

Water and Sewer Rates in the Carson River Watershed

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Carson Water Subconservancy District

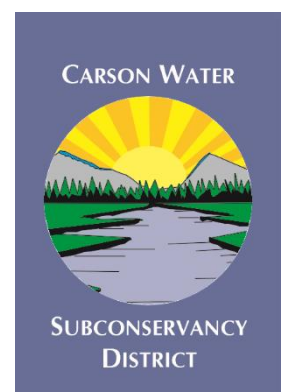


Table of Contents

Introduction:	5
Summary of Water Rate Changes:	7
Summary of Sewer Rate Changes:	8
References:	8
Appendix A: Water Rate Sheets	9
Carson City Water Rates	1
Churchill County Water Rates	2
Douglas County Water Rates	3
City of Fallon Water Rates	4
Gardnerville Ranchos GID Water Rates	5
Gardnerville Water Company Water Rates	6
Indian Hills GID Water Rates	7
Lyon County – Dayton and Moundhouse Water Rates	8
Town of Minden Water Rates	9
Silver Springs Mutual Water Company Water Rates	10
Stagecoach GID Water Rates	11
Storey County Water Rates	12
Appendix B: Sewer Rate Sheets	1
Carson City Sewer Rates	2
Churchill County Sewer Rates	3
Douglas County Sewer Rates	4
City of Fallon Sewer Rates	5
Gardnerville Ranchos GID Sewer Rates	6
Gardnerville Water Company Sewer Rates	7
Indian Hills GID Sewer Rates	8
Lyon County – Dayton and Moundhouse Sewer Rates	9
Minden Gardnerville Sanitation Sewer Rates	10
Lyon County – Silver Springs GID Sewer Rates	11
Stagecoach Sewer Rates	12
Storey County Sewer Rates	13

Introduction:

The central purpose of Carson Water Subconservancy District's (CWSD) advisory report "Water and Sewer Rates in the Carson River Watershed" is to collect and publish the water and sewer rates of the 13 major water purveyors in our watershed. This report is made available to each water purveyor and to the general public via our website www.cwsd.org.

We appreciate the time and effort water purveyor staff members in providing and checking the data in this report:

Table 1.1 Major Water Purveyors in the Carson River Watershed

Carson City Public Works	Lyon County Utilities
Churchill County Public Works	Town of Minden
Douglas County Public Works	Minden Gardnerville Sanitation District
City of Fallon	Silver Springs Mutual Water Company
Gardnerville Ranchos General Improvement District	Stagecoach General Improvement
District Gardnerville Water Company	Storey County Public Works
Indian Hills General Improvement District	

This report includes a water data sheet followed by a sewer data sheet for each water purveyor. On the water rate data sheet, general information about each water entity includes:

- ✓ service area population
- ✓ annual demand
- ✓ total service connections separated into customer classes
- ✓ percentage of metered and unmetered connections
- ✓ Number of re-use connections
- ✓ bill frequency
- ✓ unidentified system losses
- ✓ if entity has a conservation plan and reason for doing so
- ✓ date the current water rate became effective

Water rates include base rate and volume charge for water for both residential and commercial users. In addition, connection fees and storm water fees are also listed if applicable.

There were a couple of rate structure changes as of January 2018. For water purveyors across the country, costs are approximately 70% fixed and 30% variable. On the other hand, approximately 30% of income is fixed with 70% variable income (Spang et al, 2015). As a result, water purveyors are challenged with providing consistent service within budgeted amounts while income can fluctuate widely.

Carson City and Douglas County addressed this challenge by changing their rate structures. Both water departments kept three tiers of rates for its residential customers but changed the usage charge per 1000 gallons from three tiers to one tier for their other rate classes.

Regarding infrastructure changes in 2017, Gardnerville Ranchos General Improvement District installed water meters on 100% of their connections. The Town of Minden continues to increase the numbers of metered connections. Whenever an existing home is bought or a new home is built, a water meter is installed.

Each water purveyor determines their service area population differently; therefore, they are footnoted (see Table 1.2) to reflect how it was determined. Those four methods include 2010 US Census data; Nevada State demographer's 2014 estimate; Water Purveyor's internal data or or the actual population served based on connections X multiplier (e.g. 273×2.5).

Minden Gardnerville Sanitation District (MGSD) provides sewer service to Gardnerville Ranchos General Improvement District, Gardnerville Water Company, and Town of Minden. MGSD bills Gardnerville and Minden residents directly. However, Gardnerville Ranchos General Improvement District, through an agreement with MGSD, collects sewer fees. The Stagecoach General Improvement District service area only has septic systems; therefore, sewer rates are not applicable. Lyon County provides sewer service in two areas of the county: Dayton, Moundhouse area and within Silver Springs Mutual Water Company's service area.

Summary of Water Rate Changes:

The majority of water purveyor's water rates increased over the past year. Several water purveyors have water rate increases that have been approved for multiple years by their respective boards. Of these, a few will be returning to their boards to approve rates over the next two years. Carson City's last water rate change was voted on in 2013 with annual increases on 7/1 through June 30, 2018. Lyon County's water rates in Dayton and Moundhouse will increase annually on 7/1 through 6/30/2019. Douglas County's water rates will also increase annually on 7/1 through 6/30/2019.

Table 2.1 Summary of Water Rate Changes

Changed Water Rates		
Water Purveyor	Date of Rate Change Vote	Approved Annual Increase Date
Carson City Public Works	7/1/2015	Increases July 1 annually through 6/30/2018
Churchill County Public Works	1/1/2015	2.5% Annual Increase Effective 1/1
Douglas County Public Works	7/1/2015	Increases July 1 annually through 6/30/2019
Indian Hills General Improvement District	8/1/2015	Increase annually 9/1 through 6/30/2019
Lyon County Utilities	7/1/2015	Increase annually 7/1 through 6/30/2019.
Stagecoach General Improvement District	1/1/2015	Increase annually 1/1 per Social Security Increase
Storey County Public Works	7/1/2015	Until rate matches neighboring counties

Unchanged Water Rates

City of Fallon
Gardnerville Ranchos General Improvement District
Gardnerville Water Company
Town of Minden
Minden Gardnerville Sanitation District
Stagecoach General Improvement District

Summary of Sewer Rate Changes:

The majority of sewer entity rates increased over the past year. Several water purveyors have sewer rate increases that have been approved for multiple years by their respective boards.

Table 3.1

Changed Sewer Rates		
Water Purveyor	Date of Rate Change Vote	Approved Annual Increase Date
Carson City Public Works	7/1/2015	Increases July 1 annually through 6/30/2018
Churchill County Public Works+	1/1/2015	2.5% Annual Increase Effective 1/1
Douglas County Public Works	7/1/2015	Increases July 1 annually through 6/30/2019
Indian Hills General Improvement District	8/1/2015	Increase annually 9/1 through 6/30/2019
Lyon County Utilities	7/1/2015	Increase annually 7/1 through 6/30/2019.
Stagecoach General Improvement District	1/1/2015	Increase annually 1/1 per Social Security Increase
Storey County Public Works	7/1/2015	Until rate matches neighboring counties

Unchanged Sewer Rates

City of Fallon
Gardnerville Ranchos General Improvement District
Gardnerville Water Company
Town of Minden
Minden Gardnerville Sanitation District
Lyon County - Silver Springs

References:

Spang, E. S., Miller, S., & Loge, F. (2015). Consumption-Based Fixed Rates: Harmonizing Water Conservation and Revenue Stability . *Journal - American Water Works Association*, 107(3), E164-E173.
<http://dx.doi.org/10.5942/jawwa.2015.107.0001>

Appendix A: Water Rate Sheets

Carson City Water Rates

Water Rates as of 7/1/2018**Base Rate**

Meter Size	Amount
≤ 5/8"	27.39
1"	41.68
1 1/2"	62.22
2"	77.41
3"	113.14
4"	148.87
6"	220.33
10"	547.84
Single Family Residential	
Usage Chg per k/gal*	
0 - 5 @ \$1.76	
≥ 6 ≤ 30 @ <u>\$3.07</u>	
> 30 @ <u>\$4.91</u>	
Multifamily Residential	
\$ 1.99 per k/gal	
Base Rate \$9.70 Per Unit	
Commercial	
\$ 3.53 per k/gal	
Large Commercial	
\$ 3.71 per k/gal	
Industrial / Manufacturing	
\$ 3.71 per k/gal	

Carson City

Connection Fees:		Residential and Commercial:	
Meter Size		Meter & Service Installation (city installed)	
≤ 5/8"	\$2,246.00	≤ 5/8"	\$1,522.50
1"	\$5,342.00	1"	\$1,785.00
1 1/2"	\$3,731.00	1 1/2"	\$2,835.00
2"	\$3,731.00	2"	\$3,675.00
3"	\$3,731.00	3"	\$5,880.00
4"	\$3,731.00	4"	\$9,754.45
6"	\$3,731.00	6"	\$14,280.00
Multifamily per unit	\$710.00		

1 1/2" and larger meter charge is based on maximum day GPM

Stormwater Rates:	N/A
Classification:	Monthly Rate
Single Family Property	\$5.69
Multi Family Property	\$29.33
Public Property	\$32.03
Manufacturing Property	\$38.13
Commercial Property	\$40.96

Questions:

Do you anticipate a rate increase in 2018?
If known, please attach 2018 rate information.

Yes - water connection charges

General information on your service area :

FY17 Information

Population of Service Area:

54,115

Annual Demand (AF):

11,159

Service Connections:

16,883

Residential:

15,086

Mutli-Family:

Not split out

Commercial:

1,683

Irrigation:

not split out

Other:

114

Metered Connections:

100%

Unmetered Connections:

0

Re-Use Connections:

5

Bill Frequency:

monthly

Unidentified

System Losses:

<3%

Conservation Plan:

Yes

Reason for

Water Conservation:

Water Conservation conserves precious resources.

Churchill County Water Rates

Churchill County

Water Rates As Of January 2018

Base Rate

Meter Size	Amount
≤ 5/8"	\$ 49.90
1"	\$ 49.90
1 1/2"	\$ 74.70
2"	\$ 116.50
3"	\$ 243.00
4"	\$ 353.00
6"	\$ 706.60
10"	n/a
Single Family Residential Usage Chg per k/gal* 0 - 6@ \$2.10 ≥ 6 ≤ 20 @\$2.60 > 20 @\$3.15	
Multifamily Residential Usage Chg per k/gal* Meter charge priced based on meter size + \$37.70 0 - 6@ \$2.10 ≥ 6 ≤ 20 @\$2.60 > 20 @\$3.15	
Small Commercial Usage Chg per k/gal* \$ 74.70 base rate 0 - 6@ \$2.10 ≥ 6 ≤ 20 @\$2.60 > 20 @\$3.15	Industrial / Manufacturing Usage Chg per k/gal* \$74.70 base rate 0 - 20k @ .0025 >20k < 40k @ .0030 >40k < 60k @ .0030 >60k @ .0040
Large Commercial Usage Chg per k/gal* \$74.70 base rate	

Churchill County

Connection Fees:

Residential:	≤ 3/4"	\$7,200
	1"	\$7,200
Commercial:	≤ 3/4"	\$7,000
	N/A	\$7,600
	1 1/2"	\$9,200
	2"	\$11,000

Commercial Connection Fees calculated by **Water Equivalent Residential Customer (WERC)** value: 1 WERC = 550 gpd; fee per WERC = \$454.00

Stormwater Rates:	N/A
Classification:	Monthly Rate
Single Family Property	\$0.00
Multi Family Property	\$0.00
Public Property	\$0.00
Manufacturing Property	\$0.00
Commercial Property	\$0.00

Questions:

Do you anticipate a rate increase in 2018? 2.5% annually

If known, please attach 2018 rate information.

General information on your service area :

Population of Service Area: 705

Annual Demand (AF): 145

Service Connections: 271

Residential: 260

Mutli-Family: 3

Commercial: 8

Irrigation: 0

Other: 0

Metered Connections: 271

Unmetered Connections: 0

Re-Use Connections: 0

Bill Frequency: monthly

Unidentified

System Losses: unknown

Conservation Plan: Yes, 2014

Reason for Long-term

Water Conservation: sustainability

Douglas County Water Rates

Douglas County - Carson Valley

Water Rates As Of January 2018 (Effective July 1, 2017 - June 30, 2018)

Residential Base Rate

Meter Size	Amount
≤ 5/8"	\$ 24.97
3/4"	\$ 24.97
1"	\$ 51.62
1 1/2"	\$ 95.39
2"	\$ 149.41

Commercial Base Rate

Meter Size	Amount
≤ 5/8"	\$ 29.22
3/4"	\$ 29.22
1"	\$ 62.24
1 1/2"	\$ 116.65
2"	\$ 183.42
3"	\$ 373.88
4"	\$ 573.48
6"	\$ 1,124.69
8"	\$ 1,785.20

Irrigation Base Rate

Meter Size	Amount
≤ 5/8"	\$ 15.64
3/4"	\$ 15.64
1"	\$ 28.28
1 1/2"	\$ 48.71
2"	\$ 74.71
3"	\$ 156.47
4"	\$ 233.77

Douglas County - Carson Valley

Single Family Residential Usage Chg per k/gal* 0≥8@\$2.52 >9-24@ \$3.12 >24@\$4.51
Multifamily Residential Usage Chg per k/gal* N/A
Commercial Usage Chg per k/gal All @ \$3.11
Irrigation Usage Chg per k/gal All at \$3.35
Large Commercial Usage Chg per k/gal N/A

N/A

Connection Fees:

Meter Size		
≤ 5/8"	\$	4,219.00
3/4"	\$	4,219.00
1"	\$	10,548.00
1 1/2"	\$	21,096.00
2"	\$	33,753.00
3"	\$	67,506.00
4"	\$	105,479.00
6"	\$	210,958.00
8"	\$	337,532.00

Stormwater Rates:

Classification:	Monthly Rate
Single Family Property	\$0.00
Multi Family Property	\$0.00
Public Property	\$0.00
Manufacturing Property	\$0.00
Commercial Property	\$0.00

Douglas County - Carson Valley

Questions:

Do you anticipate a rate increase in 2018?
If known, please attach 2018 rate information.

Yes See Resolution No. 2014R-029
for rate shedule

General information on your service area :

Population of Service Area:

5,913

Annual Demand (AF):

1,799 acre-ft

Service Connections:

Residential:

2,365

Mutli-Family:

Commercial:

241

Irrigation:

124

Other:

Metered Connections:

2738

Unmetered Connections:

174 Fire Sprinkler Connections

Re-Use Connections:

1 Bently Ranch

Bill Frequency:

Monthly

Unidentified

System Losses:

Conservation Plan:

See Attached

Reason for

Water Conservation:

City of Fallon Water Rates

City of Fallon

Water Rates As Of January 2018

Base Rate

Meter Size	Amount
≤ 5/8"	\$ 25.72
1"	\$ 39.14
1 1/2"	\$ 58.43
2"	\$ 72.69
3"	\$ 106.24
4"	\$ 139.78
6"	\$ 206.88
10"	\$ 514.41
Single Family Residential	
Usage Chg. per 100 cubit ft. \$ 1.07	
Multifamily Residential	
Usage Chg. per 100 cubit ft. \$ 1.07	
Commercial Usage Chg. per 100 cubit ft. \$ 1.07	Industrial / Manufacturing Usage Chg. per 100 cubit ft. \$ 1.07
Large Commercial Usage Chg. per 100 cubit ft. \$ 1.07	

City of Fallon

Connection Fees:

Residential: Meter Only			Meter & Service Installation		
	≤ 5/8"	\$409.50		≤ 5/8"	\$1,522.50
	1"	\$493.50		1"	\$1,785.00
	1 1/2"	\$661.50		1 1/2"	\$2,835.00
	2"	\$819.00		2"	\$3,675.00
	3"	\$2,341.50		3"	\$5,880.00
	4"	\$3,990.00		4"	\$9,754.45
	6"	\$7,350.00		6"	\$14,280.00

Residential Connection Fees = 1 **Water Equivalent Residential Customer (WERC)** value: 1 WERC = 550 gpd; fee

Commercial:

Commercial:

Commercial Connection Fees calculated by **Water Equivalent Residential Customer (WERC)** value: 1

Stormwater Rates:	N/A
Classification:	Monthly Rate
Single Family Property	\$0.00
Multi Family Property	\$0.00
Public Property	\$0.00
Manufacturing Property	\$0.00
Commercial Property	\$0.00

Questions:

Do you anticipate a rate increase in 2018?

From 2016 Water Rate Report

General information on your service area :

Population of Service Area:	8,606
Annual Demand (AF):	2,334
Service Connections:	3,215
Residential:	2,888
Mutli-Family:	0
Commercial:	327
Irrigation:	0
Other:	0
Metered Connections:	3,178
Unmetered Connections:	N/A
Re-Use Connections:	N/A
Bill Frequency:	monthly
Unidentified	
System Losses:	N/A
Conservation Plan:	Yes
Reason for	
Water Conservation:	N/A

Gardnerville Ranchos GID Water Rates

Gardnerville Ranchos General Improvement District

Water Rates As Of January 2018

Residential/Commercial Rates:

Minimum Metered Monthly	\$ 21.50
	Outside GRGID
	\$ 33.00
Residential/Commercial Rates:	
Usage Chg per k/gal*	
<10 In Base	
> 10 \$.90	

Connection Fees:

Service Size:	Connection Fee A*:	Connection Fee B:
3/4"	\$4,950	3/4" \$ 1,855
1"	\$8,250	1" \$ 2,790
1.5"	\$16,500	1.5" \$ 7,050
2"	\$26,400	2" \$ 13,350
2.5"	\$29,600	2.5" \$ 21,550
3"	\$52,800	3" \$ 32,375
4"	\$82,500	4" \$ 60,000

* Fee applies to any lot or parcel legally created within District through Douglas County's land Division Process after March 6, 2013. Rate also applies to Out -of-District connections.

Stormwater Rates: N/A

Classification:	Monthly Rate
Single Family Property	\$0.00
Multi Family Property	\$0.00
Public Property	\$0.00
Manufacturing Property	\$0.00
Commercial Property	\$0.00

Gardnerville Ranchos General Improvement District

Questions:

Do you anticipate a rate increase in 2018? No

If known, please attach 2018 rate information.

General information on your service area :

Population of Service Area: 11,500

Annual Demand (AF): 3,100

Service Connections:

Residential: 3,610

Mutli-Family: 313

Commercial: N/A 51

Irrigation: 13

Other: Schools 3

Hydrant Meters 2

Metered Connections: 3,992

Unmetered Connections: 0

Re-Use Connections: 0

Gardnerville Water Company Water Rates

Gardnerville Water Company

Water Rates As Of January 2018

Residential, Commercial & Bimonthly Base Rate

Meter Size:	Amount
3/4"	\$ 33.00
1"	\$ 46.00
1 1/2"	\$ 93.00
2"	\$ 116.00
3"	\$ 355.00
4"	\$ 448.00
6"	\$ 498.00
8"	\$ 548.00
Residential Rate: Usage Chg k/gal ≤8 in base >8@\$1.37	
Commercial Rate: Usage Chg k/gal ≤20@\$1.37 >20@\$1.96	
Irrigation Rate: Usage Chg k/gal ≤ 300,000 @\$1.47 > 300,000 @\$1.96	

Gardnerville Water Company

Connection Fees:

Standard Impact Fees - Residential			Standard Impact Fees - Commercial		
3/4"	\$	11,455.00	3/4"	\$	12,855.00
1"	\$	11,505.00	1"	\$	14,705.00
1 1/2"	\$	13,390.00	1 1/2"	\$	18,790.00
2"	\$	14,225.00	2"	\$	22,625.00
3"	\$	14,030.00	3"	\$	39,430.00
4"	\$	14,580.00	4"	\$	64,980.00
6"	\$	15,480.00	6"	\$	95,880.00
8"	\$	16,080.00	8"	\$	113,480.00

Stormwater Rates:

Classification:	Monthly Rate
Single Family Property	\$0.00
Multi Family Property	N/A
Public Property	\$0.00
Manufacturing Property	\$0.00
Commercial Property	\$0.00

Questions:

Do you anticipate a rate increase in 2018?

If known, please attach 2018 rate information.

General information on your service area :

Population of Service Area:

Annual Demand (AF): 1090.82

Service Connections: 2376

Residential: 1935

Mutli-Family: 84

Commercial: 273

Irrigation: 84

Other:

Metered Connections: 2376

Unmetered Connections: 0

Re-Use Connections: 0

Bill Frequency: Bi-Monthly

Unidentified

System Losses: 5%

Conservation Plan: Yes

Reason for Delay the need for investment in

Water Conservation: new infrastructure

Indian Hills GID Water Rates

Indian Hills General Improvement District

Water Rates As Of January 2018

Indian Hills Residential and Commercial Water Rates

Meter Size	Amount
Meter Size	Base Rate
3/4"	33.57
1"	52.45
1.5"	109.61
2"	161.13
3"	269.09
4"	543.56
6"	793.61
8"	1198.05
Usage Chg per k/gal*	
< 10 @\$1.95	
≥ 10 @ \$2.30	

Connection Fees:

3/4"	\$	5,130.00
1"	\$	8,550.00
1 1/2"	\$	17,103.33
2"	\$	27,360.00
3"	\$	54,741.33
4"	\$	85,500.00
6"	\$	171,100.00
8"	\$	273,600.00

Stormwater Rates:

Classification:	Monthly Rate
Single Family Property	\$0.10
Multi Family Property	\$0.10
Public Property	\$0.10
Manufacturing Property	\$0.10
Commercial Property	\$0.10

Indian Hills General Improvement District

Questions:

Do you anticipate a rate increase in 2018? Yes September 1st: water basic fee will go from \$33.57 to \$36.22 per month, sewer
If known, please attach 2018 rate information. will go from \$39.73 to \$41.72 per edu, per

General information on your service area :

Population of Service Area: 5,627 month

Annual Demand (AF): 731 238,126,000 gallons

Service Connections: N/A

Residential: 1863

Mutli-Family:

Commercial: 87

Irrigation:

Other:

Metered Connections: all

Unmetered Connections:

Re-Use Connections:

Bill Frequency: monthly

Unidentified

System Losses:

Conservation Plan:

Reason for

Water Conservation:

Lyon County – Dayton and Moundhouse Water Rates

Lyon County - Dayton and Moundhouse

Water Rates As Of January 2018

Dayton Valley & Moundhouse Residential

Base Rate

Meter Size	Amount
3/4"	\$ 25.39

Dayton Valley & Moundhouse Commercial

Meter Size	Amount
3/4"	\$ 25.39
1"	\$ 34.41
1 1/2"	\$ 49.37
2"	\$ 67.35
3"	\$ 115.26
4"	\$ 169.16
6"	\$ 193.06
8"	\$ 243.86
Low Income	\$ 17.01

Single Family Residential/ Commercial

Usage Chg per k/gal*

≤5 in base

>5@\$3.12

Connection Fees:

Dayton and Mound House		
3/4"	\$	4,303
1"	\$	8,606
1 1/2"	\$	17,212
2"	\$	27,538
3"	\$	55,076
4"	\$	86,056
6"	\$	172,112
8"	\$	275,380

Stormwater Rates:

Classification:	Monthly Rate
Groundwater Impact Fee	\$1.00

Lyon County - Dayton and Moundhouse

Questions:

Do you anticipate a rate increase in 2018? YES 43,282.00

If known, please attach 2018 rate information.

General information on your service area :

Population of Service Area: 15,620

Annual Demand (AF): 2,645

Service Connections: N/A

Residential: 5,650

Mutli-Family: 598

Commercial: 601

Irrigation: INC IN COML

Other:

Metered Connections: 100%

Unmetered Connections: 0

Re-Use Connections: 0

Bill Frequency: MONTHLY

Unidentified

System Losses: 0.06

Conservation Plan: YES

Reason for

Water Conservation: SYSTEM OPS

Town of Minden Water Rates

Town of Minden

Water Rates As Of January 2018

Town of Minden Residential and Commercial Water Rates

Residential Flat Rate:	In Service Area Fees		7/1/17 (For Residential Only)
	Monthly	Quarterly	
Single Family	\$ 30.38	\$ 91.15	
Patio Home	\$ 26.87	\$ 80.60	
Office Residential	\$ 30.38	\$ 91.15	
	Out of Area Service Fees		
	Monthly	Quarterly	
	\$ 38.80	\$ 116.40	

Commercial :

Commercial - Out of Area Service fees

Metered:	Base Rate	Metered:	Base Rate
3/4"	\$ 24.05	3/4"	\$ 32.25
1"	\$ 27.30	1"	\$ 36.60
1 1/2"	\$ 37.60	1 1/2"	\$ 50.40
2"	\$ 61.40	2"	\$ 82.30
3"	\$ 122.75	3"	\$ 164.50
4" or larger	\$ 151.45	4" or larger	\$ 203.60
Unmetered:	\$ 21.32	per month per equivalent dwelling unit	
Commercial Usage Chg k/gal		Commercial - Out of Area Service Usage Chg k/gal	
≤50k @\$1.5		≤50k @\$2.05	
>50-100k @\$1.65		>50-100k @\$2.25	
>100k @ \$1.85		>100k @ \$2.50	

Town of Minden

Connection Fees:

Residential	brings	town provides
	water right	water right
single family 3/4"	\$4,975	\$12,480
single family 1"	\$7,775	\$15,470
multi-family unit 3/4"	\$4,975	\$10,675
multi-family unit 1"	\$7,775	\$13,665
Residential >1" pays non-residential rate		

Non-Residential

	Fixed Cost	
3/4"	\$5,255	Variable
1"	\$8,245	quote required
1 1/2"	\$16,010	
2"	N/A	
3"	\$55,050	
4"	Quote Required	
>4"	case by case	

Variable
cost of water right
\$6,450 acre-feet (af) per year

Stormwater Rates: N/A

Classification:	Monthly Rate
Single Family Property	\$0.00
Multi Family Property	\$0.00
Public Property	\$0.00
Manufacturing Property	\$0.00
Commercial Property	\$0.00

Town of Minden

Questions:

Do you anticipate a rate increase in 2018?

If known, please attach 2018 rate information.

General information on your service area :

Population of Service Area:	3,003 (2010 Census data)
Annual Demand (AF):	1,404
Service Connections:	1,799
Residential:	1,523
Mutli-Family:	
Commercial:	247
Irrigation:	
Other:	29
Metered Connections:	1,154
Unmetered Connections:	645
Re-Use Connections:	
Bill Frequency:	quarterly-residential; monthly-commercial
Unidentified	
System Losses:	Unknown
Conservation Plan:	Yes/2016
Reason for	
Water Conservation:	Meets State requirement

Silver Springs Mutual Water Company Water Rates

Silver Springs Mutual Water Company

Water Rates As Of January 2018

Residential:	Zone 1	Zone 2
	Base Rate	Base Rate
3/4"	\$ 50.00	\$ 54.00
1"	\$ 83.50	\$ 90.18
1 1/2"	\$ 166.50	\$ 179.82
2"	\$ 266.50	\$ 287.82
3"	\$ 533.50	\$ 576.18
4"	\$ 833.60	\$ 900.18
6"	\$ 1,666.50	\$ 1,799.82

*Water Service Deposit of 4 times base rate is held for 12 months of on-time payments and returned in 13 month.

Commercial/Industrial:

	Zone 1	Zone 2
	Base Rate	Base Rate
3/4"	\$ 54.00	\$ 58.00
1"	\$ 90.18	\$ 96.86
1 1/2"	\$ 179.82	\$ 193.14
2"	\$ 287.82	\$ 309.14
3"	\$ 576.18	\$ 618.86
4"	\$ 900.18	\$ 966.86
6"	\$ 1,799.82	\$ 1,933.14

Single Family Residential

Usage Chg per k/gal*

< 15 in base

≥15@\$2.00

Commercial

Usage Chg

k/gal

< 15 in base

≥15@ \$2.00

Silver Springs Mutual Water Company

Connection Fees:

3/4"	\$3,200	+actual cost
1"	\$5,300	+actual cost
1 1/2"	\$10,500	+actual cost
2"	\$16,800	+actual cost
3" N/A		+actual cost
4"	\$57,700	+actual cost
6"	\$105,000	+actual cost
		System
4" Fire	\$5,000	Service Line
		System
6" Fire	\$7,500	Service Line

Stormwater Rates:

Classification:	Monthly Rate
Single Family Property	\$0.00
Multi Family Property	\$0.00
Public Property	\$0.00
Manufacturing Property	\$0.00
Commercial Property	\$0.00

Questions:

Do you anticipate a rate increase in 2018?

From 2016 Water Rate Report

General information on your service area :

Population of Service Area: 2,961

Annual Demand (AF): 439

Service Connections: 1,088

Residential: 966

Mutli-Family:

Commercial: 119

Irrigation:

Other: 3

Metered Connections: 100%

Unmetered Connections: 0

Re-Use Connections:

Bill Frequency: monthly

Unidentified

System Losses: Unknown

Conservation Plan: Yes

Reason for

Water Conservation: We live in a desert

Stagecoach GID Water Rates

Stagecoach General Improvement District

Water Rates As Of January 2018

Stagecoach GID Residential and Commercial Water Rates

Residential:	Base Rate
	\$ 60.00

Commercial:

Meter Size	Base Rate
1"	\$ 81.90
1 1/2 "	\$ 100.01
2"	\$ 128.80
3"	\$ 185.60
4"	\$ 243.11
6"	\$ 357.39

Water Dedication .67 af per parcel
 1 hook-up - none
 split parcels - .67 af/parcel

Residential Usage Chg per k/gal* ≤25 in base >25@\$3.00
Commercial Usage Chg per k/gal* < 1 in base ≥ 1 ≥ 50 @ \$3.50 >50<100@\$4.00 ≥100@\$5.00

Connection Fees:

Residential All Sizes	\$5,000.00	District & Expansion Lots
Commerical Fees All Sizes		
Fee schedue will be the basis for assessing commercial hook-up fees.		
Equivalent Residential Unit	GDP	Connection Fee Dedication of Water Right
1	600	1 X residential fee None
2	1,200	2 X residential fee .67 acre feet
3	1,800	3 X residential fee 1.34 acre feet
4	2,400	4 X residential fee 2.01 acre feet
Plus additional cost for meter larger than 3/4 X 5/8.		

Stagecoach General Improvement District

Stormwater Rates:

Classification:	Monthly Rate
Single Family Property	N/A
Multi Family Property	\$0.00
Public Property	\$0.00
Manufacturing Property	\$0.00
Commercial Property	\$0.00

Questions:

Do you anticipate a rate increase in 2018? Effective July 1, 2018, 2019, 2020, 2021 and
If known, please attach 2018 rate information. 2022 a base-rate increase of \$1 to monthly
Residential and Commercial Water Service

General information on your service area :

Population of Service Area:	1380
Annual Demand (AF):	270
Service Connections:	564
Residential:	560
Mutli-Family:	2
Commercial:	4
Irrigation:	0
Other:	0
Metered Connections:	100%
Unmetered Connections:	0
Re-Use Connections:	0
Bill Frequency:	Monthly
Unidentified	
System Losses:	8%
Conservation Plan:	Yes, 2014
Reason for	To protect our
Water Conservation:	natural resource

Storey County Water Rates

Storey County

Water Rates As Of January 2018

Residential Base Rate

Meter Size	Amount
≤ 5/8"	36.97
1"	41.68
1 1/2"	62.22
2"	77.41
3"	113.14
4"	148.87
6"	220.33
10"	547.84

Single Family Residential

Usage Chg per k/gal*

0 - 2 in base

≥ 2 @ \$2.99

Residential Base Rate

Meter Size	Amount
≤ 5/8"	55.92
1"	41.68
1 1/2"	62.22
2"	77.41
3"	113.14
4"	148.87
6"	220.33
10"	547.84

Commercial

Usage Chg per k/gal*

0 - 2 in base

≥ 2 @ \$3.90

Storey County

Connection Fees:

Residential: \$ 2,500.00

Connection Fees:

Commercial: \$ 4,100.00

Stormwater Rates: N/A

Classification:	Monthly Rate
Single Family Property	36.97 min. for 2k
Multi Family Property	\$0.00
Public Property	N/A
Manufacturing Property	\$0.00
Commercial Property	55.92 min for 2k

Questions:

Do you anticipate a rate increase in 2018?

If known, please attach 2018 rate information.

General information on your service area :

Population of Service Area: ~ 1,500

Annual Demand (AF): 49,500,000 2017

Service Connections: 635

Residential: 454

Mutli-Family:

Commercial: 181

Irrigation:

Other:

Metered Connections: 635

Unmetered Connections: N/A

Re-Use Connections: N/A

Bill Frequency: Monthly

Unidentified

System Losses: Unknown

Conservation Plan: Yes

Reason for

Water Conservation:

Truckee Meadows Water Authority Water Rates

Truckee Meadows Water Authority (Includes former Washoe County and STMGID Customers)

Truckee Meadows Water Authority Service Area Rates and Charges:

Residential:	Metered	Small Unit Flat Rate:
	Base Rate Usage Chg	
≤3/4" \$ 19.10	k/gal	≤3/4" \$ 17.51
1" \$ 21.01	≤ 6@\$1.77	1" \$ 19.26
1 1/2" \$ 23.90	>6-28@\$2.86	1 1/2" \$ 21.94
2" \$ 27.71	>28@\$3.35	2" \$ 25.44
3" \$ 31.52		3" \$ 28.94
4" \$ 36.26		4" \$ 33.27
6" \$ 42.02		6" 38.52

Former Washoe County Water Utility Rates and Charges:

Residential:	Metered	Meters <1.5"	Meters > 1.5"
	Base Rate Usage Chg		Usage Chg
≤3/4" \$ 17.95	k/gal		k/gal
1" \$ 23.09	<7@\$2.70		<29@\$2.70
1 1/2" \$ 33.03	≥7<21@\$3.37		≥29<151@\$3.37
2" \$ 44.04	≥21<41@\$4.05		≥151<601@\$4.05
3" \$ 70.92	>41@\$5.41		≥601@\$5.41
4" \$ 103.87			
6" \$ 189.37			

Former STMGID Rates and Charges:

Residential:	Metered	Meters <1.5"
	Base Rate Usage Chg	
≤3/4" \$ 9.77	k/gal	
1" \$ 11.96	≤6@\$1.40	
1 1/2" \$ 16.96	>6≤20@\$1.85	
2" \$ 22.90	>20≤40@2.28	
	>40≤65@2.66	
	>65@2.81	

Commercial:	Commercial	Tier Quantities in k/gal*
	Base Rate Usage Chg	Tier 1 Tier 2 Tier3
≤3/4" \$ 19.10	k/gal	0-7 >7-30 >30
1" \$ 21.01		0-14 >14-65 >65
1 1/2" \$ 23.90	Tier 1: \$1.77	0-28 >28-120 >120
2" \$ 27.71	Tier 2: \$2.86	0-50 >50-210 >210
3" \$ 31.52	Tier 3: \$3.35	0-165 >165-640 >640
4" \$ 36.26		0-300 >300-1,300 >1,300
6" \$ 42.02		0-1,000 >1,000-2,600 >2,600
8" \$ 48.72		0-1,475 >1,475-6,000 >6,000
10" \$ 57.27		0-9,500 >9,500-15,000 >15,000

* Tier usage levels are set for each Meter size according to this table.

Information collected from TMWA Website

Accessed 3/12/2018

<https://tmwa.com/tmwa-customers/water-rates/>

Appendix B: Sewer Rate Sheets

Carson City Sewer Rates

Carson City Sewer Rates

7/1/2018		
Flat Rates:		
Single - Family Residential (per unit)	\$	40.45
Multi - Family Residential (per unit)	\$	27.18
Metered Rates:		
Low-Strength Commercial		
Base Charge	\$	40.45
Volume charge (per 1,000 gallons of metered domestic water)	\$	6.78
High-Strength Commercial		
Base Charge	\$	40.45
Volume charge (per 1,000 gallons of metered domestic water)	\$	11.98

Sewer Connection Fees:		\$ 2,926.00	Sewer Water Equivalent Residential Value
Sewer Connection Fees calculated by Sewer Equivalent Residential Customer (SERC) value; 1 SERC = 200 gallons			
Sewer Rate Classes	SERC		
Single -family residence, Mobile home (individual lot)	1.00		For all other sewer connections not specified above, connection charge will be based on the Sewer Equivalent Residential Customer (SERC) of proposed development. Value will be assigned by utility director or his designee.
Duplex (each living unit)	0.75		
Apartment (each living unit), Mobile home park (each pad) (each living unit)	0.65		

Expect Rate Change in the upcoming year?

Churchill County Sewer Rates

Churchill County Sewer Rates

1/1/2018

Flat Sewer Rates:			
Single - Family Residential (per unit)		\$	54.90
Metered Sewer Rates:			
Low-Strength Commercial			
Base Charge		\$	54.90
Volume charge (per 1,000 gallons of metered domestic water when > 10,000 gpm)		\$	4.20
High-Strength Commercial			
Base Charge		\$	54.90
Volume charge (per 1,000 gallons of metered domestic water when > 10,000 gpm)		\$	4.20 plus additional surcharge as determined by Churchill County
Sewer Connection Fees:			
Single Family Residential		\$	6,500.00
Commercial	Base Rate	\$	6,500.00
		\$	350.00

Commercial customer will pay base rate fee of \$6,500.00 as a minimum charge for up to 15 Equivalent Residential Units (ERU). If number of ERU's exceeds 15, customer will be responsible for an additional amount of \$350.00 per fixture unit. Calculation of ERU and fixture units will be performed using flow formula by Churchill County Building Department.

Expect Rate Change in the upcoming year? **Yes**

2/2016 Information provided by Churchill County

Douglas County Sewer Rates

Douglas County Sewer Rates

Monthly Sewer Rates

FY18 July 1, 2017 - June 30, 2018	\$	69.81	Per Equivalent Dwelling Unit (EDU). 1 EDU = 250 gallons.
FY19 July 1, 2018 - June 30, 2019	\$	72.08	Per Equivalent Dwelling Unit (EDU). 1 EDU = 250 gallons.
		N.A.	per gallon for domestic septage*
* As a practical matter, Douglas County does not accept septage at the North Valley Wastewater Facility.			

Sewer Connection Fees

North County Portion	\$	7,150.00
Genoa Lakes	\$	7,072.00
All other North Valley		
Service	\$	6,020.00

Expect Rate Change in the upcoming year?

**Sewer rates will increase annually on
July 1 through June 30, 2019.**

See Resolution No. 2014R-030

1/2018 Information provided by Ron Roman and staff

City of Fallon Sewer Rates

City of Fallon Sewer Rates

Flat Rates:

Single - Family Residential (per unit)	\$	35.00	per month
	\$	35.00	per month

Metered Rates:

Commercial Normal			
Base Charge	\$	11.70	per month
Volume charge (per 1,000 gallons of metered domestic water)	\$	2.18	per kgal metered water
High-Strength Commercial			
Base Charge	\$	11.70	per month
Volume charge (per 1,000 gallons of metered domestic water)		Determined on a case-by-case basis	

Sewer Connection Fees:

3/4"	\$	3,000
1"	\$	6,000
1 1/2"	\$	12,000
2"	\$	19,200
3"	\$	48,000
4"	\$	120,000
6"	\$	240,000

Expect Rate Change in the upcoming year? No

Gardnerville Ranchos GID Sewer Rates

Gardnerville Ranchos General Improvement District

Category One*:	\$ 21.50 per month	
*Billing rate for connections to Sewer System after May 17, 1990.		
Category Two**	\$ 14.50 per month	
** Billing rate for connections to Sewer System prior to May 17, 1990.		
Pump Station 1 In-District		Applies to district customers
Service Area:	\$ 14.50 per edu/ per month	and annexed into district customers
Pump Station 1 Out-of-District Customers	\$ 32.00 per month	
Pump Station 1 Out-of-District Maintenance Fee	\$ 5.00 per month	
	\$ 37.00	

A rate increase of \$0.50 per month will commence for the July 2014 billing.

Sewer Connection Fees:

Category I	\$ 2,200.00 per Equivalent Dwelling Unit
Category I was for people on septic, which is now down to 2 homes.	
Prior to Annex 3/6/2013	\$ 4,675.00 per Equivalent Dwelling Unit
UnAnnexed after 3/6/2018	\$ 6,300.00 per Equivalent Dwelling Unit
Pump Station 1 Surcharge	\$ 1,728.00

Expect Rate Change in the upcoming year?

No

The Gardnerville Ranchos GID has a contract with MGSD to accept effluent from the Ranchos. The Ranchos maintains its own sewer mains.

Gardnerville Water Company Sewer Rates

Gardnerville Water Company

Sewer Service Provided by Minden - Gardnerville Sanitation District

Indian Hills GID Sewer Rates

Indian Hills General Improvement District

Sewer Rates

Residential Flat Rate:	8/1/2017	
	\$ 39.73	
	\$ 39.73	per Equivalent Dwelling Unit (EDU) 250 gpd = 1 EDU Additional charges determined by IHGID if discharge contains non-
Sewer Connection Fees:		
Single Family Residential	\$ 5,130.00	

Expect Rate Change in the upcoming year?

**Annual Rate increases June 1
through June 30, 2019**

Lyon County – Dayton and Moundhouse Sewer Rates

Lyon County - Dayton and Moundhouse

Sewer Rates

Rate Increase Effective: 7/1/2018

Lyon County Sewer Rates for Moundhouse & Dayton:

Flat Rates:

Single - Family Residential (per unit)	\$	58.94	per month
Multi Family Residential (per unit)	\$	53.70	per month
Low Income Single - Family Residential	\$	36.97	per month

Metered Rates:

Commercial & Industrial			
Base Charge (No Usage Allowance)	\$	24.18	per month
Volume charge (per 1,000 gallons of metered domestic water)	\$	4.33	per k/gal
High-Strength Commercial			
Base Charge	\$	24.18	per month
Volume charge (per 1,000 gallons of metered domestic water)			Determined on a case-by-case basis

Sewer Connection Fees:

Single Family Residential		
Reimbursement Fee - Collection	\$	307.00
Bond Payments Fee	\$	2,200.00
Capital Facility Charge	\$	7,109.00
Total Sewer Service Connection Fee	\$	9,616.00

Expect Rate Change in the upcoming year? Increase annually on 7/1 through June 30, 2019.

Minden Gardnerville Sanitation Sewer Rates

Minden Gardnerville Sanitation District

Sewer Rates

Sanitation District serves customers in Minden and Gardnerville.

Service Connections:

Residential:	3,300
*Multi-Family:	50
Commercial:	350
Irrigation:	0
***Other:	0

**Metered Connections:

Unmetered Connections: 3,500

Re-Use Connections:

Bill Frequency: Quarterly

Unidentified

System Losses: Unknown

Conservation Plan: N/A

Reason for

Water Conservation: N/A

Rate Increase Effective: N/A

Sewer Fees

Sewer User Fees are billed quarterly as follows:

			per Equivalent
First Quarter:	\$	41.40	Dwelling Unit
			per Equivalent
Second Quarter:	\$	41.86	Dwelling Unit
			per Equivalent
Third Quarter:	\$	42.32	Dwelling Unit
			per Equivalent
Fourth Quarter:	\$	42.32	Dwelling Unit

Connection Fees:

Residential

\$ 275.00 includes 1 EDU

Commercial

per Equivalent

\$ 300.00 Dwelling Unit

per Equivalent

Capacity fee \$ 3,800.00 Dwelling Unit

The Minden-Gardnerville Sanitation District also has a contract with Gardnerville Ranchos GID to provide sewer service to the area. Gardnerville Ranchos GID bills its residents for sewer service.

Lyon County – Silver Springs GID Sewer Rates

Silver Springs General Improvement District Sewer Rates

Sewer Service in Silver Springs provided by Lyon County

Rate Increase Effective: 7/1/2014

Lyon County Sewer Rates for Silver Springs:

Residential	\$	20.00	per EDU*			
	\$	30.00	per EDU*			
Rate Codes		EDU* Cost			EDU* Cost	
		1 \$	20.00		10 \$	200.00
		1.5 \$	30.00		11 \$	220.00
		2 \$	40.00		11.9 \$	238.00
		2.5 \$	50.00		19 \$	380.00
		2.7 \$	54.00		25 \$	500.00
		2.8 \$	56.00		33 \$	660.00
		3 \$	60.00		35 \$	700.00
		3.1 \$	62.00		38 \$	760.00
		4 \$	80.00		197 \$	3,940.00
		5.2 \$	104.00			
		5.5 \$	110.00			
		6 \$	120.00			
		8.5 \$	235.00			

*An equivalent dwelling unit (EDU), refers to a one single family dwelling unit with an estimated sewage flow of 242 gpd.

Expect Rate Change in the upcoming year? **No**

Sewer Connection Fees: The majority of customers pay connection fee via tax assessment
However, if the connection fee did not have an assessment, the fee would be \$8,264.00

Stagecoach Sewer Rates

Stagecoach General Improvement District

All the homes in the Stagecoach General Improvement District are on septic systems; therefore, sewer rates are not applicable.

Storey County Sewer Rates

Storey County

Sewer Rates

Rate Increase Effective:

Sewer Fees:

Residential Sewer Rate:

Base Rate	\$ 48.39 *
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This includes Storey County's assesment of \$16.64 per residential lot to finance its sewer system upgrade.

Commercial Sewer Rate:

Base Rate:	\$	65.67 **
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Usage charge per k/gal

Usage fee:	\$ 2.14	Include 2,000 gallons of water usage
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****This includes Storey County's assessment of \$20.81 per residential lot to finance its sewer system upgrade.**

Reconnect Fee	\$ 60.00
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Sewer Connection Fees:

Standard Connection Fees with meter

Residential:	\$ 3,300.00
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Commercial:	\$ 4,800.00
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Expect Rate Change in the upcoming year?

No