



## STAFF REPORT

**TO:** Board of Directors  
**THRU:** Mark Foree, General Manager  
**FROM:** Scott Estes, Director of Engineering  
**DATE:** June 6, 2016  
**SUBJECT:** **Second and Final Reading, Public Hearing and possible adoption of Resolution No. 242 to amend TMWA Rate Schedule Water System Facility Charges (WSF) for Charge Area 10**

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### Recommendation

Staff submits for Second Reading and adoption by resolution the proposed amendments to the TMWA Rate Schedule WSF to Modify Charge Area 10 Facility Charges and Boundaries. The proposed amendments result in changes to the Storage Facility Unit Cost and elimination of Charge Areas 8A, 13 and 13B since these Areas will be incorporated into the new Area 10. Proposed amendments are shown in the attached redline copies.

**Possible Motion:** “I move to adopt Resolution 242 and to amend TMWA’s Rate Schedule WSF to modify Charge Area 10 Facility Charges and Boundaries by consolidating Charge Areas 8A, 13 and 13B into the new Area 10 and to modify the Storage Facility Charges, to be effective upon the start of business day June 16, 2016.”

### Summary

- WSF charges are paid by new development to reimburse TMWA for the cost of water system improvements that provide capacity to serve growth.
- The new Lemmon Drive 24-inch main integrates the North Valleys Importation Project’s 8,000 acre feet of Honey Lake groundwater resources from the Fish Springs Ranch into all of the North Valleys Areas.
- The Fish Springs resource is the future source of supply for growth in the North Valleys.
- Consistent application of the existing Fish Springs Area Charge is complicated by the location of the new development.
- The existing Stead and Lemmon Valley systems will provide a peaking supply to allow full utilization of the Fish Springs resource, so TMWA should continue to collect facility charges on previous investment in those facilities.

### **Background**

WSF charges are paid by new development to reimburse TMWA for the cost of water system improvements that provide capacity to serve growth. WSF charges do not impact existing customers or customer rates. When the original WSF charges for former Washoe County water utility service areas were approved by the Board in October 2014, it seemed logical to maintain separate facility charge areas for Lemmon Valley and Horizon Hills because the systems were operated separately from the TMWA's North Virginia and Stead-Silver Lake systems. Likewise, the development of the existing Fish Springs charge was based on the new facilities that would be necessary to integrate the resource into the Lemmon Valley system. Since that time staff has analyzed and developed many water facility plans for proposed development in the North Valleys and it has become evident that the Fish Springs resource will be used throughout the area and not just for development in Lemmon Valley.

### **Discussion**

As noted above, the existing Fish Springs Area charge will not accurately reflect the system facilities used to supply the development if the project was located in areas other than Lemmon Valley. Area charges are supposed to reflect the cost of the facilities required to provide the requested service. There are several considerations that resulted in staff's recommendation. First, completion of the North Valleys Integration Project (29,000 feet of 24-inch pipe from Lemmon Drive and Waterash in northern Lemmon Valley to North Virginia Street south of US-395) and interties to that pipeline will allow Fish Springs water to be supplied to all North Valley Areas. Second, at some point in the future (when more than 4,900 acre feet has been committed for new demands) the Fish Springs resource will require a supplemental maximum day peaking supply to support the base level supply. This peak source will come from TMWA's groundwater sources in the North Valleys and/or imported TMWA surface water supplied through the TMWA and Lemmon Valley distribution systems. Third, there are very few Truckee River resources available for commitment in the area and the Lemmon Valley groundwater resources have been committed to existing development. Lastly, by the end of FY 2017, TMWA will have invested over \$23 million in capacity/supply improvements which benefits growth in the Stead-Lemmon Valley area. Therefore, since growth will be served predominantly with Fish Springs' resources regardless of location in the North Valleys, it is logical to establish one Area fee that reflects the integrated systems that will deliver the water and provide the required peaking capacity.

As part of the public process associated with proposed changes to TMWA Rate Schedules and Rules, TMWA conducted a public workshop on this subject on May 10, 2016 at 6 p.m. at the TMWA corporate office which was attended by three people. TMWA also made a presentation to the Builder's Association of Northern Nevada (BANN) on May 19, 2016. In addition, the red-line version of Rate Schedule WSF has been posted to TMWA's website since early May. No significant comments have been received to date. TMWA will also make a presentation to the Standing Advisory Committee (SAC) at their meeting on June 7, 2016.

**TRUCKEE MEADOWS WATER AUTHORITY**

**RESOLUTION NO. 242**

**A RESOLUTION ADOPTING AMENDMENTS TO TRUCKEE MEADOWS WATER AUTHORITY’S SCHEDULE WSF “WATER SYSTEM FACILITIES”**

**WHEREAS**, upon its formation, the Truckee Meadows Water Authority (“the Authority”) adopted Rules of Service on March 28, 2001, and such Rules have been modified and revised subsequent to the formation of TMWA;

**WHEREAS**, after conducting a review of its rate schedules, the Authority has revised and amended Rate Schedule WSF from time to time to meet the needs of its business environment by ensuring appropriate cost recovery through its fees and rates;

**WHEREAS**, the Authority’s Board desires to amend the Authority’s Rate Schedule WSF to update the fees charged for services rendered and facilities constructed as more fully described in Exhibit 1 attached hereto and incorporated herein by reference;

**WHEREAS**, the revisions to Rates Schedule forth in Exhibit 1 attached hereto and incorporated herein are appropriate and justified;

**NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE TRUCKEE MEADOWS WATER AUTHORITY DOES RESOLVE:**

The revisions to Rate Schedule WSF as set forth in Exhibit 1 are approved and adopted effective the start-of-business day June 16, 2016.

Upon motion of \_\_\_\_\_, seconded by \_\_\_\_\_, the foregoing Resolution was passed and adopted this 15th day of June, 2016, by the following vote of the Board:

Ayes: \_\_\_\_\_

Nays: \_\_\_\_\_

Abstain: \_\_\_\_\_ Absent: \_\_\_\_\_

(Signature page follows)

Truckee Meadows Water Authority  
Resolution No. 242  
Approved this 15th day of June, 2016

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Chairman

STATE OF NEVADA,        )  
                                  : ss.  
COUNTY OF WASHOE     )

On this \_\_\_\_\_ day of June, 2016, Geno Martini, Chairman of the Board of Truckee Meadows Water Authority, personally appeared before me, a Notary Public in and for said County and State, and acknowledged that he executed the above instrument freely and voluntarily and for the purposes therein mentioned.

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Notary Public

## Truckee Meadows Water Authority

### RATE SCHEDULES

#### WSF – WATER SYSTEM FACILITY CHARGES

#### APPLICABILITY

Pursuant to procedures set forth in Rule 5, Applicants for new Service or Modified Service to a Service Property(ies) are subject to Water System Facility (WSF) Charges. WSF Charges are based on the Maximum Day Demand estimated in gallons per minute (GPM) by the Authority to serve the Service Property(ies) multiplied by the following Unit Costs. WSF Charges will be assessed where applicable and as identified in the Water Service Agreement.

#### A. Area Facility Unit Cost by Charge Area

	<u>Charge Area</u>	<u>Amount</u>	
0	Central Reno	\$0.00	per GPM
1	South Truckee Meadows	\$958.00	per GPM
2	Sparks-East Reno	1,711.00	per GPM
2A	Sparks-Inside McCarran Blvd	856.00	per GPM
3	Northwest Reno – Northgate/Mogul	1,575.00	per GPM
4	Sparks – Pyramid/Spanish Springs	2,877.00	per GPM
5	Sparks – The Vistas	4,555.00	per GPM
6	Sun Valley-Sullivan Pump Zones	1,309.00	per GPM
7	Verdi	TBD	
8	Sierra-North Virginia Pump System	<del>4,1684,142.00</del>	per GPM
<del>8A</del>	<del>Horizon Hills</del>	<del>4,023.00</del>	<del>per GPM</del>
9	Lakeridge-Plumas Pump System	1,838.00	per GPM
10	Stead—Silver Lake— <del>Lemmon</del> <u>Valley</u>	<del>5,6235,057.00</del>	per GPM
11	Southeast Truckee Meadows	2,828.00	per GPM
12	Spanish Springs	5,789.00	per GPM
<del>13</del>	<del>Lemmon Valley</del>	<del>2,734.00</del>	<del>per GPM</del>
13A	Heppner*	1,011.00	per GPM
<del>13B</del>	<del>Fish Springs</del>	<del>4,237.00</del>	<del>per GPM</del>
14	STMGID West/Thomas Creek	655.00	per GPM
15	Arrowcreek/Mt. Rose**	12,568.00	per GPM

Where a Service Property is not located within an established Charge Area described above or where the Area Facility Unit Cost for that Charge Area has not been established, applicable Area Facility Unit Costs shall be determined by Authority on a case by case basis and may include charges for on-site and off-site improvements, including Oversizing Costs, to integrate new Water System Facilities or to connect to, expand, relocate or alter existing water Facilities, determined by the Authority as necessary to facilitate annexation of the Service Property into the Authority's Retail Service Area and/or development of the Charge Area or Charge Area Unit Cost to be established, as set forth in the Annexation Agreement or Water Service Agreement between Applicant and Authority.

\* Charge Area 13A is subject to an additional charge of \$5,490.00 per lot for on-site distribution improvements.

\*\* Component of fee includes estimated costs of acquiring supplemental resource supply. Fee may be reduced to \$7,618.00 upon Applicant dedication of an acceptable combination of groundwater and creek water rights to satisfy supplemental conjunctive use supply as determined by the Authority pursuant to its Rule 7.

Added: 06/18/03 Amended: 10/01/03; 01/21/04; 03/01/05; 10/18/06; 03/01/08; 05/21/09; 05/21/10; 06/19/13; 10/15/14; 01/01/15; 05/21/15

## Truckee Meadows Water Authority

## RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES

## B. Supply and Treatment Facility Unit Cost By Charge Area

“Supply and Treatment Facility Unit Cost” is the unit cost in dollars per GPM of Maximum Day Demand, representing the cost to construct and finance supply/treatment improvements identified in the Authority’s facility plan.

	<u>Charge Area</u>	<u>Amount</u>	
0	Central Reno	\$4,163.00	per GPM
1	South Truckee Meadows	4,163.00	per GPM
2	Sparks-East Reno	4,163.00	per GPM
2A	Sparks-Inside McCarran Blvd	4,163.00	per GPM
3	Northwest Reno – Northgate/Mogul	4,163.00	per GPM
4	Sparks – Pyramid/Spanish Springs	4,163.00	per GPM
5	Sparks – The Vistas	4,163.00	per GPM
6	Sun Valley-Sullivan Pump Zones	4,163.00	per GPM
7	Verdi	TBD	per GPM
8	Sierra-North Virginia Pump System	4,163.00	per GPM
<del>8A</del>	<del>Horizon Hills</del>	<del>4,163.00</del>	<del>per GPM</del>
9	Lakeridge-Plumas Pump System	4,163.00	per GPM
10	Stead—Silver Lake- <u>Lemmon Valley*</u>	4,163.00	per GPM
11	Southeast Truckee Meadows	4,163.00	per GPM
12	Spanish Springs	4,163.00	per GPM
<del>13</del>	<del>Lemmon Valley</del>	<del>0.00</del>	<del>per GPM</del>
13A	Heppner	0.00	per GPM
<del>13B</del>	<del>Fish Springs</del>	<del>0.00</del>	<del>per GPM</del>
14	STMGID West/Thomas Creek	4,163.00	per GPM
15	Arrowcreek/Mt. Rose	0.00	per GPM

\* For Area 10 growth dedicating Fish Springs groundwater resources, the Supply-Treatment Facility Unit Cost is 0 (zero).

## Truckee Meadows Water Authority

## RATE SCHEDULES

WSF – WATER SYSTEM FACILITY CHARGES

## C. Storage Facility Unit Cost By Charge Area

“Storage Facility Unit Cost” is the unit cost in dollars per GPM of Maximum Day Demand, representing the cost to construct and finance storage improvements identified in the Authority’s facility plan.

	<u>Charge Area</u>	<u>Amount</u>	
0	Central Reno	\$ <del>933772</del> .00	per GPM
1	South Truckee Meadows	<del>933772</del> .00	per GPM
2	Sparks-East Reno	<del>933772</del> .00	per GPM
2A	Sparks-Inside McCarran Blvd	<del>933772</del> .00	per GPM
3	Northwest Reno – Northgate/Mogul	<del>933772</del> .00	per GPM
4	Sparks – Pyramid/Spanish Springs	<del>933772</del> .00	per GPM
5	Sparks – The Vistas	<del>933772</del> .00	per GPM
6	Sun Valley-Sullivan Pump Zones	<del>933772</del> .00	per GPM
7	Verdi	TBD	per GPM
8	Sierra-North Virginia Pump System	<del>933772</del> .00	per GPM
<del>8A</del>	<del>Horizon Hills</del>	<del>0.00</del>	<del>per GPM</del>
9	Lakeridge-Plumas Pump System	<del>933772</del> .00	per GPM
10	Stead – Silver Lake- <del>Lemmon Valley</del>	<del>9330</del> .00	per GPM
11	Southeast Truckee Meadows	0.00	per GPM
12	Spanish Springs	0.00	per GPM
<del>13</del>	<del>Lemmon Valley</del>	<del>0.00</del>	<del>per GPM</del>
13A	Heppner	0.00	per GPM
<del>13B</del>	<del>Fish Springs</del>	<del>0.00</del>	<del>per GPM</del>
14	STMGID <del>West</del> /Thomas Creek	0.00	per GPM
15	Arrowcreek/Mt. Rose	0.00	per GPM

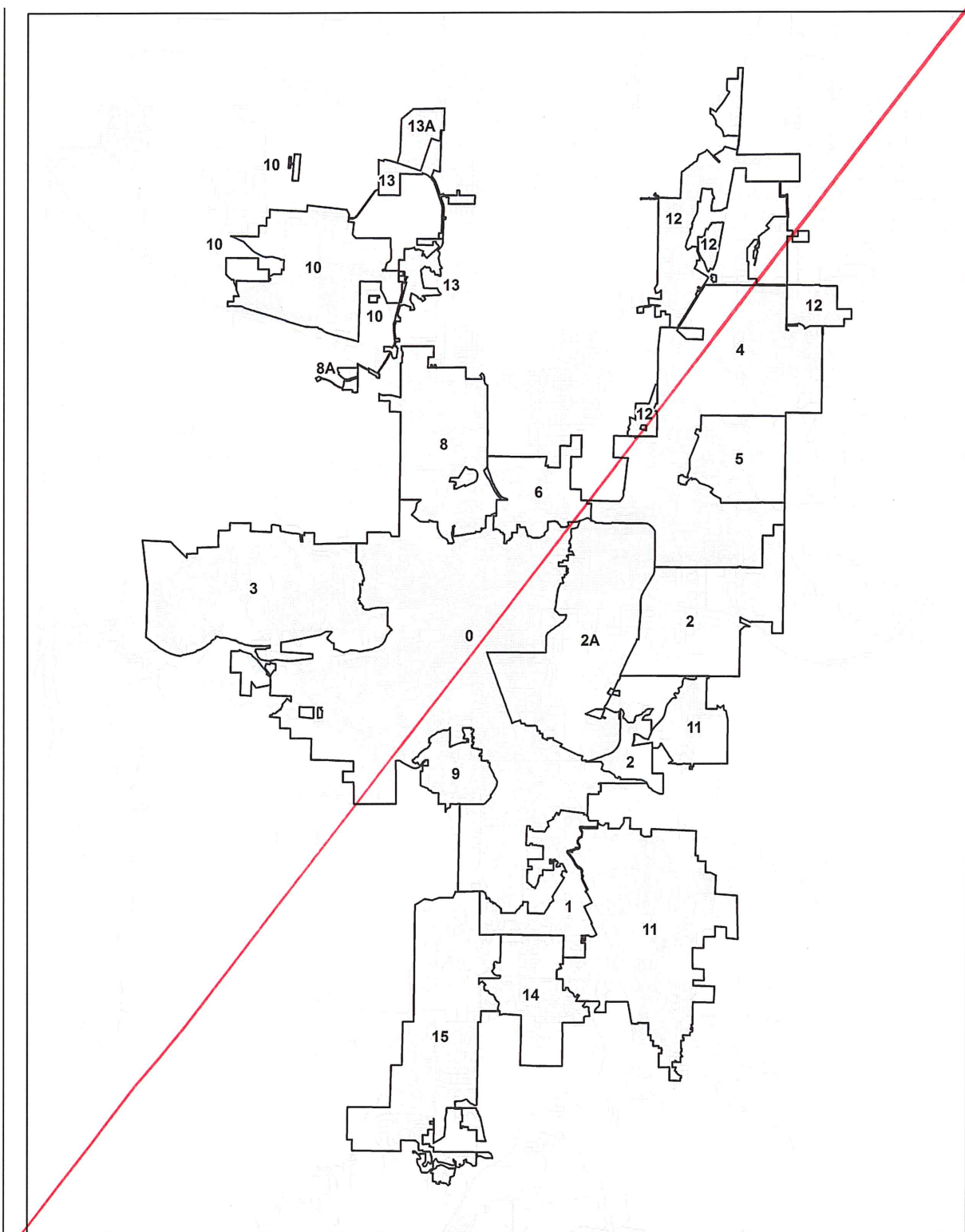
NOTE: The following map depicts only approximate boundaries of the Charge Areas because the Authority’s distribution system undergoes frequent modification, Charge Area boundaries are subject to frequent adjustment and the exact boundaries of the Charge Areas shall be maintained by and may be adjusted from time to time by the General Manager of the Authority. The Authority attempts to keep a current map posted on its website, at [www.tmwa.com](http://www.tmwa.com); however, this map may not show sufficient detail to depict Charge Areas precisely. Pursuant to Rule 5 the Authority will determine the Charge Area and associated Area Facility charges to serve the Applicant’s Service Property(ies) at the time of application based on the most current Charge Area boundary information maintained by the General Manager of the Authority.

Truckee Meadows Water Authority

*EXISTING*

**RATE SCHEDULES**

**WSF – WATER SYSTEM FACILITY CHARGES**



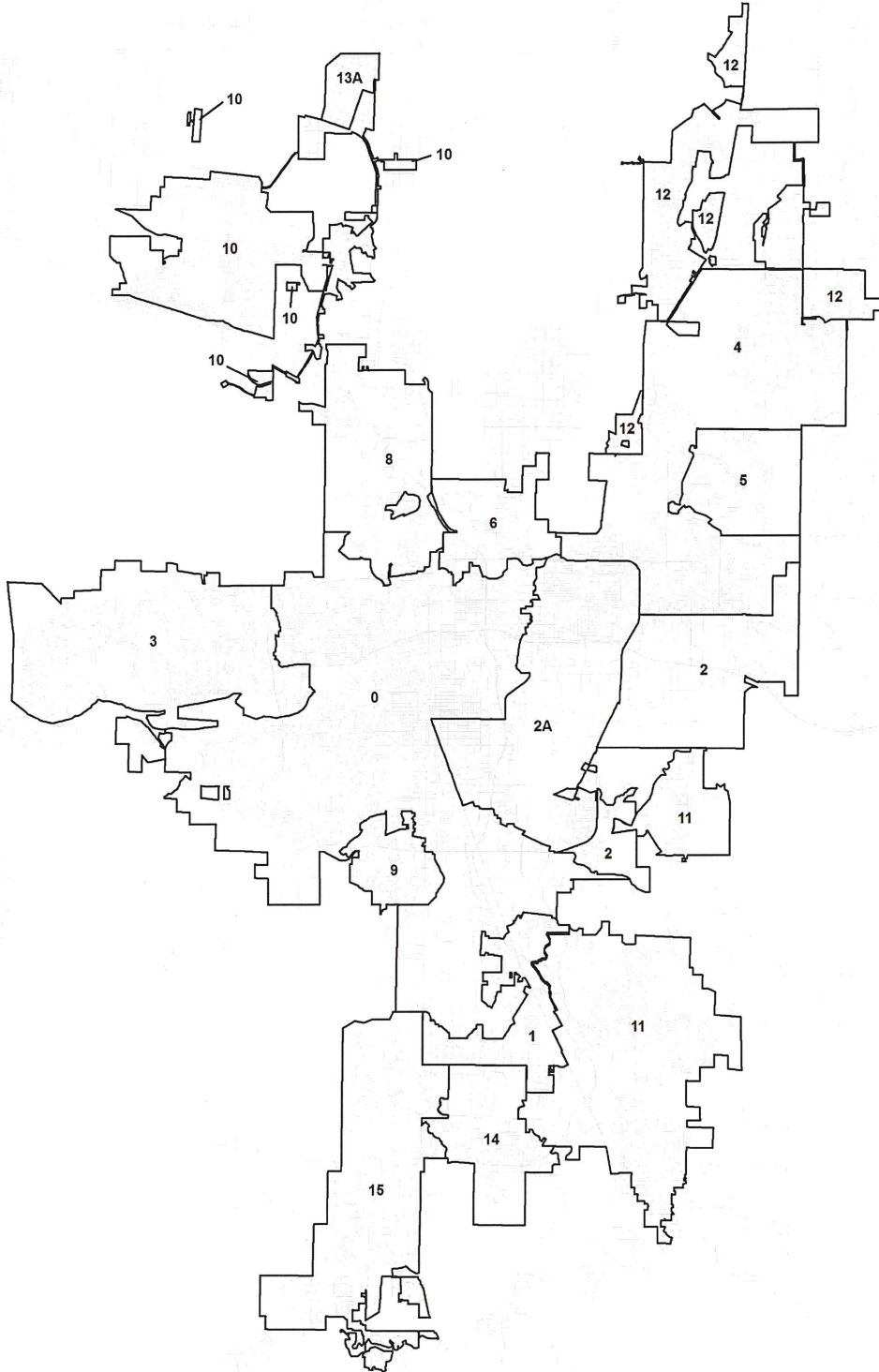
Added: 01/01/15; 05/21/15

Truckee Meadows Water Authority

*PROPOSED*

**RATE SCHEDULES**

**WSF – WATER SYSTEM FACILITY CHARGES**



Added: 01/01/15; 05/21/15

## North Valleys Area Facility Charges:

All Fees are \$\$ per Max Day GPM unless noted otherwise

### Existing Fees

	Area 8A <u>Horizon Hills</u> <sup>3</sup>	Area 8 <u>No. Virginia</u>	Area 10 <u>Stead</u>	Area 13 <u>Lem. Valley</u>	Area 13A <u>Heppner</u> <sup>1</sup>	Area 13B <u>Fish Springs</u>
Area Fee	\$4,023	\$4,168	\$5,623	\$2,734	\$6,804	\$4,237
TMWA Storage Fee	\$0	\$933	\$933	\$0	\$0	\$0
TMWA Supply-Treatment Fee	\$4,163	\$4,163	\$4,163	\$0	\$0	\$0
<b>Total Connection Fee</b>	<b>\$8,186</b>	<b>\$9,264</b>	<b>\$10,719</b>	<b>\$2,734</b>	<b>\$6,804</b>	<b>\$4,237</b>
Total Per 6K SF SFR	\$5,730	\$6,485	\$7,503	\$1,914	\$4,763	\$2,966

### Notes:

1. Heppner Fee is based on 1.3 GPM/lot and includes a per LOT fee for local "subdivision" improvements (currently \$5,490).

### Proposed Fees

	Area 8 <u>No. Virginia</u>	Combined Area 8A+10+13+13B Area 10 <u>Stead-Silver Lake</u> <sup>1,2</sup>	Area 13A <u>Heppner</u> <sup>3</sup>
New Area Fee	\$4,142	\$5,057	\$6,804
New TMWA Storage Fee	\$772	\$0	\$0
TMWA Supply-Treatment Fee	\$4,163	\$4,163	\$0
<b>Total Connection Fee</b>	<b>\$9,077</b>	<b>\$9,220</b>	<b>\$6,804 per lot</b>
Total Per 6K SF SFR	\$6,354	\$6,454	

### Notes:

1. For Area 10 service dedicating Fish Springs resources, TMWA S-T Fee = 0
2. Area 8 & 10 Fees include a finance charge
3. Heppner Fee is based on 1.3 GPM/Lot and includes a per Lot fee for local "subdivision" improvements (currently \$5,490).

**AREA 10 FEE**

Updated Through June 30, 2012

**Consolidate Areas 8A, 10, 13**

**Proposed-Corrected**

Actual Costs to Date: \$13,503,644

**Improvements:**

Project	FY	Total Cost	Exist. Cust.	New Growth	Cost to Growth	Comments
Silver Lake Main Imp.	2005	\$ 985,208	0.000	1.000	\$ 985,208	actual costs
Stead/Peavine Mains - 395 Bore	2005	\$ 965,659	0.751	0.249	\$ 239,986	actual costs
Raleigh-Stead Recharge Main	2007	\$ 1,524,433	0.000	1.000	\$ 1,524,433	actual costs
Stead-N.Virginia Backbone	2008	\$ 29,584,852	0.439	0.158	\$ 4,679,367	actual costs
Horizon Hills BPS Land	2003	\$ 193,000	0.00	1.00	\$ 193,000	actual costs
Horizon Hills Tank #2	2008	\$ 1,744,000	0.00	1.00	\$ 1,744,000	actual costs
Silver Lake Parallel Main	2010	\$ 331,347	0.000	1.000	\$ 331,347	actual costs
Lemmon Valley Well #9	2003	\$ 530,000	0.000	1.000	\$ 530,000	actual costs
Well #9 Genset	2003	\$ 104,000	0.000	1.000	\$ 104,000	actual costs
Cunningham Way Imp.	2006	\$ 97,000	0.000	1.000	\$ 97,000	actual costs
Lemmon Valley Water Mains	2008	\$ 441,000	0.000	1.000	\$ 441,000	actual costs
Raleigh Heights #3	2008	\$ 1,861,178	0.000	1.000	\$ 1,861,178	1/2 of actual costs to Stead
Well #9 Electrical Power	2015	\$ 52,000	0.000	1.000	\$ 52,000	actual costs
Bravo Intertie (Fish Springs)	2014	\$ 721,125	0.000	1.000	\$ 721,125	actual costs
Lemmon Drive Main	2016	\$ 12,820,000	0.172	0.828	\$ 10,611,015	actual pipe bid + 5 PRS's based on actual low bid
N.Virginia 18" (Lemmon-GV Dr)	2016	\$ 1,212,000	0.751	0.249	\$ 301,206	Fish Springs C02 System
pH Adjustment Facilities	2017	\$ 250,000	0.000	1.000	\$ 250,000	
Raleigh-Stead Gravity Main	2017	\$ 4,933,000	0.751	0.249	\$ 1,225,949	
Highland Gravity Mains	20xx	\$ 3,389,600	0.000	0.040	\$ 135,584	
Stead Golf Course Main Repl	20xx	\$ 2,192,800	0.776	0.224	\$ 491,187	assumes 14" repl.
Paloma BPS Repl.	20xx	\$ 500,000	0.000	1.000	\$ 500,000	repl. w/PRS & main off FS
Replace LV Well #8	20xx	\$ 1,250,000	0.800	0.200	\$ 250,000	assume 20% capacity increase
Lemmon Valley Tank #4	20xx	\$ 2,205,000	0.000	1.000	\$ 2,205,000	2 MG tank w/feeder main
Stead	20xx	\$ 2,000,000	0.000	1.000	\$ 2,000,000	2 MG steel tank
Fish Springs Tank #2	20xx	\$ 2,000,000	0.000	1.000	\$ 2,000,000	2.5 MG tank on exist. Pad
Peaking Wells	20xx	\$ 2,000,000	0.000	1.000	\$ 2,000,000	2 wells at 900 GPM each

<b>Total Cost of Improvements:</b>	<b>\$ 73,887,202</b>	<b>\$35,473,586</b>
<b>Less Area Fees Collected:</b>		\$ (4,400,136) (thru 6/30/12)
<b>Plus Finance Charges Collected:</b>		\$ 29,691 (area 10 + area 13)
<b>Balance Remaining:</b>		<b>\$31,103,141</b>

<b>GPM added since last fee adjustment:</b>	0	GPM
<b>Finance charges collected since last adjust.:</b>	\$	-

**Max Day Demands:**

Available Supply	7,090	gpm	(2380+6500-1790)
Area 10 Sales	(472)		(thru 6/30/12)
Net Remaining GPM	6,618	gpm	

**PROPOSED AREA 10 FEE =  $\frac{\$31,103,141}{6618 \text{ GPM}}$  = \$4700 /GPM (no finance charge)**

Use Existing Area 10 Fee Deficit =  $\frac{\$2,364,172}{6618 \text{ GPM}}$  = \$357 (prelim. finance charge)

**PROPOSED AREA 10 FEE = \$5057 /GPM (w/finance charge)**

**AREA 8 FEE**

Updated Through June 30, 2012

**Proposed**

Actual Costs to Date: \$13,101,020

**Improvements:**

<u>Project</u>	<u>FY</u>	<u>Total Cost</u>	<u>Exist. Cust.</u>	<u>New Growth</u>	<u>Cost to Growth</u>	<u>Comments</u>
Previous PS Rebuilds	2002	\$ 545,492	0.00	1.00	\$ 545,492	actual costs
N.Virginia Parallel Main	2003	\$ 639,762	0.00	1.00	\$ 639,762	actual costs
Stead-N.Virginia Backbone	2008	\$11,915,766	0.00	1.00	\$11,915,766	actual costs
Highland Gravity Mains	20xx	\$ 3,389,600		0.09	\$ 307,307	

**Total Cost of Improvements:****\$13,408,326****Less Area 8 Fees Collected:**

\$ (6,790,656) (thru 6/30/12)

**Plus Finance Charges Collected:**\$ 526,050**Balance Remaining:****\$ 7,143,720****GPM added since last fee adjustment:**

1169 GPM

**Finance charges collected since last adjust.:**

\$ 526,050

**Max Day Demands:**

2003-2025 WFP Growth	4,660	gpm	
Area 8 Sales	<u>(2,562)</u>		(thru 6/30/12)
Net Remaining GPM	2,098	gpm	

**AREA 8 FEE** =  $\frac{\$7,143,720}{2098 \text{ GPM}}$  = **\$3405 /GPM** (no finance charge)

= \$737 (exist. fin. charge)

**PROPOSED AREA 8 FEE** = **\$4142 /GPM** (w/finance charge)

**N.Virginia-Stead Backbone Facilities and Costs:**

<u>Facility</u>	<u>Cost</u>	
Transmission Mains	\$22,079,227	(actual costs)
N.Virginia-Stead P.S.	<u>\$7,505,625</u>	(actual costs)
<b>Total</b>	<b>\$29,584,852</b>	

**Demand Summary and Allocation of Backbone Costs:**

<u>User/Category</u>	<u>MDD (gpm)</u>	<u>Percent</u>	<u>Allocation</u>
N.Virginia Existing	2540	22.0%	\$6,494,859
Area 8 Growth	4660	40.3%	\$11,915,766
Area 8A Growth	990	8.6%	\$2,531,461
Stead <sup>(1)</sup>	<u>3380</u>	<u>29.2%</u>	<u>\$8,642,766</u>
	11570	100.0%	\$29,584,852

(1) Includes Stead demand delivered through the Stead Main only.

**STORAGE FACILITY CHARGE**

Updated Through June 30, 2012

**Modified**

Actual Costs to Date: \$ 17,856,073

**Improvements:**

Project	FY	Size (MG)	Type	Total Cost	Exist. Cust.	Develop. Dedicate	Future Growth	Cost to Growth	Uncollectable GPM <sup>(1)</sup>
Spanish Springs	2002	4.00	PSC	\$ 5,101,474	0.46	0.00	0.54	\$ 2,754,796	
Northgate #3	2002	1.90	STL	\$ 1,312,937	0.55	0.00	0.45	\$ 590,822	
Vaughn Mill	2004	1.20	STL	\$ 1,228,438	0.80	0.00	0.20	\$ 245,688	
Somersett #1	2005	2.10	PSC	\$ 2,530,406	0.00	0.00	1.00	\$ 2,530,406	
Somersett #2	2005	1.00	STL	\$ -	0.00	0.93	0.07	\$ 61,410	400
Beaumont	2005	1.25	STL	\$ 2,340,653	0.51	0.29	0.20	\$ 468,131	212
D'Andrea	2006	1.25	STL	\$ -	0.21	0.79	0.00	\$ 17,256	656
Vista #2	2006	1.50	STL	\$ 1,979,696	0.27	0.00	0.73	\$ 1,445,178	
Ridgeview	2007	1.50	PSC	\$ 5,531,292	0.89	0.00	0.11	\$ 608,442	
Vista #3	2007	0.80	STL	\$ -	0.26	0.74	0.00	\$ 58,017	585
Pyramid	2008	4.00	STL	\$ 4,844,749	0.00	0.00	1.00	\$ 4,844,749	
Raleigh Heights #3	2008	4.00	STL	\$ 1,861,178	0.00	0.00	1.00	\$ 1,861,178	
The Ridges	2008	0.90	STL	\$ -	0.55	0.45	0.00	\$ 236,089	134
Hunter Creek Gravity	2009	4.00	STL	\$ 4,267,824	0.50	0.00	0.50	\$ 2,133,912	
NEST Fdr Main Rel.	2017			\$ 840,000	0.00	0.00	1.00	\$ 840,000	
Sun Valley #2	2018	1.25	STL	\$ 1,670,000	0.67	0.00	0.33	\$ 551,100	
Somersett #3	2021	0.50	STL	\$ -	0.00	0.00	1.00	\$ -	18
Highland Gravity	2022	4.00	PSC	\$ 9,000,000	0.50	0.00	0.50	\$ 4,500,000	
Rattlesnake	2023	1.00	STL	\$ 1,000,000	0.00	0.00	1.00	\$ 1,000,000	
Copper Canyon #1	20xx	2.00	STL	\$ -	0.00	1.00	0.00	\$ -	530
Caughlin #2	20xx	1.50	PSC	\$ 1,440,000	0.90	0.00	0.10	\$ 144,000	
Copper Canyon #2	20xx	1.00	STL	\$ -	0.00	1.00	0.00	\$ -	700
Copper Canyon #3	20xx	0.50	STL	\$ -	0.00	1.00	0.00	\$ -	200
The Pines	20xx	0.50	STL	\$ -	0.00	1.00	0.00	\$ -	398
Northgate #4	20xx	0.75	STL	\$ -	0.00	1.00	0.00	\$ -	500
Beaumont #2	20xx	0.50	STL	\$ -	0.00	1.00	0.00	\$ -	334

**Total Storage Costs:** \$ 24,891,173      **4667**  
**Less Storage Fees Collected (thru 6-30-12):** \$ (10,374,673)  
 Plus Financing Component of Fees Collected = GPM x Finance Component      \$1,605,893  
**Balance Remaining:** \$ 16,122,393

**Max Day Demands:**

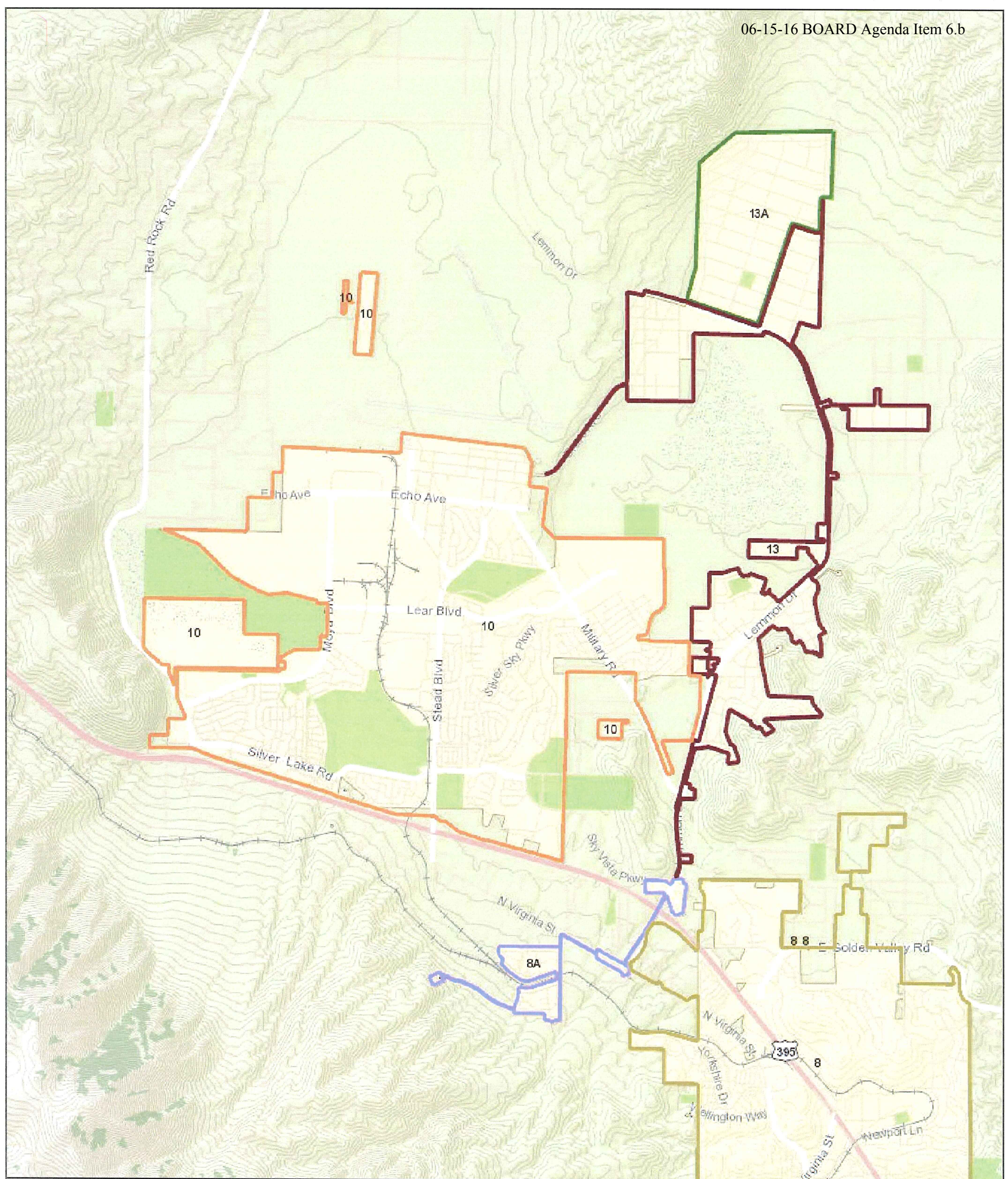
2003-2025 WFP Growth	37,953	gpm	
Developer Build-Dedicate GPM <sup>(1)</sup>	(4,667)		(from above)
GPM Added/Sales	(9,297)		(thru 6/30/12)
Net Remaining GPM	23,989	gpm	

**STORAGE FACILITY CHARGE** = \$16,122,393 = **\$672 /GPM** (no finance charge)  
**UNIT COST** 23989 GPM

Use Existing Storage Finance Charge = \$100

**REVISED STORAGE FACILITY CHARGE** = **\$772** (w/finance charge)

(1) Build & dedicate storage projects will serve some of that demand but will not pay storage fees since they are providing their own storage.



**NORTH VALLEYS**  
**EXISTING FEE AREAS**

DATE: May 16, 2016  
 MAP BY:  
 WORK ORDER #:  
 SCALE: NTS

