CITY OF BEND

Final Report for

SEWER SYSTEM DEVELOPMENT CHARGE STUDY

June, 2015

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SECTION 1: INTRODUCTION

This section describes the legal context and scope of engagement upon which the body of this report is based. It concludes with an overview of the calculation approach employed in subsequent sections of this report.

LEGAL CONTEXT

Oregon Revised Statutes ("ORS") 223.297 to 223.314 authorize local governments to establish system development charges ("SDCs"). These are one-time fees on new development, and they are paid at the time of development. SDCs are intended to recover a fair share of the cost of existing and planned facilities that provide capacity to serve future growth.

ORS 223.299 defines two types of SDC:

- A reimbursement fee that is designed to recover "costs associated with capital improvements already constructed, or under construction when the fee is established, for which the local government determines that capacity exists"
- An improvement fee that is designed to recover "costs associated with capital improvements to be constructed"

ORS 223.304(1) states, in part, that a reimbursement fee must be based on "the value of unused capacity available to future system users or the cost of existing facilities" and must account for prior contributions by existing users and any gifted or grant-funded facilities. The calculation must "promote the objective of future system users contributing no more than an equitable share to the cost of existing facilities." A reimbursement fee may be spent on any capital improvement related to the system for which it is being charged (whether cash-financed or debt-financed).

ORS 223.304(2) states, in part, that an improvement fee must be calculated to include only the cost of projected capital improvements needed to increase system capacity for future users. In other words, the cost of planned projects that correct existing deficiencies or that do not otherwise increase capacity for future users may not be included in the improvement fee calculation. An improvement fee may be spent only on capital improvements (or portions thereof) that increase the capacity of the system for which it is being charged (whether cash-financed or debt-financed).

Chapter 12.10 of the Bend code ("BC") authorizes the imposition of SDCs within the city of Bend based on the statutory authority described above. BC 12.10.040A requires that "any resolutions setting or amending the amount of any SDC shall state the amount of the charge and the methodology used to set the amount of the charge."

ENGAGEMENT

The City of Bend ("City") last updated its water and sewer SDC methodologies in 2008. On July 1, 2014, the City engaged FCS GROUP ("us") to provide new methodologies and SDC calculations for water and sewer based on current assumptions and conditions. This report is the proposed

methodology for sewer, and it contains a proposed schedule of sewer SDCs. The City expects to update the methodology for water after the water master plan is updated in 2016.

COMPUTATIONAL OVERVIEW

In general, SDCs are calculated by adding a reimbursement fee component (if applicable) and an improvement fee component—both with potential adjustments. Each component is calculated by dividing the eligible cost by projected growth in units of demand. The unit of demand becomes the basis of the charge. Below are details on the components and relevant adjustments.

Reimbursement Fee

The reimbursement fee is the cost of available capacity per unit of growth that such available capacity will serve. In order for a reimbursement fee to be calculated, unused capacity must be available to serve future growth. For facility types that do not have excess capacity, no reimbursement fee may be charged.

Improvement Fee

The improvement fee is the cost of capacity-increasing capital projects per unit of growth that those projects will serve. The unit of growth becomes the basis of the fee. In reality, the capacity added by many projects serves a dual purpose of both meeting existing demand and serving future growth. To compute a compliant SDC rate, growth-related costs must be isolated, and costs related to current demand must be excluded.

We have used the "capacity approach" to allocate costs to the improvement fee basis.[1] Under this approach, the cost of a given project is allocated to growth by the portion of total project capacity that represents capacity for future users. That portion, sometimes known as the improvement fee eligibility percentage, is multiplied by the total project cost to determine that project's improvement fee cost basis.

Adjustments

Two cost basis adjustments are potentially applicable to both reimbursement and improvement fees: fund balance and compliance costs. First, to the extent that SDC revenue is currently available in a fund balance, that revenue should be deducted from its corresponding cost basis. Second, ORS 223.307(5) authorizes the expenditure of SDCs on "the costs of complying with the provisions of ORS 223.297 to 223.314, including the costs of developing system development charge methodologies and providing an annual accounting of system development charge expenditures." To avoid spending monies for compliance that might otherwise have been spent on growth-related projects, this report includes an estimate of compliance costs in its SDCs.

Additional adjustments are potentially applicable to the reimbursement fee. If existing assets were financed with debt, the outstanding principal should be deducted from the cost basis before applying a percentage for available capacity. This deduction recognizes that new users will contribute (via utility rates) the repayment of that debt. Similarly, if existing assets were financed with grants or gifts, the value of those grants or gifts should be deducted from the cost basis before applying a

[1] Two alternatives to the capacity approach are the incremental approach and the causation approach. The incremental approach is computationally complicated, because it requires the computation of hypothetical project costs to serve existing users. Only the incremental cost of the actual project is included in the improvement fee cost basis. The causation approach, which allocates 100 percent of all growth-related projects to growth, is vulnerable to legal challenge.

percentage for available capacity. This deduction recognizes that new users should not reimburse the City for expenses that were actually borne by another agency.

SECTION 2: ANALYSIS

This section provides detailed calculations of the recommended sewer SDCs. These calculations are based on inputs (like growth assumptions and cost estimates) that have been reviewed and refined in a rigorous public process. Participants in this process included engineering consultants Murray, Smith & Associates ("MSA") and CH2M Hill, City staff, and the Sewer Infrastructure Advisory Group.

GROWTH

To be consistent with both the City's current practice and industry standards, we measure demand for sewer facilities in equivalent dwelling units (EDUs). One EDU represents the burden on the sewer system of the average single-family residence. Based on the data provided in Exhibit 1, we calculate that burden to be an average dry weather flow of 200 gallons per day (total residential flow of 4.90 million gallons per day divided by 24,469 residential accounts):

Exhibit 1

Growth in Customers	Fiscal Year 2013-14	Fiscal Year 2033-34	20-Year Growth
Accounts:			
Residential	24,469	45,426	20,957
Commercial	2,189	4,064	1,875
Total accounts	26,658	49,490	22,831
Average dry weather flow:			
Residential (gpd)	4,900,000		
Commercial (gpd)	1,300,000		
Total average dry weather flow (gpd)	6,200,000	11,510,000	5,310,000
Average dry weather flow per EDU (gpd)	200		
Equivalent dwelling units (EDUs):			
Residential	24,469	45,426	20,957
Commercial	6,492	12,052	5,560
Total EDUs	30,961	57,478	26,517
EDUs per commercial account	2.97	2.97	
EDUs to be served by northeast interceptor			1,810

Source: FCS GROUP (revenue requirement model); Collection System Master Plan, 2014, Tables 3-8 and 3-12; Shad Roundy, e-mail, 04/10/2015. **Abbreviations**: EDU = equivalent dwelling unit; gpd = gallons per day.

According to the Collection System Master Plan that was completed in 2014, average dry weather flow will grow by 5.31 million gallons per day by the end of the planning period in fiscal year 2033-34. This additional flow represents 26,517 new EDUs over the planning period. These 26,517 EDUs therefore become the denominator in our SDC calculations.

REIMBURSEMENT FEE

The total original cost of the City's sewer-related assets (net of developer contributions) is $161 million. City staff reviewed their own records and coordinated with the City's engineering

consultants (MSA for collection assets and CH2M Hill for treatment assets) to determine which assets have available capacity and in which functions of the sewer utility. They determined that, on average, 15 percent of the capacity of those assets is available to serve future users of the sewer utility. This percentage represents that portion of costs that can be recovered in a reimbursement fee. The gross reimbursement fee cost basis is therefore $24 million.

From this total we make two deductions. First, we deduct $6 million of outstanding debt, because new users will contribute (via sewer rates) to the repayment of that debt. Second, we deduct $6 million in grant funding that the City received for existing sewer-related assets, because the City cannot require reimbursement of costs borne by another agency. Finally, we add $26 million of work in process, because ORS 223.299(3) allows a reimbursement fee to recover "costs associated with capital improvements already constructed, *or under construction when the fee is established*, for which the local government determines that capacity exists" (emphasis added). After these three adjustments, the net reimbursement fee cost basis is $39 million. Dividing this cost basis by growth of 26,517 EDUs results in a reimbursement fee of $1,466 per EDU.

Exhibit 2 shows the detailed calculations for the reimbursement fee:

Exhibit 2

Reimbursement Fee	Original Cost	Available Capacity	Reimbursement Fee Cost Basis
Assets by function:			
Collection - Sewer Lines	$ 99,550,905	7.44%	$ 7,410,072
Collection - Pumping	7,365,247	0.00%	-
Treatment - Headworks	8,944,770	33.33%	2,981,590
Treatment - Screening	223,055	0.00%	-
Treatment - Aeration	904,084	0.00%	-
Treatment - Secondary	6,131,859	0.00%	-
Treatment - Primary	3,029,154	0.00%	-
Treatment - Reuse and Disinfection	5,694,617	0.00%	-
Treatment - Biosolids Handling and Septage	7,854,528	40.00%	3,141,811
Treatment - Support (Treatment All Other)	16,722,631	49.58%	8,291,052
General	4,505,383	49.58%	2,233,761
Total assets by function	$ 160,926,233	14.95%	24,058,287
Less outstanding debt	$ (39,945,938)	14.95%	(5,971,872)
Less grant-funded projects	(37,687,592)	14.95%	(5,634,252)
Plus work in process from project lists	41,376,234	63.83%	26,412,490
Net reimbursement fee costs basis			$ 38,864,653
Growth in EDUs			26,517
Reimbursement fee per EDU			**$ 1,466**

Source: City staff and CH2M Hill. **Abbreviations**: EDU = equivalent dwelling unit.

IMPROVEMENT FEE

The total cost of planned projects for the sewer utility (net of work in process) is $125 million. Individual projects were allocated between existing and future users based upon the input of City staff and the City's consulting engineers. On average, 60 percent of each project will create capacity for new users of the sewer utility. This percentage represents that portion of costs that can be recovered in an improvement fee. The improvement fee cost basis is therefore $75 million. Dividing this cost basis by growth of 26,517 EDUs results in an improvement fee of $2,842 per EDU.

Exhibit 3 summarizes these calculations, while detailed project lists can be found in the appendix:

Exhibit 3

Improvement Fee	Project Cost to City	Improvement Fee Eligibility	Improvement Fee Cost Basis
Projects by function:			
Collection	$ 89,630,327	57.20%	$ 51,268,691
Treatment	76,764,085	65.80%	50,510,740
Less work in process moved to reimbursement fee	(41,376,234)	63.83%	(26,412,490)
Total projects by function	$ 125,018,177	60.28%	$ 75,366,941
Growth in EDUs			26,517
Improvement fee per EDU			**$ 2,842**

Source: Engineering consultants MSA (collection projects) and CH2M Hill (treatment projects and work in process).
Abbreviations: EDU = equivalent dwelling unit.

ADJUSTMENTS AND TOTAL SDC

Before calculating the total SDC, we must adjust the total charge upward for the costs of compliance (as authorized in ORS 223.307) and downward for existing fund balance. The City advised us that their costs of compliance are $44,257 per year and that there is no existing sewer SDC fund balance. As Exhibit 4 shows, these adjustment result in a net increase of $33 per EDU:

Exhibit 4

SDC Adjustments	
Annualized administrative costs	
Community Development	$ 21,500
Finance	22,757
Total annualized administrative costs	$ 44,257
Planning period in years	20
Adjustments over planning period	
Administrative costs over planning period	$885,144
Less SDC fund balance	-
Total adjustments over planning period	$885,144
Growth in EDUs	26,517
Adjustment per EDU	**$ 33**

Source: City staff; Collection System Master Plan, 2014.
Abbreviations: EDU = equivalent dwelling unit; SDC = system development charge.

Combining the reimbursement fee, improvement fee, and adjustments results in a total proposed SDC of $4,341 per EDU, as shown in Exhibit 5:

Exhibit 5

SDC Summary	SDC per EDU
Proposed SDC:	
Reimbursement fee	$ 1,466
Improvement fee	2,842
Adjustments	33
Total proposed SDC	**$ 4,341**
Current SDC (effective July, 2014)	$ 2,986
Proposed % change from current SDC	45.39%
Proposed $ change from current SDC	$ 1,355
Last calculated SDC (2008)	$ 2,800
Proposed % change from last calculated SDC	55.05%
Proposed $ change from last calculated SDC	$ 1,541

Abbreviations: EDU = equivalent dwelling unit; SDC = system development charge.

The proposed SDC represents an increase of $1,355 (or 45 percent) from the current sewer SDC of $2,986 per EDU.[1]

[1] The amount of the current sewer SDC is accurate as of the writing of this report. We understand that the city council may adopt a resolution increasing the current sewer SDC by 2.4 percent before the end of June, 2015.

SECTION 3: IMPLEMENTATION

This section addresses two issues related to implementing the SDCs developed in this report. The first issue is the application of charges to individual developments, and the second issue is the periodic indexing of charges.

APPLICATION OF CHARGES

To apply the SDCs recommended in this report to an individual development, the City must determine how many EDUs that development represents. The City has adopted a list of land uses with their corresponding number of EDUs in its annual fee resolution, and no changes are proposed to this list. We recommend that the City periodically review this list and, if appropriate, revise the number of EDUs assigned to individual land uses.

INDEXING

ORS 223.304 allows for the periodic indexing of system development charges for inflation, as long as the index used is:

> (A) A relevant measurement of the average change in prices or costs over an identified time period for materials, labor, real property or a combination of the three;
>
> (B) Published by a recognized organization or agency that produces the index or data source for reasons that are independent of the system development charge methodology; and
>
> (C) Incorporated as part of the established methodology or identified and adopted in a separate ordinance, resolution or order.

We recommend that the City continue its current practice of indexing its charges to the 20 City Average Construction Cost Index as published in the *Engineering News Record*.

APPENDIX: DETAILED PROJECT LISTS

This appendix provides detailed project lists to support the improvement fee calculations in Exhibit 3. MSA provided the list of collection projects, and CH2M Hill provided the list of treatment projects.

COLLECTION PROJECTS

Project ID	Project Group	Model ID	Project Type	Average Phasing Year	$ Estimate YR 2013	Growth Share (1- max exist flow / max future flow)
1-1-002-GS	Y00-05 - 1 - Southeast Interceptor	P218	GS	0	856,495	64%
1-1-004-GS	Y00-05 - 1 - Southeast Interceptor	P70	GS	0	629,359	64%
1-1-006-GS	Y00-05 - 1 - Southeast Interceptor	P217	GS	0	736,568	64%
1-1-008-GS	Y00-05 - 1 - Southeast Interceptor	P3	GS	0	416,976	66%
1-1-010-GS	Y00-05 - 1 - Southeast Interceptor	P4	GS	0	248,054	66%
1-1-012-GS	Y00-05 - 1 - Southeast Interceptor	P71	GS	0	241,329	65%
1-1-014-GS	Y00-05 - 1 - Southeast Interceptor	P5	GS	0	275,825	65%
1-1-016-GS	Y00-05 - 1 - Southeast Interceptor	P216	GS	0	77,088	65%
1-1-018-GS	Y00-05 - 1 - Southeast Interceptor	P215	GS	0	57,816	67%
1-1-020-GS	Y00-05 - 1 - Southeast Interceptor	P6	GS	0	35,724	67%
1-1-022-GS	Y00-05 - 1 - Southeast Interceptor	P7	GS	0	563,178	67%
1-1-024-GS	Y00-05 - 1 - Southeast Interceptor	P8	GS	0	213,909	67%
1-1-026-GS	Y00-05 - 1 - Southeast Interceptor	P214	GS	0	180,941	67%
1-1-028-GS	Y00-05 - 1 - Southeast Interceptor	P213	GS	0	91,190	67%
1-1-030-GS	Y00-05 - 1 - Southeast Interceptor	P212	GS	0	8,446	67%
1-1-032-GS	Y00-05 - 1 - Southeast Interceptor	P12	GS	0	32,023	67%
1-1-034-GS	Y00-05 - 1 - Southeast Interceptor	P211	GS	0	43,988	67%
1-1-036-GS	Y00-05 - 1 - Southeast Interceptor	P13	GS	0	35,542	67%
1-1-038-GS	Y00-05 - 1 - Southeast Interceptor	P14	GS	0	47,155	66%
1-1-040-GS	Y00-05 - 1 - Southeast Interceptor	P15	GS	0	200,711	66%
1-1-042-GS	Y00-05 - 1 - Southeast Interceptor	P17	GS	0	206,610	67%
1-1-044-GS	Y00-05 - 1 - Southeast Interceptor	P18	GS	0	87,193	68%
1-1-046-GS	Y00-05 - 1 - Southeast Interceptor	P16	GS	0	391,421	68%
1-1-048-GS	Y00-05 - 1 - Southeast Interceptor	P19	GS	0	294,413	68%
1-1-050-GS	Y00-05 - 1 - Southeast Interceptor	P20	GS	0	199,342	68%
1-1-052-GS	Y00-05 - 1 - Southeast Interceptor	P210	GS	0	257,763	68%
1-1-054-GS	Y00-05 - 1 - Southeast Interceptor	P21	GS	0	232,713	68%
1-1-056-GS	Y00-05 - 1 - Southeast Interceptor	P22	GS	0	56,885	68%
1-1-058-GS	Y00-05 - 1 - Southeast Interceptor	P23	GS	0	109,820	68%
1-1-060-GS	Y00-05 - 1 - Southeast Interceptor	P25	GS	0	67,048	68%
1-1-062-GS	Y00-05 - 1 - Southeast Interceptor	P24	GS	0	262,018	68%
1-1-064-GS	Y00-05 - 1 - Southeast Interceptor	P26	GS	0	103,105	68%
1-1-068-GS	Y00-05 - 1 - Southeast Interceptor	P27	GS	0	95,888	68%
1-1-070-GS	Y00-05 - 1 - Southeast Interceptor	P209	GS	0	135,068	68%
1-1-072-GS	Y00-05 - 1 - Southeast Interceptor	P28	GS	0	105,167	68%
1-1-074-GS	Y00-05 - 1 - Southeast Interceptor	P29	GS	0	290,756	68%
1-1-076-GS	Y00-05 - 1 - Southeast Interceptor	P73	GS	0	510,370	68%

Project ID	Project Group	Model ID	Project Type	Average Phasing Year	$ Estimate YR 2013	Growth Share (1- max exist flow / max future flow)
1-1-078-GS	Y00-05 - 1 - Southeast Interceptor	P30	GS	0	428,917	69%
1-1-080-GS	Y00-05 - 1 - Southeast Interceptor	P31	GS	0	141,254	69%
1-1-082-GS	Y00-05 - 1 - Southeast Interceptor	P32	GS	0	175,828	69%
1-1-084-GS	Y00-05 - 1 - Southeast Interceptor	P33	GS	0	189,618	69%
1-1-086-GS	Y00-05 - 1 - Southeast Interceptor	P34	GS	0	295,632	69%
1-1-088-GS	Y00-05 - 1 - Southeast Interceptor	P74	GS	0	384,582	69%
1-1-090-GS	Y00-05 - 1 - Southeast Interceptor	P35	GS	0	425,824	69%
1-1-092-GS	Y00-05 - 1 - Southeast Interceptor	P208	GS	0	78,360	69%
1-1-094-GS	Y00-05 - 1 - Southeast Interceptor	P207	GS	0	97,950	69%
1-1-096-GS	Y00-05 - 1 - Southeast Interceptor	P36	GS	0	130,943	69%
1-1-098-GS	Y00-05 - 1 - Southeast Interceptor	P206	GS	0	97,950	69%
1-1-100-GS	Y00-05 - 1 - Southeast Interceptor	P37	GS	0	305,191	69%
1-1-102-GS	Y00-05 - 1 - Southeast Interceptor	P38	GS	0	267,189	69%
1-1-104-GS	Y00-05 - 1 - Southeast Interceptor	P39	GS	0	355,712	70%
1-1-106-GS	Y00-05 - 1 - Southeast Interceptor	P75	GS	0	340,247	70%
1-1-108-GS	Y00-05 - 1 - Southeast Interceptor	P205	GS	0	435,103	71%
1-1-110-GS	Y00-05 - 1 - Southeast Interceptor	P76	GS	0	440,258	71%
1-1-112-GS	Y00-05 - 1 - Southeast Interceptor	P77	GS	0	245,390	71%
1-1-114-GS	Y00-05 - 1 - Southeast Interceptor	P78	GS	0	387,675	71%
1-1-116-GS	Y00-05 - 1 - Southeast Interceptor	P79	GS	0	520,982	71%
1-1-118-GS	Y00-05 - 1 - Southeast Interceptor	P42	GS	0	431,970	72%
1-1-120-GS	Y00-05 - 1 - Southeast Interceptor	P204	GS	0	175,406	72%
1-1-122-GS	Y00-05 - 1 - Southeast Interceptor	P43	GS	0	417,571	71%
1-1-124-GS	Y00-05 - 1 - Southeast Interceptor	P44	GS	0	349,526	71%
1-1-126-GS	Y00-05 - 1 - Southeast Interceptor	P80	GS	0	286,151	71%
1-1-128-GS	Y00-05 - 1 - Southeast Interceptor	P45	GS	0	298,217	72%
1-1-130-GS	Y00-05 - 1 - Southeast Interceptor	P203	GS	0	111,554	72%
1-1-132-GS	Y00-05 - 1 - Southeast Interceptor	P202	GS	0	64,158	72%
1-1-134-GS	Y00-05 - 1 - Southeast Interceptor	P81	GS	0	89,012	72%
1-1-136-GS	Y00-05 - 1 - Southeast Interceptor	P151	GS	0	194,208	71%
1-1-138-GS	Y00-05 - 1 - Southeast Interceptor	P82	GS	0	272,816	71%
1-1-140-GS	Y00-05 - 1 - Southeast Interceptor	P150	GS	0	156,928	71%
1-1-142-GS	Y00-05 - 1 - Southeast Interceptor	P201	GS	0	115,560	71%
1-1-144-GS	Y00-05 - 1 - Southeast Interceptor	P83	GS	0	97,124	71%
1-1-146-GS	Y00-05 - 1 - Southeast Interceptor	P84	GS	0	113,312	71%
1-1-148-GS	Y00-05 - 1 - Southeast Interceptor	P85	GS	0	375,243	71%
1-1-150-GS	Y00-05 - 1 - Southeast Interceptor	P200	GS	0	98,871	71%
1-1-152-GS	Y00-05 - 1 - Southeast Interceptor	P199	GS	0	26,662	71%
1-1-154-GS	Y00-05 - 1 - Southeast Interceptor	P46	GS	0	470,256	71%

Project ID	Project Group	Model ID	Project Type	Average Phasing Year	$ Estimate YR 2013	Growth Share (1- max exist flow / max future flow)
1-1-156-GS	Y00-05 - 1 - Southeast Interceptor	P198	GS	0	83,232	71%
1-1-158-GS	Y00-05 - 1 - Southeast Interceptor	P197	GS	0	65,314	70%
1-1-160-GS	Y00-05 - 1 - Southeast Interceptor	P196	GS	0	146,234	70%
1-1-162-GS	Y00-05 - 1 - Southeast Interceptor	P86	GS	0	278,394	70%
1-1-164-GS	Y00-05 - 1 - Southeast Interceptor	P87	GS	0	185,309	69%
1-1-166-GS	Y00-05 - 1 - Southeast Interceptor	P88	GS	0	215,475	69%
1-1-168-GS	Y00-05 - 1 - Southeast Interceptor	P89	GS	0	286,110	69%
2-1-031-GS	Y00-05 - 2 - SEI Associated	FUT_Div_GS_CLSWW0058-to-SE_MH508	GS	0	31,923	90%
2-1-040-GS	Y00-05 - 2 - SEI Associated	FUT_Div_GS_CLSWW0056-to-SE_MH504	GS	0	12,258	45%
2-1-070-GS	Y00-05 - 2 - SEI Associated	FUT_Div_GS_CMH007048-to-314	GS	0	37,750	0%
3-1-010-GS	Y00-05 - 3 - Colorado	FUT_Div_GS_Colorado	GS	0	29,714	50%
3-1-020-GS	Y00-05 - 3 - Colorado	FUT_Div_GS_CMH008574-to-CMN000016	GS	0	544,320	49%
3-1-030-GS	Y00-05 - 3 - Colorado	FUT_Par_GS_Div_Colorado_2	GS	0	755,940	49%
7-1-010-GS	Y00-05 - 7 - West of Hwy 97	FUT_Par_CMH001646-to-CMH001643	GS	0	174,109	31%
7-1-020-GS	Y00-05 - 7 - West of Hwy 97	FUT_Par_CMH001643-to-CMH001653	GS	0	503,250	34%
7-1-030-GS	Y00-05 - 7 - West of Hwy 97	FUT_Par_CMH001631-to-CMH001637	GS	0	310,880	26%
7-1-040-GS	Y00-05 - 7 - West of Hwy 97	FUT_Par_CMH001637-to-CMH001632	GS	0	687,192	33%
7-1-050-GS	Y00-05 - 7 - West of Hwy 97	FUT_Par_CMH001629-to-CMH003638	GS	0	533,062	45%
8-1-020-GS	Y00-05 - 8 - Miscellaneous	FUT_Par_CMH003480-to-CMH008510	GS	0	580,243	16%
1-2-002-GS	Y05-10 - 1 - Southeast Interceptor	P195	GS	5	161,262	69%
1-2-004-GS	Y05-10 - 1 - Southeast Interceptor	P47	GS	5	27,878	69%
1-2-006-GS	Y05-10 - 1 - Southeast Interceptor	P48	GS	5	106,567	68%
1-2-008-GS	Y05-10 - 1 - Southeast Interceptor	P49	GS	5	174,556	68%
1-2-010-GS	Y05-10 - 1 - Southeast Interceptor	P90	GS	5	173,978	68%
1-2-012-GS	Y05-10 - 1 - Southeast Interceptor	P91	GS	5	236,980	68%
1-2-014-GS	Y05-10 - 1 - Southeast Interceptor	P92	GS	5	290,156	68%
1-2-016-GS	Y05-10 - 1 - Southeast Interceptor	P50	GS	5	242,182	68%
1-2-018-GS	Y05-10 - 1 - Southeast Interceptor	P93	GS	5	279,174	68%
1-2-020-GS	Y05-10 - 1 - Southeast Interceptor	P94	GS	5	232,356	66%
1-2-022-GS	Y05-10 - 1 - Southeast Interceptor	P194	GS	5	128,150	66%
1-2-024-GS	Y05-10 - 1 - Southeast Interceptor	P193	GS	5	107,466	66%
1-2-026-GS	Y05-10 - 1 - Southeast Interceptor	P51	GS	5	115,560	66%
1-2-028-GS	Y05-10 - 1 - Southeast Interceptor	P52	GS	5	274,550	66%
1-2-030-GS	Y05-10 - 1 - Southeast Interceptor	P95	GS	5	148,546	66%
1-2-032-GS	Y05-10 - 1 - Southeast Interceptor	P53	GS	5	213,584	65%
1-2-034-GS	Y05-10 - 1 - Southeast Interceptor	P54	GS	5	189,752	65%
1-2-036-GS	Y05-10 - 1 - Southeast Interceptor	P149	GS	5	185,705	65%
1-2-038-GS	Y05-10 - 1 - Southeast Interceptor	P96	GS	5	157,794	65%
1-2-040-GS	Y05-10 - 1 - Southeast Interceptor	P192	GS	5	145,656	65%

Project ID	Project Group	Model ID	Project Type	Average Phasing Year	$ Estimate YR 2013	Growth Share (1- max exist flow / max future flow)
1-2-042-GS	Y05-10 - 1 - Southeast Interceptor	P57	GS	5	293,908	64%
1-2-044-GS	Y05-10 - 1 - Southeast Interceptor	P97	GS	5	514,494	64%
1-2-046-GS	Y05-10 - 1 - Southeast Interceptor	P148	GS	5	511,401	64%
1-2-048-GS	Y05-10 - 1 - Southeast Interceptor	P98	GS	5	131,009	64%
1-2-050-GS	Y05-10 - 1 - Southeast Interceptor	P58	GS	5	329,246	64%
1-2-052-GS	Y05-10 - 1 - Southeast Interceptor	P59	GS	5	137,564	64%
1-2-054-GS	Y05-10 - 1 - Southeast Interceptor	P191	GS	5	256,054	64%
1-2-056-GS	Y05-10 - 1 - Southeast Interceptor	P61	GS	5	142,766	64%
1-2-058-GS	Y05-10 - 1 - Southeast Interceptor	P190	GS	5	146,234	64%
1-2-060-GS	Y05-10 - 1 - Southeast Interceptor	P100	GS	5	145,078	64%
1-2-062-GS	Y05-10 - 1 - Southeast Interceptor	P62	GS	5	224,842	64%
1-2-064-GS	Y05-10 - 1 - Southeast Interceptor	P63	GS	5	418,022	65%
1-2-066-GS	Y05-10 - 1 - Southeast Interceptor	P101	GS	5	334,417	67%
1-2-068-GS	Y05-10 - 1 - Southeast Interceptor	P102	GS	5	32,368	76%
1-2-070-GS	Y05-10 - 1 - Southeast Interceptor	P64	GS	5	536,538	79%
1-2-072-GS	Y05-10 - 1 - Southeast Interceptor	P64B	GS	5	541,162	79%
1-2-200-GS	Y05-10 - 1 - Southeast Interceptor	P183B	GS	5	168,937	50%
1-2-202-GS	Y05-10 - 1 - Southeast Interceptor	P183	GS	5	80,481	50%
1-2-204-GS	Y05-10 - 1 - Southeast Interceptor	P184	GS	5	107,307	50%
1-2-206-GS	Y05-10 - 1 - Southeast Interceptor	P185	GS	5	166,036	50%
1-2-208-GS	Y05-10 - 1 - Southeast Interceptor	P186	GS	5	261,743	50%
1-2-210-GS	Y05-10 - 1 - Southeast Interceptor	P187	GS	5	184,888	50%
1-2-212-GS	Y05-10 - 1 - Southeast Interceptor	P188	GS	5	157,336	50%
1-2-214-GS	Y05-10 - 1 - Southeast Interceptor	P146	GS	5	197,939	50%
1-2-216-GS	Y05-10 - 1 - Southeast Interceptor	P180	GS	5	50,028	50%
1-2-218-GS	Y05-10 - 1 - Southeast Interceptor	P189	GS	5	165,311	50%
1-2-220-GS	Y05-10 - 1 - Southeast Interceptor	P145	GS	5	210,990	50%
1-2-222-GS	Y05-10 - 1 - Southeast Interceptor	P144	GS	5	80,877	50%
1-2-224-GS	Y05-10 - 1 - Southeast Interceptor	P181	GS	5	206,639	50%
2-2-005-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CLSWW0062-to-SE_MH22	GS	5	63,911	52%
2-2-010-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CLSWW0053-to-BR_MH-NB7	GS	5	882,312	94%
2-2-040-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CLSWW0055-to-CLSWW0057	GS	5	1,121,548	15%
2-2-050-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CLSWW0057-to-SE_MH442	GS	5	859,190	85%
2-2-070-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CLSWW0047-to-SE_MH314	GS	5	783,366	88%
2-2-080-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CLSWW0043-to-223	GS	5	286,903	56%
2-2-20-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CMH003545-to-SE_MH206	GS	5	50,347	17%
2-2-22-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CMH007940-to-SE_MH205	GS	5	41,492	27%
2-2-24-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CMH003013-to-SE_MH115	GS	5	-	51%
2-2-26-GS	Y05-10 - 2 - SEI Associated	FUT_Div_GS_CMH004337-to-SE_MH111	GS	5	-	60%

Project ID	Project Group	Model ID	Project Type	Average Phasing Year	$ Estimate YR 2013	Growth Share (1- max exist flow / max future flow)
2-3-010-GS	Y10-20 - 2 - SEI Associated	FUT_Div_GS_CLSWW0054-to-CMH009572	GS	10	1,760,520	85%
2-3-020-GS	Y10-20 - 2 - SEI Associated	FUT_Div_GS_CLSWW0061-to-SE_MH12	GS	10	240,540	76%
2-3-070-GS	Y10-20 - 2 - SEI Associated	FUT_Div_GS_CLS000048-to-SE_MH313	GS	10	226,626	49%
4-3-010-GS	Y10-20 - 4 - North Area FM	FUT_Div_GS_CMH009036-to-Riv2	GS	10	153,628	45%
4-3-020-GS	Y10-20 - 4 - North Area FM	FUT_Div_GS_Riv2-to-CMH000325	GS	10	1,358,215	45%
5-3-020-GS	Y10-20 - 5 - Northeast Interceptor	FUT_Div_GS_WS_2-to-WS_3	GS	10	2,470,284	66%
5-3-040-GS	Y10-20 - 5 - Northeast Interceptor	FUT_Div_GS_WS_3-to-NE-60	GS	10	1,843,821	66%
5-3-060-GS	Y10-20 - 5 - Northeast Interceptor	NE-70	GS	10	3,398,457	68%
5-3-080-GS	Y10-20 - 5 - Northeast Interceptor	FUT_Div_GS_CLSWW0012-to-NE-70	GS	10	1,432,500	74%
5-3-100-GS	Y10-20 - 5 - Northeast Interceptor	FUT_Div_GS_NE-70-to-NE-90	GS	10	1,579,615	72%
5-3-120-GS	Y10-20 - 5 - Northeast Interceptor	FUT_Div_GS_NE-90-to-CMH000185	GS	10	2,462,400	72%
5-3-140-GS	Y10-20 - 5 - Northeast Interceptor	FUT_Par_CMH000185-to-CMH000177	GS	10	2,660,078	72%
5-3-160-GS	Y10-20 - 5 - Northeast Interceptor	FUT_Par_CMH000178-to-J-1	GS	10	670,640	72%
6-3-010-GS	Y10-20 - 6 - NEI Associated	FUT_Div_GS_CLSWW0030-to-WS_INTERCEPTOR4	GS	10	291,830	58%
6-3-020-GS	Y10-20 - 6 - NEI Associated	FUT_Div_GS_Interceptor4-to-WS_2	GS	10	1,105,385	58%
6-3-030-GS	Y10-20 - 6 - NEI Associated	FUT_Div_GS_CLSWW0035-to-WS_1	GS	10	736,440	0%
6-3-038-GS	Y10-20 - 6 - NEI Associated	FUT_Div_GS_CLSWW0033-to-WS_1	GS	10	-	49%
6-3-040-GS	Y10-20 - 6 - NEI Associated	FUT_Div_WS_1-to-WS_INTERCEPTOR4	GS	10	638,388	56%
6-3-050-GS	Y10-20 - 6 - NEI Associated	FUT_Div_GS_CLSWW0031-to-NE-65	GS	10	39,721	66%
6-3-060-GS	Y10-20 - 6 - NEI Associated	FUT_Div_GS_NE-65-to-WS_3	GS	10	482,838	66%
6-3-070-GS	Y10-20 - 6 - NEI Associated	FUT_Div_GS_CLSWW0032-to-NE-60	GS	10	18,734	71%
6-3-080-GS	Y10-20 - 6 - NEI Associated	FUT_Div_GS_CLSWW0034-to-CLSWW0012	GS	10	598,884	15%
8-3-020-GS	Y10-20 - 8 - Miscellaneous	FUT_Par_CMH001394-to-CMH001416	GS	10	554,070	46%
8-3-040-GS	Y10-20 - 8 - Miscellaneous	FUT_Par_CMH009119-to-CMH009103	GS	10	94,622	80%
8-3-042-GS	Y10-20 - 8 - Miscellaneous	FUT_Par_CMH009095-to-CMH008162	GS	10	176,088	69%
8-3-060-GS	Y10-20 - 8 - Miscellaneous	FUT_Par_CMH002155-to-CMH002165	GS	10	46,046	54%
2-1-020-GS	Tri Peaks North Diversion	FUT_Div_GS_CLSWW0053-to-J-16	GS	0	-	NA
2-1-030-GS	Y00-05 - 2 - SEI Associated	Additional_CIP-SEI Local Area-8	GS	0	102,150	100%
2-1-032-GS	Y00-05 - 2 - SEI Associated	Additional_CIP-SEI Local Area-7	GS	0	121,218	100%
2-1-034-GS	Y00-05 - 2 - SEI Associated	Additional_CIP-SEI Local Area-4	GS	0	13,620	27%
2-1-060-GS	Y00-05 - 2 - SEI Associated	FUT_Div_GS_220-to-CMH002295	GS	0	132,288	0%
2-1-071-GS	Y00-05 - 2 - SEI Associated	FUT_Div_GS_CMH007048-to-314	GS	0	1,111,304	72%
4-1-010-GS	Y00-05 - 4 - North Area FM	FUT_Rep_CMH003157-to-CMH003150	GS	0	1,036,072	30%
2-2-020-GS	Y05-10 - 2 - SEI Associated	Additional_CIP-Kings Forest-1	GS	5	412,184	15%
2-2-060-GS	Y05-10 - 2 - SEI Associated	Additional_CIP-SEI Local Area-29	GS	5	1,080,747	15%
2-3-030-GS	Y10-20 - 2 - SEI Associated	Additional_CIP-SEI Local Area-28	GS	10	1,712,810	10%
2-3-050-GS	Y10-20 - 2 - SEI Associated	Additional_CIP-SEI Local Area-6	GS	10	70,370	15%
2-3-052-GS	Y10-20 - 2 - SEI Associated	Additional_CIP-SEI Local Area-5	GS	10	22,700	0%
2-3-054-GS	Y10-20 - 2 - SEI Associated	Additional_CIP-SEI Local Area-2	GS	10	322,340	15%

Project ID	Project Group	Model ID	Project Type	Average Phasing Year	$ Estimate YR 2013	Growth Share (1- max exist flow / max future flow)
2-3-056-GS	Y10-20 - 2 - SEI Associated	Additional_CIP-SEI Local Area-3	GS	10	145,280	15%
2-3-060-GS	Y10-20 - 2 - SEI Associated	Additional_CIP-SEI Local Area-30	GS	10	354,120	80%
2-3-080-GS	Y10-20 - 2 - SEI Associated	Additional_CIP-SEI Local Area-9	GS	10	513,590	33%
3-1-010-FM	Y00-05 - 3 - Colorado	FUT_FM_Div_Colorado_Stage_1	FM	0	788,872	46%
3-1-020-FM	Y00-05 - 3 - Colorado	FUT_FM_Div_Colorado_Stage_2	FM	0	759,089	46%
3-1-030-FM	Y00-05 - 3 - Colorado	FUT_FM_Div_Colorado_Stage_1b	FM	0	1,345,952	46%
3-1-040-FM	Y00-05 - 3 - Colorado	FUT_FM_Div_Colorado_Stage_2b	FM	0	1,367,441	46%
4-1-010-FM	Y00-05 - 4 - North Area FM	FUT_Div_FM_CLS000080-to-CMN000104	FM	0	839,510	27%
4-1-020-FM	Y00-05 - 4 - North Area FM	FUT_Div_FM_CMN000104-to-FUT_Div_FM_Riv1	FM	0	401,585	47%
4-1-030-FM	Y00-05 - 4 - North Area FM	FUT_Div_FM_Riv1-to-Riv2	FM	0	224,765	44%
4-1-040-FM	Y00-05 - 4 - North Area FM	FUT_Div_FM_CLS000078-to-CMH007896	FM	0	14,887	4%
8-2-020-FM	Y05-10 - 8 - Miscellaneous	FUT_Par_FM_CLS000070-to-CMH001647	FM	5	717,810	40%
9-1-002-GS	Y00-05 - 9 - Plant Interceptor	CGM008526	PI Rehab	0	192,778	47%
9-1-004-GS	Y00-05 - 9 - Plant Interceptor	CGM008525	PI Rehab	0	349,088	47%
9-2-006-GS	Y05-10 - 9 - Plant Interceptor	CGM008476	PI Rehab	5	314,322	47%
9-2-008-GS	Y05-10 - 9 - Plant Interceptor	CGM008477	PI Rehab	5	173,483	47%
3-1-010-LS	Y00-05 - 3 - Colorado	PS_Div_Colorado	New Pump	0	4,207,476	46%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Boyd Acres	LS Upgrade	0	345,000	32%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Canal View	LS Upgrade	0	150,000	29%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	River Canyon #2	LS Upgrade	0	345,000	63%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	River Rim	LS Upgrade	0	1,557,270	40%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Aspen Ridge	LS Upgrade	5	1,041,535	53%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Old Mill	LS Upgrade	5	345,000	38%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Quail Crossing	LS Upgrade	5	558,842	77%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Sawyer Park	LS Upgrade	5	345,000	42%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Pheasant Run	LS Upgrade	10	552,585	16%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Shevlin Commons	LS Upgrade	10	725,590	75%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Shevlin Meadows	LS Upgrade	10	345,000	40%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Riverhouse	LS Downsize	0	345,000	10%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Crown Villa #1	Decommission	0	28,000	100%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Crown Villa #2	Decommission	0	28,000	100%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Murphy	Decommission	0	28,000	59%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Quail Ridge #2	Decommission	0	28,000	0%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Ridgewater #1	Decommission	0	28,000	45%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Shadow Glen	Decommission	0	28,000	90%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Shevlin	Decommission	0	28,000	47%
10-1-LS	Y00-05 - 10 - LS Upgrade / Decommission	Sun Meadow	Decommission	0	28,000	9%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Anderson Ranch	Decommission	5	28,000	94%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Camden Park	Decommission	5	28,000	15%

Project ID	Project Group	Model ID	Project Type	Average Phasing Year	$ Estimate YR 2013	Growth Share (1- max exist flow / max future flow)
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Nottingham #1	Decommission	5	28,000	15%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Nottingham #2	Decommission	5	28,000	15%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Desert Skies	Decommission	5	28,000	88%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Forum	Decommission	5	28,000	56%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	Ridgewater #2	Decommission	5	28,000	85%
10-2-LS	Y05-10 - 10 - LS Upgrade / Decommission	South Village	Decommission	5	28,000	52%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Blue Ridge	Decommission	10	28,000	10%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Boyd Acres	Decommission	10	28,000	49%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Darnell Estates	Decommission	10	28,000	49%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Highland	Decommission	10	28,000	58%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Holiday Inn	Decommission	10	28,000	66%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Juniper Ridge	Decommission	10	28,000	74%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	North Pointe	Decommission	10	28,000	66%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Northwind	Decommission	10	28,000	72%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Phoenix	Decommission	10	28,000	15%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Quail Ridge #1	Decommission	10	28,000	0%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Simplicity	Decommission	10	28,000	80%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Stone Haven	Decommission	10	28,000	76%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	Summit Park	Decommission	10	28,000	33%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	The Pines #5	Decommission	10	28,000	15%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	The Pines #6	Decommission	10	28,000	15%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	The Pines #7	Decommission	10	28,000	15%
10-3-LS	Y10-20 - 10 - LS Upgrade / Decommission	The Shire	Decommission	10	28,000	33%
TOTAL COLLECTION SYSTEM CIP					**$ 89,630,327**	

TREATMENT PROJECTS

No	Description	Growth Share	
	General Conditions	49.6%	$2,053,133
	Submittals	49.6%	$36,488
	Procurement	49.6%	$13,446,818
	Sitework	49.6%	$515,261
	Electrical	49.6%	$334,892
	Start-up and Testing	49.6%	$259,823
	Yard Piping	49.6%	$912,491
	Blower Building B	100.0%	$1,466,383
	Aeration Basins	100.0%	$8,834,482
	Primary Influent Splitter	49.6%	$1,131,714
	Primary Clarifier #3	100.0%	$811,038
	Primary Clarifiers 1 & 2	49.6%	$160,352
	Plant Effluent Facility	49.6%	$3,871,076
	Primary Sludge Pump Station A	0.0%	$592,445
	Primary Sludge Pump Station B	100.0%	$1,168,809
	Blower Building A	49.6%	$22,969
	Hypochlorite Building	49.6%	$908,484
	Effluent Box	49.6%	$133,161
	Reuse Filter Pump Station	49.6%	$39,455
	Wet Well Pump Station - Potable Water	49.6%	$53,962
	Generator B	49.6%	$270,683
	Unit Prices (compaction grouting, IFAS equipment, allowances for: hidden utilities; PC1 and PC2 rehabilitation; control system hardware/software; IFAS foam suppression system)	49.6%	$3,653,541
	Water Reclamation Facility SCADA Network Upgrades	49.6%	$354,375
	Water Reclamation Facility Control Room	49.6%	$261,975
	Water Reclamation Facility DAFT Network Room	49.6%	$82,425

No	Description	Growth Share	
	Secondary Clarifier Splitter	100.0%	$442,496
	Secondary Clarifier	100.0%	$3,731,316
	Secondary Clarifier Piping Mods	100.0%	$2,344,032
	Upgraded RAS Pumps	100.0%	$2,941,999
	Upgraded WAS Pumps	100.0%	$1,961,333
	Repairs to Ponds 1 and 2	100.0%	$1,566,674
	A. Solids Handling	49.6%	$5,000,000
	B. Facilities Plan Update	49.6%	$500,000
	C. Support Facilities Upgrades (Lab, Admin, Maint.)	49.6%	$10,900,000
	D. Miscellaneous (Site Piping / Improvements)	49.6%	$6,000,000
TOTAL Water Reclamation Facility CIP			**$ 76,764,085**