
High Density Residential (RD-20, RD-30, RD-40)	12-Inch
Public (Schools, Parks, etc.)	12-Inch
Quasi-Public (Hospitals, Churches, etc.)	12-Inch
All Other Zoning*	8-Inch
*Exception: Cul-de-sacs, Single Family (No Fire Hydrant Requirement)	6-Inch

~~For infill parcels, a variance for the minimum pipeline sizes in this section will be considered if the proposed new development or construction of whatever kind or size complies with Section O.~~

O. ~~Maximum Water Velocity~~

~~All new Extension Facilities are required to be designed to provide for a maximum water velocity within those facilities of five (5) feet per second under maximum day and fire demand conditions, as fire demand is computed under the fire suppression rating schedule, published by the California Fire Code (Edition 2013, or latest edition). If a conflict between Sections N and O shall exist, the provisions of this Section O shall control.~~



Facilities and Operations Committee

Agenda Item: 4

Date: September 25, 2017

Subject: Palm Well Site Issue Update

Staff Contact: David Espinoza, Senior Engineer

Recommended Committee Action:

Receive report from staff on the Palm Well Site issues and direct staff as appropriate.

Background:

The Palm Well site is located on Palm Avenue, west of the intersection of Palm Avenue and Hackberry Lane in the Foothill Farms area of Sacramento County. The Palm Well Project consists of drilling a new well at the site and equipping it with a new pump station and related controls and valves. The target production rate for the well is 1,500 gallons per minute (gpm). The original schedule for this project was to drill the new well in the fall of 2016 and equip it with the new pump station and control valves in spring of 2017. Staff anticipated having the well operational for the summer of 2017. Unfortunately, Manganese (Mn) was discovered in the water near the Secondary Drinking Water Maximum Contaminant Level (MCL). Since the discovery of Mn, treatment has been added to the design of the well and construction is now anticipated for spring of 2018.

Discussion:

In anticipation of the project in 2016, staff along with the District's consultant, Luhdorff & Scalmanini Consulting Engineers (LSCE), held a meeting at the well site and invited the neighboring residents to attend. Three residents attended the meeting and expressed their concerns with the project along with other neighborhood concerns. Drainage, lighting and security were the concerns expressed to staff. Currently, neighborhood drainage is collected via roadside ditches along the southern side of Palm Avenue in a westerly direction, towards the District's parcel. There was some concern that the ditch fronting the District's parcel was not being properly maintained. Acknowledging a predicted wet winter, staff proceeded to install an 18-inch corrugated drain pipe under/across the District's driveway to alleviate the water collecting in the neighboring roadside ditches. A letter was mailed out to the residents advising them that the lighting and security issues were being designed and implemented during the final phase of the project. The pump station design is currently under design and staff has directed LSCE to provide for proper lighting at the District's driveway entrance to the site.

One of the residents near the project site attended the August 21, 2017 regular Board meeting expressing concerns with the lighting, security, drainage, illegal dumping and homelessness surrounding the Palm Well facility. Exhibit 1, attached, depicts several pictures of the surrounding area with illegal dumping. Board President Wichert provided direction and staff

scheduled a site visit. The meeting took place on September 14, 2017, between President Wichert and Assistant General Manager Dan York (AGM York). A subsequent meeting was also attended by President Wichert and AGM York with County Supervisor Sue Frost and her chief of staff on the afternoon of September 14, 2017. Supervisor Frost was open to discussions related to the ongoing neighborhood issues such as lack of lighting, security and illegal dumping. Sometime between the September 18 and September 20, the County cleared the illegal dumping on Palm Avenue within the right of way and installed three wooden bollards with cables to prevent vehicles from driving down towards the creek area. Please see Exhibit 2, attached, for pictures of the cleared area and bollards installed.

Staff has contacted SMUD to inquire on the possibility of installing a light on SMUD's power pole that is at the entrance to the well site. SMUD has a program where they install the light at no cost and the District pays the monthly flat rate bill, which is approximately \$5.95/month. District staff is looking into procuring bids to for a contractor to remove all garbage from the District's property on a quarterly or possibly monthly basis. In an effort to clearly distinguish the District's parcel from the County right of way, staff will be contracting with one of the District's on-call surveying firms to place painted fence posts ("T" posts) at all Palm Well Site property corners. The fence posts will help to define the extent of the property owned by the District.

The resident who attending the August regular Board meeting has been notified and provided with an update of the recent County and District activities.

Fiscal Impact:

The added light by SMUD and ongoing garbage removal will add to the District's operating expenses. The estimated cost for electricity related to the added lighting is \$5.95 per month. Staff is procuring bids for the garbage removal, pending the placement of fence posts on the property corners.

Strategic Plan Alignment:

Customer Service - 3.A. Operate in an open manner including public information to the Board of Directors.

Customer Service - 3.D. Provide customer and community relations by communicating, educating, and providing updates on District operations, water quality issues, water conservation, fiscal stability, environmental stewardship, sustainability of water resources and physical system assets.

Customer Service - 3.E. Solicit and respond to customer and community concerns and feedback.

Maintenance of District properties will reduce potential liability claims, which is a benefit to District rate payers.

EXHIBIT 1



Above: Shopping Cart in the County's Right of Way fronting the District's entrance to the parcel.

Below: Illegal dumping in the County's Right of Way at the end of Palm Avenue.



EXHIBIT 2



Above: Palm Avenue Right of Way cleared of garbage and 3 wooden bollards with cables installed.

Below: Palm Avenue Right of Way cleared of garbage.





Facilities and Operations Committee

Agenda Item: 5

Date: September 24, 2017

Subject: City of Sacramento Agreement and Wholesale Water Rates

Staff Contact: Dan York, Assistant General Manager

Recommended Committee Action:

Receive report on current discussions related to the City of Sacramento amending 2004 Wholesale Water Supply Agreement, wholesale water rates, and 9,023 acre feet of surface water supply of the former Northridge Water District.

Background:

District staff has been working with City of Sacramento (City) staff to address amending the 2004 Wholesale Water Supply Agreement (Agreement), wholesale water rates, and obtaining the 9,023 acre feet (af) of surface water supply that the former Northridge Water District (NWD) had contracted with the City.

Discussion:

The District and the City entered into the Agreement in January 2004. The Agreement was for the right to divert up to 26,064 af of water per year from the American River under the City's Permit Supply. The cost per af in 2004 was \$110. In 2016/17, the cost per af was set at \$428. Due to the substantial increase in cost per af, District staff has met with City staff numerous times informing them of the concerns related to the increases that will basically price the City out of selling their water to the District. Both agencies concur that it is advantageous to amend the Agreement that will hopefully lower the cost per af and would allow the City to utilize their water supplies and allow the District to purchase the water to benefit its Conjunctive Use Program.

On September 20, 2017, District and City staff met to discuss the status of ongoing discussions related to the Agreement. The City informed District staff that their legal counsel has reviewed the 2004 Agreement and provided comments and questions to City staff for their response. During the September 20th meeting, discussion topics to potentially add to the amended agreement are listed below:

- Wholesale Water Rates: The City's Finance Department has contracted with HDR Engineering Inc. to conduct a wholesale water rate analysis. It is anticipated to be

completed by January/February 2018. The intent of the wholesale water rate analysis is to potentially adopt a wholesale water rate that is standard in the water treatment industry.

- 9,023 af of surface water supply of the former Northridge Water District: Add the subject surface water supply to the amended agreement that can only be utilized in Area D.
- Emergency/Maintenance Supply: Set parameters for utilizing the interconnection between the agencies for emergency or maintenance utilization.
- Sacramento River Water Supply: Opportunities to receive water from the Sacramento River Treatment Plant. Note, there are certain provisions in the Water Forum related to the Purveyor Specific Agreement.
- Water Transfers: Insert language/terms that would simplify the internal approval process in order to expedite water transfer opportunities.
- Groundwater Storage: Include language/terms that would simplify the internal approval process to conduct groundwater storage opportunities.

The City is anticipating delivering a draft 2004 Agreement in November/December 2017 for District staff and legal counsel review. The goal is to have a draft Agreement prepared for approval in January/February 2018.

Fiscal Impact:

The fiscal impact is unknown at this time. Once the District and the City begin amending the wholesale agreement there will be legal counsel fees for review purposes.

Strategic Plan Alignment:

Water Supply – 1.B. Provide for the long-term future needs of the District through prudent planning that will ensure sufficient capacity to serve all customers.

Water Supply – 1.D. Manage the District’s water supplies to ensure their quality and quantity.

If the District were to secure an additional water supply, along with lowering the cost per af, this is benefit to the customers in terms of water supply reliability, conjunctive use, and cost of surface water.