

2014-2023 Impact Fee Development

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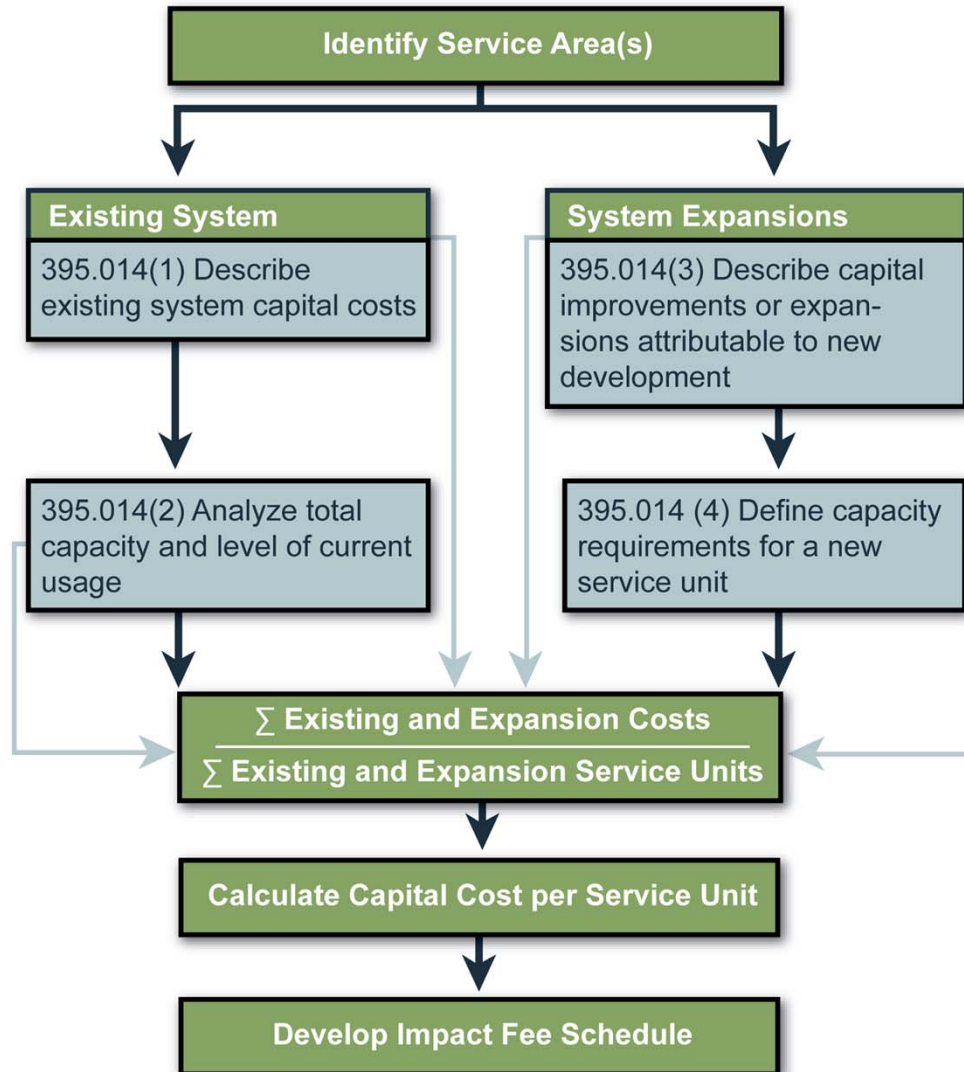
Red Oak ARCADIS

December 19, 2013

Capital Improvements Advisory Committee Meeting



Impact Fee Formula



Capital Improvements Plan (CIP)

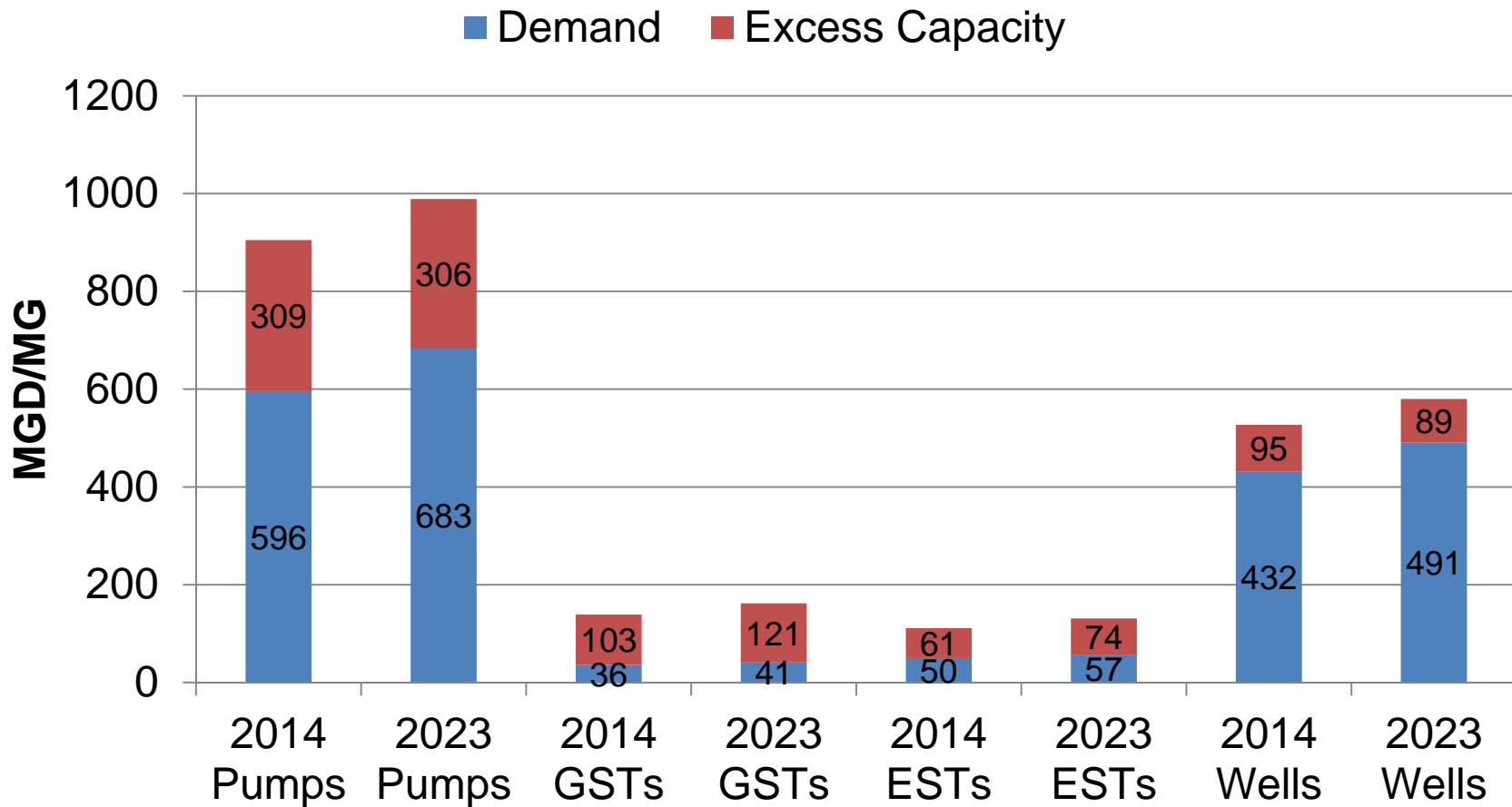
Financial Assumptions

- Existing Infrastructure
 - 35% cash funded
 - 65% debt funded
 - Interest expense is included in impact fee
- Water Delivery Future CIP – 80% cash funded, 20% debt funded
- Water Supply Future CIP – 100% debt funded (interest not included)
- Wastewater Future CIP
 - MRSO – 100% debt funded (interest not included)
 - All other projects – 80% cash funded, 20% debt funded

WATER DELIVERY – SYSTEM DEVELOPMENT



Water System Development Capacities



Capacity Criteria

High Elevation Service Area – High Service and Booster Pumps

Line	Description	Value
1	Average Daily Demand (gpcd)	166
2	Maximum Hour Peaking Factor	3.38
3	2013 Population	44,747
4	2013 MHD (mgd) ([1] * [2] * [3] / 1 million)	25.1
5	2023 Population	65,826
6	2023 MHD (mgd) ([1] * [2] * [5] / 1 million)	36.9
7	Study Period Increase in MHD (mgd) ([6] – [4])	11.8

Available Capacity

High Elevation Service Area – High Service and Booster Pumps

Line	Description	Value
1	2013 MHD (mgd)	25.1
2	2013 Capacity (mgd)	88.3
3	2023 MHD (mgd)	36.9
4	2023 Capacity (mgd)	106.2
5	Study Period Increase in Capacity (mgd) ([4] – [2])	17.9
6	Available Existing Capacity (mgd) ([2] – [1])	63.2
7	Available Existing Capacity ([6] / [2])	71.6%

Eligible Existing Assets and Future CIP

High Elevation Service Area – High Service and Booster Pumps

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (mgd)	63.2
2	Study Period Increase in Capacity (mgd)	17.9
3	Total Available Capacity (mgd)	81.1
4	Study Period Increase in MHD (mgd)	11.8
5	Eligible Available Capacity Allocation ([4] / [3])	14.6%

Eligible Existing Assets and Future CIP

High Elevation Service Area – High Service and Booster Pumps

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	14.6%
2	Available Existing Capacity	71.6%
3	Value of Existing Assets	\$ 9,605,165
4	Eligible Existing Asset Value ([1] * [2] * [3]))	\$ 1,002,181
5	Value of Future CIP	\$ 6,847,602
6	Eligible Future CIP Value ([1] * [5])	\$ 998,266

Financing Costs

High Elevation Service Area – High Service and Booster Pumps

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 1,002,181
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 651,418
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 27,333

- **Sum of Eligible Interest 2014-2043 = \$398,239**

Capacity Criteria

Middle Elevation Service Area – High Service and Booster Pumps

Line	Description	Value
1	Average Daily Demand (gpcd)	133
2	Maximum Hour Peaking Factor	2.89
3	2013 Population	538,582
4	2013 MHD (mgd) ([1] * [2] * [3] / 1 million)	207.0
5	2023 Population	647,218
6	2023 MHD (mgd) ([1] * [2] * [5] / 1 million)	248.8
7	Study Period Increase in MHD (mgd) ([6] – [4])	41.8

Available Capacity

Middle Elevation Service Area – High Service and Booster Pumps

Line	Description	Value
1	2013 MHD (mgd)	207.0
2	2013 Capacity (mgd)	366.6
3	2023 MHD (mgd)	248.8
4	2023 Capacity (mgd)	413.7
5	Study Period Increase in Capacity (mgd) ([4] – [2])	47.1
6	Available Existing Capacity (mgd) ([2] – [1])	159.6
7	Available Existing Capacity ([6] / [2])	43.5%

Eligible Existing Assets and Future CIP

Middle Elevation Service Area – High Service and Booster Pumps

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (mgd)	159.6
2	Study Period Increase in Capacity (mgd)	47.1
3	Total Available Capacity (mgd)	206.7
4	Study Period Increase in MHD (mgd)	41.8
5	Eligible Available Capacity Allocation ([4] / [3])	20.2%

Eligible Existing Assets and Future CIP

Middle Elevation Service Area – High Service and Booster Pumps

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	20.2%
2	Available Existing Capacity	43.5%
3	Value of Existing Assets	\$ 39,874,523
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 3,507,457
5	Value of Future CIP	\$ 20,021,505
6	Eligible Future CIP Value ([1] * [5])	\$ 4,045,508

Financing Costs

Middle Elevation Service Area – High Service and Booster Pumps

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 3,507,457
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 2,279,847
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 95,659

- **Sum of Eligible Interest 2014-2043 = \$1,393,768**

Capacity Criteria

Low Elevation Service Area – High Service and Booster Pumps

Line	Description	Value
1	Average Daily Demand (gpcd)	122
2	Maximum Hour Peaking Factor	2.73
3	2013 Population	1,091,176
4	2013 MHD (mgd) ([1] * [2] * [3] / 1 million)	363.4
5	2023 Population	1,191,422
6	2023 MHD (mgd) ([1] * [2] * [5] / 1 million)	396.8
7	Study Period Increase in MHD (mgd) ([6] – [4])	33.4

Available Capacity

Low Elevation Service Area – High Service and Booster Pumps

Line	Description	Value
1	2013 MHD (mgd)	363.4
2	2013 Capacity (mgd)	449.6
3	2023 MHD (mgd)	396.8
4	2023 Capacity (mgd)	468.9
5	Study Period Increase in Capacity (mgd) ([4] – [2])	19.3
6	Available Existing Capacity (mgd) ([2] – [1])	86.2
7	Available Existing Capacity ([6] / [2])	19.2%

Eligible Existing Assets and Future CIP

Low Elevation Service Area – High Service and Booster Pumps

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (mgd)	86.2
2	Study Period Increase in Capacity (mgd)	19.3
3	Total Available Capacity (mgd)	105.5
4	Study Period Increase in MHD (mgd)	33.4
5	Eligible Available Capacity Allocation ([4] / [3])	31.7%

Eligible Existing Assets and Future CIP

Low Elevation Service Area – High Service and Booster Pumps

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	31.7%
2	Available Existing Capacity	19.2%
3	Value of Existing Assets	\$ 48,899,880
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 2,966,872
5	Value of Future CIP	\$ 9,539,735
6	Eligible Future CIP Value ([1] * [5])	\$ 3,020,006

Financing Costs

Low Elevation Service Area – High Service and Booster Pumps

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 2,966,872
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 1,928,467
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 80,916

- **Sum of Eligible Interest 2014-2043 = \$1,178,955**

2014 – 2023 Eligible CIP Costs

High Service and Booster Pumps

Existing Capacity				New CIP Capacity			Total Capacity	
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
High	9.6	1.0	0.4	6.9	1.0	0.0	16.5	2.4
Middle	39.9	3.5	1.4	20.0	4.0	0.0	59.9	8.9
Low	48.9	3.0	1.2	9.5	3.0	0.0	58.4	7.2
Total	98.4	7.5	3.0	36.4	8.0	0.0	134.8	18.5

Capacity Criteria

High Elevation Service Area – Ground Storage Tanks

Line	Description	Value
1	Minimum Storage Requirements (gal/conn)	14
2	2013 Connections	11,369
3	2013 MHD (MG) ([1] * [2] / 1 million)	0.159
4	2023 Connections	16,724
5	2023 MHD (MG) ([1] * [4] / 1 million)	0.234
6	Study Period Increase in MHD (MG) ([5] – [3])	0.075

Available Capacity

High Elevation Service Area – Ground Storage Tanks

Line	Description	Value
1	2013 MHD (MG)	0.159
2	2013 Capacity (MG)	3.06
3	2023 MHD (MG)	0.234
4	2023 Capacity (MG)	3.06
5	Study Period Increase in Capacity (MG) ([4] – [2])	0.00
6	Available Existing Capacity (MG) ([2] – [1])	2.901
7	Available Existing Capacity ([6] / [2])	94.8%

Eligible Existing Assets and Future CIP

High Elevation Service Area – Ground Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (MG)	2.901
2	Study Period Increase in Capacity (MG)	0.00
3	Total Available Capacity (MG)	2.901
4	Study Period Increase in MHD (MG)	0.075
5	Eligible Available Capacity Allocation ([4] / [3])	2.6%

Eligible Existing Assets and Future CIP

High Elevation Service Area – Ground Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	2.6%
2	Available Existing Capacity	94.8%
3	Value of Existing Assets	\$ 880,239
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 21,599
5	Value of Future CIP	\$ 0
6	Eligible Future CIP Value ([1] * [5])	\$ 0

Financing Costs

High Elevation Service Area – Ground Storage Tanks

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 21,599
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 14,039
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 589

- **Sum of Eligible Interest 2014-2043 = \$8,583**

Capacity Criteria

Middle Elevation Service Area – Ground Storage Tanks

Line	Description	Value
1	Minimum Storage Requirements (gal/conn)	67
2	2013 Connections	136,835
3	2013 MHD (MG) ([1] * [2] / 1 million)	9.2
4	2023 Connections	164,435
5	2023 MHD (MG) ([1] * [4] / 1 million)	11.0
6	Study Period Increase in MHD (MG) ([5] – [3])	1.8

Available Capacity

Middle Elevation Service Area – Ground Storage Tanks

Line	Description	Value
1	2013 MHD (MG)	9.2
2	2013 Capacity (MG)	46.0
3	2023 MHD (MG)	11.0
4	2023 Capacity (MG)	62.5
5	Study Period Increase in Capacity (MG) ([4] – [2])	16.5
6	Available Existing Capacity (MG) ([2] – [1])	36.8
7	Available Existing Capacity ([6] / [2])	80.0%

Eligible Existing Assets and Future CIP

Middle Elevation Service Area – Ground Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (MG)	36.8
2	Study Period Increase in Capacity (MG)	16.5
3	Total Available Capacity (MG)	53.3
4	Study Period Increase in MHD (MG)	1.8
5	Eligible Available Capacity Allocation ([4] / [3])	3.5%

Eligible Existing Assets and Future CIP

Middle Elevation Service Area – Ground Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	3.5%
2	Available Existing Capacity	80.0%
3	Value of Existing Assets	\$ 13,248,217
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 367,873
5	Value of Future CIP	\$ 16,131,250
6	Eligible Future CIP Value ([1] * [5])	\$ 559,457

Financing Costs

Middle Elevation Service Area – Ground Storage Tanks

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 367,873
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 239,117
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 10,033

- **Sum of Eligible Interest 2014-2043 = \$146,183**

Capacity Criteria

Low Elevation Service Area – Ground Storage Tanks

Line	Description	Value
1	Minimum Storage Requirements (gal/conn)	97
2	2013 Connections	277,230
3	2013 MHD (MG) ([1] * [2] / 1 million)	26.9
4	2023 Connections	302,699
5	2023 MHD (MG) ([1] * [4] / 1 million)	29.4
6	Study Period Increase in MHD (MG) ([5] – [3])	2.5

Available Capacity

Low Elevation Service Area – Ground Storage Tanks

Line	Description	Value
1	2013 MHD (MG)	26.9
2	2013 Capacity (MG)	89.9
3	2023 MHD (MG)	29.4
4	2023 Capacity (MG)	96.3
5	Study Period Increase in Capacity (MG) ([4] – [2])	6.4
6	Available Existing Capacity (MG) ([2] – [1])	63.0
7	Available Existing Capacity ([6] / [2])	70.1%

Eligible Existing Assets and Future CIP

Low Elevation Service Area – Ground Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (MG)	63.0
2	Study Period Increase in Capacity (MG)	6.4
3	Total Available Capacity (MG)	69.4
4	Study Period Increase in MHD (MG)	2.5
5	Eligible Available Capacity Allocation ([4] / [3])	3.6%

Eligible Existing Assets and Future CIP

Low Elevation Service Area – Ground Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	3.6%
2	Available Existing Capacity	70.1%
3	Value of Existing Assets	\$ 25,906,798
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 646,469
5	Value of Future CIP	\$ 8,563,750
6	Eligible Future CIP Value ([1] * [5])	\$ 304,856

Financing Costs

Low Elevation Service Area – Ground Storage Tanks

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 646,469
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 420,205
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 17,631

- **Sum of Eligible Interest 2014-2043 = \$256,889**

2014 – 2023 Eligible CIP Costs

Ground Storage Tanks

Existing Capacity				New CIP Capacity			Total Capacity	
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
High	0.9	0.02	0.01	0.0	0.0	0.0	0.9	0.03
Middle	13.2	0.4	0.1	16.1	0.6	0.0	29.3	1.1
Low	25.9	0.6	0.3	8.6	0.3	0.0	34.5	1.2
Total	40.0	1.0	0.4	24.7	0.9	0.0	64.7	2.3

Capacity Criteria

High Elevation Service Area – Elevated Storage Tanks

Line	Description	Value
1	Minimum Storage Requirements (gal/conn)	238
2	2013 Connections	11,369
3	2013 MHD (MG) ([1] * [2] / 1 million)	2.7
4	2023 Connections	16,724
5	2023 MHD (MG) ([1] * [4] / 1 million)	4.0
6	Study Period Increase in MHD (MG) ([5] – [3])	1.3

Available Capacity

High Elevation Service Area – Elevated Storage Tanks

Line	Description	Value
1	2013 MHD (MG)	2.7
2	2013 Capacity (MG)	6.9
3	2023 MHD (MG)	4.0
4	2023 Capacity (MG)	9.4
5	Study Period Increase in Capacity (MG) ([4] – [2])	2.5
6	Available Existing Capacity (MG) ([2] – [1])	4.2
7	Available Existing Capacity ([6] / [2])	60.9%

Eligible Existing Assets and Future CIP

High Elevation Service Area – Elevated Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (MG)	4.2
2	Study Period Increase in Capacity (MG)	2.5
3	Total Available Capacity (MG)	6.7
4	Study Period Increase in MHD (MG)	1.3
5	Eligible Available Capacity Allocation ([4] / [3])	19.1%

Eligible Existing Assets and Future CIP

High Elevation Service Area – Elevated Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	19.1%
2	Available Existing Capacity	60.9%
3	Value of Existing Assets	\$ 3,285,485
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 380,350
5	Value of Future CIP	\$ 6,338,000
6	Eligible Future CIP Value ([1] * [5])	\$ 1,207,564

Financing Costs

High Elevation Service Area – Elevated Storage Tanks

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 380,350
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 247,228
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 10,373

- **Sum of Eligible Interest 2014-2043 = \$151,141**

Capacity Criteria

Middle Elevation Service Area – Elevated Storage Tanks

Line	Description	Value
1	Minimum Storage Requirements (gal/conn)	133
2	2013 Connections	136,835
3	2013 MHD (MG) ([1] * [2] / 1 million)	18.2
4	2023 Connections	164,435
5	2023 MHD (MG) ([1] * [4] / 1 million)	21.9
6	Study Period Increase in MHD (MG) ([5] – [3])	3.7

Available Capacity

Middle Elevation Service Area – Elevated Storage Tanks

Line	Description	Value
1	2013 MHD (MG)	18.2
2	2013 Capacity (MG)	43.9
3	2023 MHD (MG)	21.9
4	2023 Capacity (MG)	52.7
5	Study Period Increase in Capacity (MG) ([4] – [2])	8.8
6	Available Existing Capacity (MG) ([2] – [1])	25.7
7	Available Existing Capacity ([6] / [2])	58.5%

Eligible Existing Assets and Future CIP

Middle Elevation Service Area – Elevated Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (MG)	25.7
2	Study Period Increase in Capacity (MG)	8.8
3	Total Available Capacity (MG)	34.5
4	Study Period Increase in MHD (MG)	3.7
5	Eligible Available Capacity Allocation ([4] / [3])	10.6%

Eligible Existing Assets and Future CIP

Middle Elevation Service Area – Elevated Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	10.6%
2	Available Existing Capacity	58.5%
3	Value of Existing Assets	\$ 20,935,950
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 1,305,333
5	Value of Future CIP	\$ 24,927,000
6	Eligible Future CIP Value ([1] * [5])	\$ 2,652,971

Financing Costs

Middle Elevation Service Area – Elevated Storage Tanks

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 1,305,333
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 848,466
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 35,600

- **Sum of Eligible Interest 2014-2043 = \$518,704**

Capacity Criteria

Low Elevation Service Area – Elevated Storage Tanks

Line	Description	Value
1	Minimum Storage Requirements (gal/conn)	103
2	2013 Connections	277,230
3	2013 MHD (MG) ([1] * [2] / 1 million)	28.6
4	2023 Connections	302,699
5	2023 MHD (MG) ([1] * [4] / 1 million)	31.2
6	Study Period Increase in MHD (MG) ([5] – [3])	2.6

Available Capacity

Low Elevation Service Area – Elevated Storage Tanks

Line	Description	Value
1	2013 MHD (MG)	28.6
2	2013 Capacity (MG)	60.2
3	2023 MHD (MG)	31.2
4	2023 Capacity (MG)	69.2
5	Study Period Increase in Capacity (MG) ([4] – [2])	9.0
6	Available Existing Capacity (MG) ([2] – [1])	31.6
7	Available Existing Capacity ([6] / [2])	52.5%

Eligible Existing Assets and Future CIP

Low Elevation Service Area – Elevated Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (MG)	31.6
2	Study Period Increase in Capacity (MG)	9.0
3	Total Available Capacity (MG)	40.6
4	Study Period Increase in MHD (MG)	2.6
5	Eligible Available Capacity Allocation ([4] / [3])	6.5%

Eligible Existing Assets and Future CIP

Low Elevation Service Area – Elevated Storage Tanks

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	6.5%
2	Available Existing Capacity	52.5%
3	Value of Existing Assets	\$ 28,694,928
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 973,316
5	Value of Future CIP	\$ 30,059,940
6	Eligible Future CIP Value ([1] * [5])	\$ 1,938,933

Financing Costs

Low Elevation Service Area – Elevated Storage Tanks

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 973,316
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 632,655
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 26,545

- **Sum of Eligible Interest 2014-2043 = \$386,769**

2014 – 2023 Eligible CIP Costs

Elevated Storage Tanks

Existing Capacity				New CIP Capacity			Total Capacity	
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
High	3.3	0.4	0.1	6.3	1.2	0.0	9.6	1.7
Middle	20.9	1.3	0.5	24.9	2.7	0.0	45.8	4.5
Low	28.7	1.0	0.4	30.1	1.9	0.0	58.8	3.3
Total	52.9	2.7	1.0	61.3	5.8	0.0	114.2	9.5

Capacity Criteria

Systemwide – Well Pumps

Line	Description	Value
1	Average Daily Demand (gpcd)	127
2	Maximum Day Peaking Factor	2.03
3	2013 Population	1,674,505
4	2013 MDD (mgd) ([1] * [2] * [3] / 1 million)	431.7
5	2023 Population	1,904,466
6	2023 MDD (mgd) ([1] * [2] * [5] / 1 million)	491.0
7	Study Period Increase in MDD (mgd) ([6] – [4])	59.3

Available Capacity

Systemwide – Well Pumps

Line	Description	Value
1	2013 MDD (mgd)	431.7
2	2013 Capacity (mgd)	527.2
3	2023 MDD (mgd)	491.0
4	2023 Capacity (mgd)	579.7
5	Study Period Increase in Capacity (mgd) ([4] – [2])	52.5
6	Available Existing Capacity (mgd) ([2] – [1])	95.5
7	Available Existing Capacity ([6] / [2])	18.1%

Eligible Existing Assets and Future CIP

Systemwide – Well Pumps

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (mgd)	95.5
2	Study Period Increase in Capacity (mgd)	52.5
3	Total Available Capacity (mgd)	148.0
4	Study Period Increase in MDD (mgd)	59.3
5	Eligible Available Capacity Allocation ([4] / [3])	40.1%

Eligible Existing Assets and Future CIP

Systemwide – Well Pumps

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	40.1%
2	Available Existing Capacity	18.1%
3	Value of Existing Assets	\$ 84,892,370
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 6,159,638
5	Value of Future CIP	\$ 42,438,060
6	Eligible Future CIP Value ([1] * [5])	\$ 16,998,287

Financing Costs

Systemwide – Well Pumps

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 6,159,638
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 4,003,765
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 167,992

- **Sum of Eligible Interest 2014-2043 = \$2,447,673**

2014 – 2023 Eligible CIP Costs

Well Pumps

Existing Capacity				New CIP Capacity			Total Capacity	
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
ALL	84.9	6.2	2.4	42.4	17.0	0.0	127.3	25.6

Capacity Criteria

High Elevation Service Area – Transmission Mains

Line	Description	Value
1	Average Daily Demand (gpcd)	166
2	Maximum Hour Peaking Factor	3.38
3	2013 Population	44,747
4	2013 MHD (mgd) ([1] * [2] * [3] / 1 million)	25.1
5	2023 Population	65,826
6	2023 MHD (mgd) ([1] * [2] * [5] / 1 million)	36.9
7	Study Period Increase in MHD (mgd) ([6] – [4])	11.8

Available Capacity

High Elevation Service Area – Transmission Mains

Line	Description	Value
1	2013 MHD (mgd)	25.1
2	2013 Capacity (mgd)	88.3
3	2023 MHD (mgd)	36.9
4	2023 Capacity (mgd)	106.2
5	Study Period Increase in Capacity (mgd) ([4] – [2])	17.9
6	Available Existing Capacity (mgd) ([2] – [1])	63.2
7	Available Existing Capacity ([6] / [2])	71.6%

Eligible Existing Assets and Future CIP

High Elevation Service Area – Transmission Mains

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (mgd)	63.2
2	Study Period Increase in Capacity (mgd)	17.9
3	Total Available Capacity (mgd)	81.1
4	Study Period Increase in MHD (mgd)	11.8
5	Eligible Available Capacity Allocation ([4] / [3])	14.6%

Eligible Existing Assets and Future CIP

High Elevation Service Area – Transmission Mains

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	14.6%
2	Available Existing Capacity	71.6%
3	Value of Existing Assets	\$ 5,161,102
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 538,497
5	Value of Future CIP	\$ 9,657,521
6	Eligible Future CIP Value ([1] * [5])	\$ 1,407,906

Financing Costs

High Elevation Service Area – Transmission Mains

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 538,497
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 350,023
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 14,686

- **Sum of Eligible Interest 2014-2043 = \$213,984**

Capacity Criteria

Middle Elevation Service Area – Transmission Mains

Line	Description	Value
1	Average Daily Demand (gpcd)	133
2	Maximum Hour Peaking Factor	2.89
3	2013 Population	538,582
4	2013 MHD (mgd) ([1] * [2] * [3] / 1 million)	207.0
5	2023 Population	647,218
6	2023 MHD (mgd) ([1] * [2] * [5] / 1 million)	248.8
7	Study Period Increase in MHD (mgd) ([6] – [4])	41.8

Available Capacity

Middle Elevation Service Area – Transmission Mains

Line	Description	Value
1	2013 MHD (mgd)	207.0
2	2013 Capacity (mgd)	366.6
3	2023 MHD (mgd)	248.8
4	2023 Capacity (mgd)	413.7
5	Study Period Increase in Capacity (mgd) ([4] – [2])	47.1
6	Available Existing Capacity (mgd) ([2] – [1])	159.6
7	Available Existing Capacity ([6] / [2])	43.5%

Eligible Existing Assets and Future CIP

Middle Elevation Service Area – Transmission Mains

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (mgd)	159.6
2	Study Period Increase in Capacity (mgd)	47.1
3	Total Available Capacity (mgd)	206.7
4	Study Period Increase in MHD (mgd)	41.8
5	Eligible Available Capacity Allocation ([4] / [3])	20.2%

Eligible Existing Assets and Future CIP

Middle Elevation Service Area – Transmission Mains

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	20.2%
2	Available Existing Capacity	43.5%
3	Value of Existing Assets	\$ 21,425,603
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 1,884,647
5	Value of Future CIP	\$ 44,147,551
6	Eligible Future CIP Value ([1] * [5])	\$ 8,920,372

Financing Costs

Middle Elevation Service Area – Transmission Mains

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 1,884,647
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 1,225,021
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 51,400

- **Sum of Eligible Interest 2014-2043 = \$748,907**

Capacity Criteria

Low Elevation Service Area – Transmission Mains

Line	Description	Value
1	Average Daily Demand (gpcd)	122
2	Maximum Hour Peaking Factor	2.73
3	2013 Population	1,091,176
4	2013 MHD (mgd) ([1] * [2] * [3] / 1 million)	363.4
5	2023 Population	1,191,422
6	2023 MHD (mgd) ([1] * [2] * [5] / 1 million)	396.8
7	Study Period Increase in MHD (mgd) ([6] – [4])	33.4

Available Capacity

Low Elevation Service Area – Transmission Mains

Line	Description	Value
1	2013 MHD (mgd)	363.4
2	2013 Capacity (mgd)	449.6
3	2023 MHD (mgd)	396.8
4	2023 Capacity (mgd)	468.9
5	Study Period Increase in Capacity (mgd) ([4] – [2])	19.3
6	Available Existing Capacity (mgd) ([2] – [1])	86.2
7	Available Existing Capacity ([6] / [2])	19.2%

Eligible Existing Assets and Future CIP

Low Elevation Service Area – Transmission Mains

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Available Existing Capacity (mgd)	86.2
2	Study Period Increase in Capacity (mgd)	19.3
3	Total Available Capacity (mgd)	105.5
4	Study Period Increase in MHD (mgd)	33.4
5	Eligible Available Capacity Allocation ([4] / [3])	31.7%

Eligible Existing Assets and Future CIP

Low Elevation Service Area – Transmission Mains

- Existing available and new capacity used by study period growth customers

Line	Description	Value
1	Eligible Available Capacity Allocation	31.7%
2	Available Existing Capacity	19.2%
3	Value of Existing Assets	\$ 26,275,159
4	Eligible Existing Asset Value ([1] * [2] * [3])	\$ 1,594,176
5	Value of Future CIP	\$ 7,523,006
6	Eligible Future CIP Value ([1] * [5])	\$ 2,381,567

Financing Costs

Low Elevation Service Area – Transmission Mains

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 1,594,176
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 1,036,214
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 43,478

- **Sum of Eligible Interest 2014-2043 = \$633,483**

2014 – 2023 Eligible CIP Costs

Transmission Mains

Existing Capacity				New CIP Capacity			Total Capacity	
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
High	5.2	0.5	0.2	9.6	1.4	0.0	14.8	2.1
Middle	21.4	1.9	0.8	44.2	8.9	0.0	65.6	11.6
Low	26.3	1.6	0.6	7.5	2.4	0.0	33.8	4.6
Total	52.9	4.0	1.6	61.3	12.7	0.0	114.2	18.3

2014 – 2023 Eligible CIP Costs

System Development

Existing Capacity			New CIP Capacity			Total Capacity		
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
High	26.7	2.5	1.0	26.7	5.2	0.0	53.4	8.7
Middle	135.6	10.0	4.0	125.3	24.2	0.0	260.9	38.2
Low	166.8	8.9	3.5	74.2	15.0	0.0	241.0	27.4
Total	329.1	21.4	8.5	226.2	44.4	0.0	555.3	74.3

Calculated Impact Fee

High Elevation Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 2,507,245
2	Eligible Future CIP Capacity	\$ 5,171,873
3	Eligible Financing Costs	\$ 996,311
4	Total Eligible CIP ([1] + [2] + [3])	\$ 8,675,429
5	Change in EDUs (2014 - 2023)	8,783
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 988

Calculated Impact Fee

Middle Elevation Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 9,975,189
2	Eligible Future CIP Capacity	\$ 24,208,485
3	Eligible Financing Costs	\$ 3,963,870
4	Total Eligible CIP ([1] + [2] + [3])	\$ 38,147,544
5	Change in EDUs (2014 - 2023)	45,265
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 843

Calculated Impact Fee

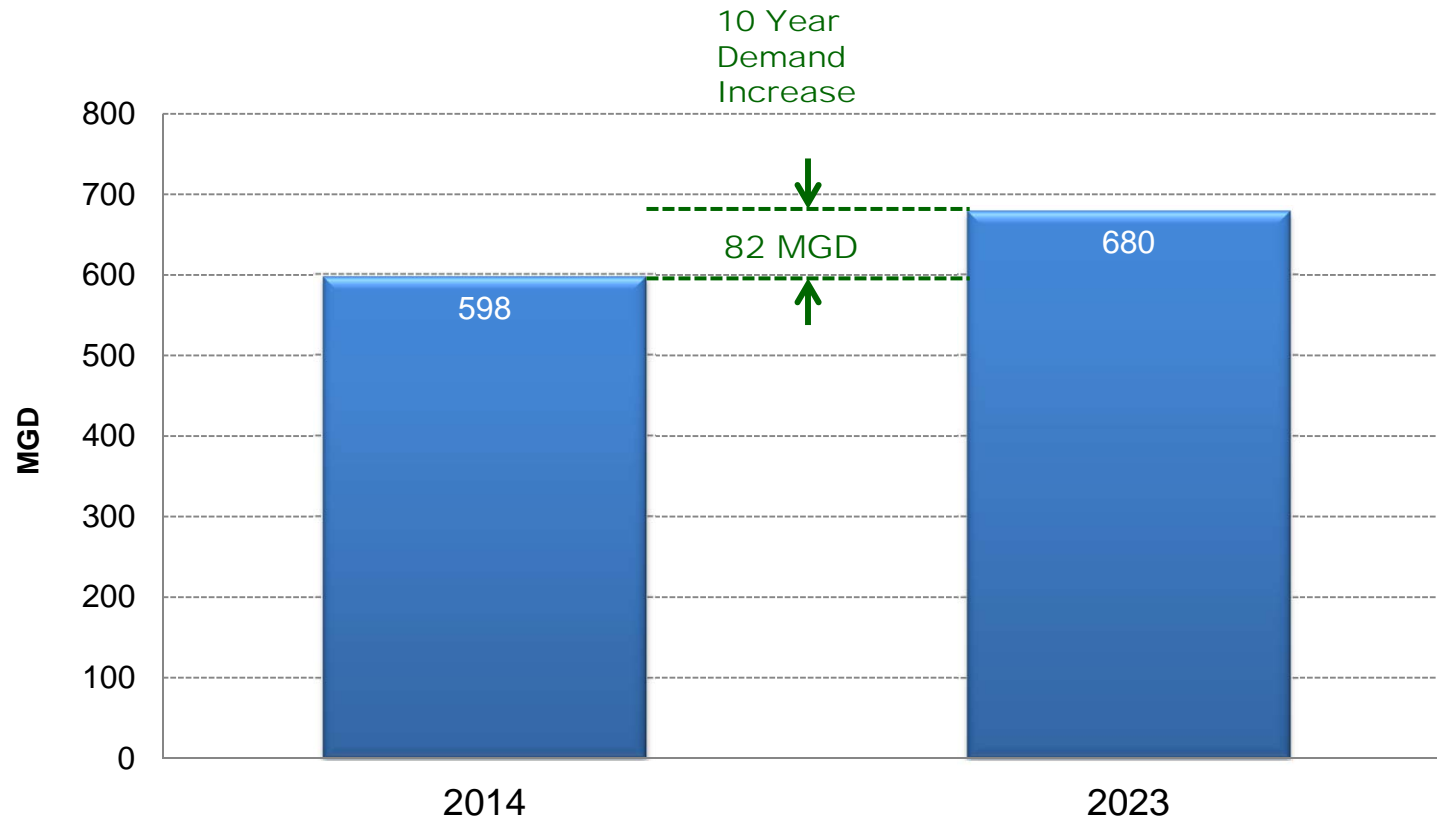
Low Elevation Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 8,865,973
2	Eligible Future CIP Capacity	\$ 15,055,337
3	Eligible Financing Costs	\$ 3,523,097
4	Total Eligible CIP ([1] + [2] + [3])	\$ 27,444,407
5	Change in EDUs (2014 - 2023)	41,769
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 657

WATER DELIVERY – FLOW

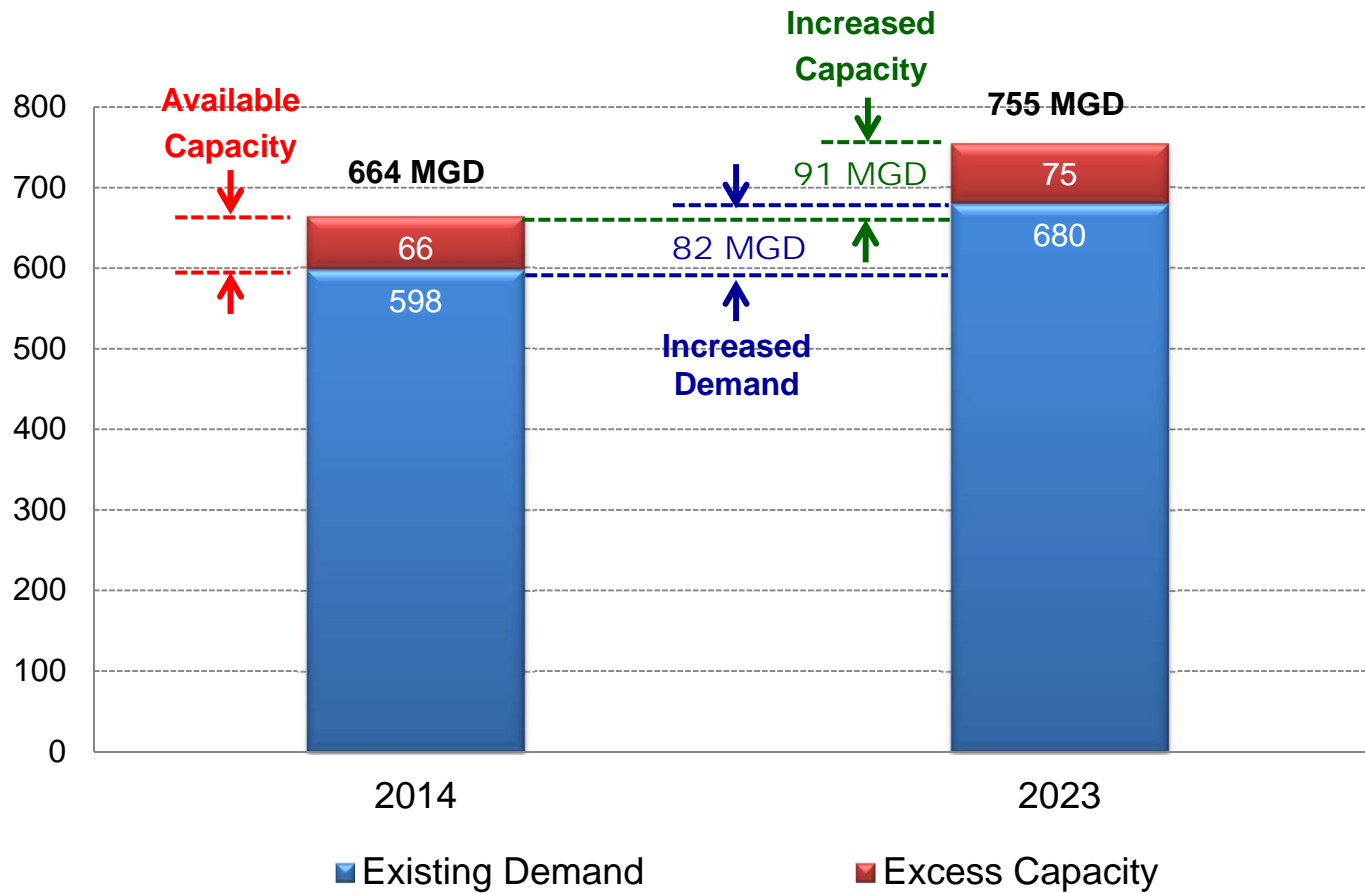


Water Flow Distribution Mains Eligible Capacities



Average day demand is assumed to be 127 gpcd and peaking factor is 2.81.

Water Flow Distribution Mains Capacities



Capacity Criteria

Systemwide

Line	Description	Value
1	Average Daily Demand (gpcd)	127
2	Maximum Hour Peaking Factor	2.81
3	2013 Population	1,674,505
4	2013 MHD (mgd) ([1] * [2] * [3] / 1 million)	598
5	2023 Population	1,904,466
6	2023 MHD (mgd) ([1] * [2] * [5] / 1 million)	680
7	Study Period Increase in MHD (mgd) ([6] – [4])	82

Available Capacity

Systemwide

- 10% excess capacity is assumed to be consistent
- Capacity = MHD / 90%

Line	Description	Value
1	2013 MHD (mgd)	598
2	2013 Capacity (mgd) ([1] / 90%)	664
3	2023 MHD (mgd)	680
4	2023 Capacity (mgd) ([3] / 90%)	755
5	Study Period Increase in Capacity (mgd) ([4] – [2])	91

Eligible Existing CIP

Systemwide

- 2023 MHD > 2013 Capacity
- Insufficient existing capacity available
- Additional future CIP capacity required

Line	Description	Value
1	2013 Capacity (mgd)	664
2	2013 MHD (mgd)	598
3	Available Existing Capacity (mgd) ([1] – [2])	66
4	Eligible Existing Capacity Allocation ([3] / [1])	10%
5	Existing Assets	\$ 610,839,391
6	Eligible Existing Capacity ([4] * [5])	\$ 61,083,939

Eligible Future CIP

Systemwide

- 2023 MHD > 2013 Capacity
- Insufficient existing capacity available
- Additional future CIP capacity required

Line	Description	Value
1	Study Period Increase in MHD (mgd)	82
2	Available Existing Capacity (mgd)	66
3	Remaining MHD (mgd) ([1] – [2])	16
4	Study Period Increase in Capacity (mgd)	91
5	Eligible Future CIP Capacity Allocation ([3] / [4])	17%
6	Future CIP	\$ 210,645,332
7	Eligible Future CIP Capacity ([5] * [6])	\$ 36,195,372

Financing Costs

Systemwide

- Pro rata share of future interest payments on outstanding debt
- Assume 65% of existing asset value is included in outstanding debt

Line	Description	Value
1	Total Outstanding Debt – Water Delivery	\$ 846,243,056
2	2014 Total Interest Payment for Outstanding Water Delivery Debt	\$ 35,507,157
3	Eligible Existing Capacity	\$ 61,083,939
4	Debt-funded Eligible Existing Capacity ([3] * 65%)	\$ 39,704,560
5	2014 Eligible Interest ([2] * [4] / [1])	\$ 1,665,947

- **Sum of Eligible Interest 2014-2043 = \$24,273,103**

2014 – 2023 Eligible CIP Costs

Existing Capacity				New CIP Capacity			Total Capacity	
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
ALL	610.8	61.1	24.3	210.7	36.2	0.0	821.5	121.6

Calculated Impact Fee

Systemwide

Line	Description	Value
1	Eligible Existing Capacity	\$ 61,083,939
2	Eligible Future CIP Capacity	\$ 36,195,372
3	Eligible Financing Costs	\$ 24,273,103
4	Total Eligible CIP ([1] + [2] + [3])	\$ 121,552,414
5	Change in EDUs (2014 - 2023)	95,817
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 1,269

WATER SUPPLY



2014 – 2023 Eligible CIP Costs

Existing Capacity				New CIP Capacity			Total Capacity	
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
ALL	294.2	7.3	0.0	713.9	275.1	0.0	1008.1	282.4

Calculated Impact Fee

Systemwide

Line	Description	Value
1	Eligible Existing Capacity	\$ 7,263,875
2	Eligible Future CIP Capacity	\$ 275,135,756
3	Eligible Financing Costs	\$ 0
4	Total Eligible CIP ([1] + [2] + [3])	\$ 282,399,631
5	Change in EDUs (2014 - 2023)	95,817
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 2,947

WASTEWATER TREATMENT



2014 – 2023 Eligible CIP Costs

Existing Capacity				New CIP Capacity			Total Capacity	
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
Medio Creek	62.2	7.4	3.0	25.5	3.0	0.0	87.7	13.4
Leon/ Dos Rios	317.6	34.6	13.9	215.0	24.8	0.0	532.6	73.3
Total	379.8	42.0	16.9	240.5	27.8	0.0	620.3	86.7

Calculated Impact Fee

Medio Creek Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 7,391,911
2	Eligible Future CIP Capacity	\$ 3,033,424
3	Eligible Financing Costs	\$ 2,960,785
4	Total Eligible CIP ([1] + [2] + [3])	\$ 13,386,120
5	Change in EDUs (2014 - 2023)	9,184
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 1,458

Calculated Impact Fee

Leon Creek / Dos Rios Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 34,653,496
2	Eligible Future CIP Capacity	\$ 24,765,481
3	Eligible Financing Costs	\$ 13,880,246
4	Total Eligible CIP ([1] + [2] + [3])	\$ 73,299,223
5	Change in EDUs (2014 - 2023)	90,147
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 813

WASTEWATER COLLECTION



2014 – 2023 Eligible CIP Costs

Existing Capacity				New CIP Capacity			Total Capacity	
Service Area	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of Capacity	Value of 2014-2023 Capacity	Eligible Financing Costs	Total Value of All Capacity	Total Value of 2014-2023 Capacity
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
Medio	17.4	2.2	0.9	29.7	5.1	0.0	47.1	8.2
U. Medina	34.6	9.7	3.9	32.4	8.4	0.0	67.0	22.0
L. Medina	28.5	6.5	2.6	25.5	2.7	0.0	54.0	11.8
U. Collect.	85.6	14.0	5.6	124.1	21.1	0.0	209.7	40.7
M. Collect.	153.1	14.3	5.7	292.5	18.7	0.0	445.6	38.7
L. Collect.	300.3	24.3	9.7	267.7	16.7	0.0	568.0	50.7
Total	619.5	71.0	28.4	771.9	72.7	0.0	1,391.4	172.1

Calculated Impact Fee

Medio Creek Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 2,200,862
2	Eligible Future CIP Capacity	\$ 5,152,499
3	Eligible Financing Costs	\$ 881,542
4	Total Eligible CIP ([1] + [2] + [3])	\$ 8,234,903
5	Change in EDUs (2014 - 2023)	9,184
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 897

Calculated Impact Fee

Lower Medina Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 6,469,172
2	Eligible Future CIP Capacity	\$ 2,697,496
3	Eligible Financing Costs	\$ 2,591,187
4	Total Eligible CIP ([1] + [2] + [3])	\$ 11,757,855
5	Change in EDUs (2014 - 2023) ¹	23,387
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 503

¹ Upper Medina included

Calculated Impact Fee

Upper Medina Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 9,732,434
2	Eligible Future CIP Capacity	\$ 8,368,236
3	Eligible Financing Costs	\$ 3,898,267
4	Total Eligible CIP ([1] + [2] + [3])	\$ 21,998,937
5	Change in EDUs (2014 - 2023)	19,478
6	Lower Medina Impact Fee	\$ 503
7	Calculated Impact Fee per EDU ([4] / [5] + [6])	\$ 1,632

Calculated Impact Fee

Lower Collection Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 24,270,798
2	Eligible Future CIP Capacity	\$ 16,679,076
3	Eligible Financing Costs	\$ 9,721,520
4	Total Eligible CIP ([1] + [2] + [3])	\$ 50,671,394
5	Change in EDUs (2014 - 2023) ¹	66,760
6	Calculated Impact Fee per EDU ([4] / [5])	\$ 759

¹ Upper Collection and Middle Collection included

Calculated Impact Fee

Middle Collection Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 14,289,569
2	Eligible Future CIP Capacity	\$ 18,715,229
3	Eligible Financing Costs	\$ 5,723,600
4	Total Eligible CIP ([1] + [2] + [3])	\$ 38,728,397
5	Change in EDUs (2014 - 2023) ¹	49,605
6	Lower Collection Impact Fee	\$ 759
7	Calculated Impact Fee per EDU ([4] / [5] + [6])	\$ 1,540

¹ Upper Collection included

Calculated Impact Fee

Upper Collection Service Area

Line	Description	Value
1	Eligible Existing Capacity	\$ 14,053,146
2	Eligible Future CIP Capacity	\$ 21,065,904
3	Eligible Financing Costs	\$ 5,628,902
4	Total Eligible CIP ([1] + [2] + [3])	\$ 40,747,952
5	Change in EDUs (2014 - 2023)	37,085
6	Middle Collection Impact Fee	\$ 1,540
7	Calculated Impact Fee per EDU ([4] / [5] + [6])	\$ 2,639

COMPARISON OF CALCULATED IMPACT FEES



Water Impact Fees

Impact Fee Category	Service Area	2013 Calculated Impact Fee per EDU	2010 Calculated Impact Fee per EDU	Change
Water Supply	All	\$ 2,947	\$ 1,440	\$ 1,507
Water Delivery – Flow	All	1,269	1,333	(64)
Water Delivery – System Development	High Elevation	988	996	(8)
	Middle Elevation	843	803	40
	Low Elevation	657	609	48

Wastewater Impact Fees

Impact Fee Category	Service Area	2013 Calculated Impact Fee per EDU	2010 Calculated Impact Fee per EDU	Change
Treatment	Medio Creek	\$ 1,458	\$ 1,482	(\$ 24)
	Leon / Dos Rios	813	581	232
Collection	Medio Creek	897	597	300
	Upper Medina	1,632	1,073	559
	Lower Medina	503	602	(99)
	Upper Collection	2,639	1,880	759
	Middle Collection	1,540	1,203	337
	Lower Collection	759	579	180

RATE CREDIT CALCULATIONS



Rate Credit: Water Delivery - Flow

Line	Description	Value
1	2014 Eligible Existing Debt Service	\$ 2,893,645
2	2014 Beginning Water Delivery Service Units	697,710
3	2023 Year-end Water Delivery Service Units	793,528
4	Water Delivery Annual Growth Rate	1.30%
5	2014 Increase in Water Delivery Service Units ([2] * [4])	9,037
6	2014 Year-end Water Delivery Service Units ([2] + [5])	706,747
7	2014 Eligible Debt Service per Service Unit ([1] / [6])	\$ 5.53
8	2014 Eligible Rate Credit ([5] * [7])	\$ 37,000

- **Sum of Eligible Existing Debt Service 2014-2043 = \$5,691,083**

Eligible Future Debt Service: Water Delivery – Flow

- Assume 10% of study period CIP is funded annually
- Assume 20% of CIP is funded with debt

Line	Description	Value
1	Eligible Future CIP	\$ 36,195,372
2	2014 Eligible Debt-funded Future CIP ([1] * 10% * 20%)	\$ 723,907
3	2014 Eligible Future CIP Principal Payment	\$ 11,063

Rate Credit: Water Delivery - Flow

Line	Description	Value
1	2014 Eligible Future CIP Principal Payment	\$ 11,063
2	2014 Beginning Service Units	697,710
3	2023 Year-end Service Units	793,528
4	Annual Growth Rate	1.30%
5	2014 Increase in Service Units ([2] * [4])	9,037
6	2014 Year-end Service Units ([2] + [5])	706,747
7	2014 Eligible Future CIP Principal Payment per Service Unit ([1] / [6])	\$ 0.02
8	2014 Eligible Rate Credit ([5] * [7])	\$ 141

- **Sum of Eligible Future CIP Principal 2014-2043 = \$723,588**

Maximum Impact Fee: Water Delivery

- Flow

Line	Description	Value
1	Calculated Impact Fee per EDU	\$ 1,269
2	Eligible Existing Debt Service Rate Credit	\$ 5,691,083
3	Eligible Future CIP Principal Rate Credit	\$ 723,588
4	Change in EDUs (2014 - 2023)	95,817
5	Rate Credit per EDU $(([2] + [3]) / [4])$	\$ 67
6	Maximum Impact Fee per EDU $([1] - [5])$	\$ 1,202

PRELIMINARY MAXIMUM IMPACT FEES



Water Maximum Impact Fees

Impact Fee Category	Service Area	Calculated Impact Fee per EDU	Rate Credit	Maximum Impact Fee per EDU
Water Supply	All	\$ 2,947	\$ 295	\$ 2,652
Water Delivery – Flow	All	1,269	67	1,202
Water Delivery – System Development	High Elevation	988	31	957
	Middle Elevation	843	28	815
	Low Elevation	657	26	631

Wastewater Maximum Impact Fees

Impact Fee Category	Service Area	Calculated Impact Fee per EDU	Rate Credit	Maximum Impact Fee per EDU
Treatment	Medio Creek	\$ 1,458	\$ 81	\$ 1,377
	Leon / Dos Rios	813	47	766
Collection	Medio Creek	897	25	872
	Upper Medina	1,632	90	1,542
	Lower Medina	503	34	469
	Upper Collection	2,639	115	2,524
	Middle Collection	1,540	73	1,467
	Lower Collection	759	40	719

Water Impact Fees Comparison

Impact Fee Category	Service Area	2013 Maximum Impact Fee per EDU	Current Impact Fee per EDU	Change	
Water Supply	All	\$ 2,652	\$ 1,297	\$ 1,355	104%
Water Delivery – Flow	All	1,202	1,247	(45)	(4%)
Water Delivery – System Development	High	957	966	(9)	(1%)
	Middle	815	774	41	5%
	Low	631	579	52	9%

Wastewater Impact Fees Comparison

Impact Fee Category	Service Area	2013 Maximum Impact Fee per EDU	Current Impact Fee per EDU	Change	
Treatment	Medio	\$ 1,377	\$ 1,379	(2)	0%
	Leon/Dos	766	552	214	39%
Collection	Medio	872	582	290	50%
	U. Medina	1,542	1,053	489	46%
	L. Medina	469	594	(125)	(21%)
	U. Coll.	2,524	1,795	729	41%
	M. Coll.	1,467	1,142	325	28%
	L. Coll.	719	552	167	30%

DRAFT – SAWS Proposed Total Impact Fees

Water Service Area	Wastewater Service Area	Proposed Impact Fee per EDU	Current Impact Fee per EDU	Increase / (Decrease)
High Elevation	Medio Creek	\$ 7,060	\$ 5,471	\$ 1,589
High Elevation	Upper Collection	8,101	5,857	2,244
Middle Elevation	Medio Creek	6,918	5,279	1,639
Middle Elevation	Upper Medina	6,977	4,923	2,054
Middle Elevation	Upper Collection	7,959	5,665	2,294
Middle Elevation	Middle Collection	6,902	5,012	1,890
Low Elevation	Medio Creek	6,734	5,084	1,650
Low Elevation	Upper Medina	6,793	4,728	2,065
Low Elevation	Lower Medina	5,720	4,269	1,451
Low Elevation	Upper Collection	7,775	5,470	2,305
Low Elevation	Middle Collection	6,718	4,817	1,901
Low Elevation	Lower Collection	5,970	4,227	1,743

DRAFT – DSP Proposed Total

DSP Service Area	Water Service Area	Wastewater Service Area	Proposed Impact Fee per EDU	Current Impact Fee per EDU	Increase/ (Decrease)
Hill Country	Middle Elev.	Upper Coll.	\$ 7,959	\$ 7,835	\$ 124
Hill Country	Middle Elev.	Middle Coll.	6,902	7,182	(280)
Hill Country	Low Elevation	Middle Coll.	6,718	7,182	(464)
Northeast	Low Elevation	Middle Coll.	6,718	3,360	3,358
Southeast	Low Elevation	Lower Coll.	5,970	3,395	2,575
Southeast	Low Elevation	Lower Medina	5,720	3,437	2,283
Southside	Low Elevation	Lower Coll.	5,970	3,494	2,476
Southside	Low Elevation	Upper Medina	6,793	3,995	2,798
Southside	Low Elevation	Lower Medina	5,720	3,536	2,184
Northwest	High Elevation	Upper Coll.	8,101	6,959	1,142
Northwest	Middle Elev.	Medio Creek	6,918	6,573	345
Northwest	Middle Elev.	Upper Medina	6,977	6,217	760
Northwest	Low Elevation	Medio Creek	6,734	6,573	161
Northwest	Low Elevation	Upper Medina	6,793	6,217	576

QUESTIONS ?