

PREPARED FOR:

PREPARED BY:



TAYLORSVILLE - BENNION
IMPROVEMENT DISTRICT
WATER & SEWER IMPACT FEE ANALYSIS

OCTOBER 2020

PREPARED FOR:

PREPARED BY:



TAYLORSVILLE - BENNION
IMPROVEMENT DISTRICT
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TAYLORSVILLE - BENNION IMPROVEMENT DISTRICT

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TABLE OF CONTENTS

	Page No.
WATER IMPACT FEE ANALYSIS	
EXECUTIVE SUMMARY	ES-1
Introduction.....	ES-1
Why Assess an Impact Fee?.....	ES-1
How Are Impact Fees Calculated?	ES-1
Impact Fee Calculation	ES-1
Recommended Impact Fee	ES-3
 IMPACT FEE ANALYSIS.....	 1
Introduction.....	1
Impact on System - 11-36a-304(1)(a)(b).....	1
Relation of Impacts to Anticipated Development - 11-36a-304(1)(c)	3
Proportionate Share Analysis – 11 – 36A-304(d).....	4
Excess Capacity to Accommodate Future Growth	4
Existing System Infrastructure Costs	4
Reimbursement Agreements.....	5
Future Improvements.....	5
Planning and Impact Fee Studies.....	5
Impact Fee Calculation - 11-36a-304(1)(e).....	7
Recommended Impact Fee	8
Credit for User Fees	8
Recommended Impact Fee	8
Calculation of Non-Standard Impact Fees	9
Additional Considerations - 11-36a-304(2).....	10
Manner Of Financing - 11-36a-304(2)(a-e).....	10
User Charges.....	10
Special Assessments	10
Bonds.....	10
General Taxes.....	10
Federal and State Grants and Donations	10
Dedication of System Improvements - 11-36a-304(2)(f).....	11
Extraordinary Costs - 11-36a-304(2)(g)	11
Time-Price Differential - 11-36a-304(2)(h).....	11
Impact Fee Certification - 11-36a-306(2)	12

**TABLE OF CONTENTS
(continued)**

	Page No.
SEWER IMPACT FEE ANALYSIS	
EXECUTIVE SUMMARY	ES-1
Introduction.....	ES-1
Why Assess an Impact Fee?.....	ES-1
How Are Impact Fees Calculated?	ES-1
Impact Fee Calculation	ES-1
Recommended Impact Fee	ES-2
 IMPACT FEE ANALYSIS.....	 1
Introduction.....	1
Impact on System - 11-36a-304(1)(a)(b).....	2
Relation of Impacts to Anticipated Development - 11-36a-304(1)(c)	3
Proportionate Share Analysis – 11 – 36A-304(d).....	4
Excess Capacity to Accommodate Future Growth	4
Existing System Infrastructure Costs	4
Reimbursement Agreements.....	5
Future Improvements.....	5
Impact Fee Calculation - 11-36a-304(1)(e).....	6
Bonding Interest Costs	6
Credit for User Fees	6
Impact Fee Studies	9
Recommended Impact Fee	9
Calculation of Non-Standard Impact Fees	9
Additional Considerations - 11-36a-304(2).....	10
Manner Of Financing - 11-36a-304(2)(a-e).....	10
User Charges.....	10
Special Assessments	10
Bonds.....	10
General Taxes.....	10
Federal and State Grants and Donations	10
Dedication of System Improvements - 11-36a-304(2)(f).....	11
Extraordinary Costs - 11-36a-304(2)(g)	11
Time-Price Differential - 11-36a-304(2)(h).....	11
Impact Fee Certification - 11-36a-306(2)	12
 APPENDIX A – TAYLORSVILLE-BENNION IMPROVEMENT DISTRICT FIXED ASSET SUMMARY	
APPENDIX B – ANALYSIS OF CVWRF FOR IMPACT FEE CALCULATIONS	

**TABLE OF CONTENTS
(continued)**

LIST OF TABLES

No.	Title	Page No.
WATER IMPACT FEE ANALYSIS TABLES		
ES-1	Impact Fee Calculation per ERC	ES-2
ES-2	Recommended Impact Fee, by Meter Size	ES-3
1	Service Area ERU Projections	2
2	Use of Existing Capacity	4
3	Existing Infrastructure Costs	5
4	Impact Fee Eligible Capital Projects	5
5	Impact Fee Costs Associated with Studies per ERU	6
6	Impact Fee Calculation per ERU	7
7	Recommended Impact Fee, By Meter Size	8
SEWER IMPACT FEE ANALYSIS TABLES		
ES-1	Impact Fee Calculation per ERU	ES-2
ES-2	Maximum Allowable Impact Fee (Per ERU)	ES-2
1	Projected TBID Sewer System Growth	2
2	Use of Existing Capacity	4
3	Existing Infrastructure Costs	5
4	Impact Fee Eligible Capital Projects	5
5	Impact Fee Calculation per ERU	6
6	Credit for User Fees Paid Toward Existing	8
7	Maximum Allowable Impact Fee (Per ERU)	9

EXECUTIVE SUMMARY

INTRODUCTION

The purpose of the impact fee analysis (IFA) is to calculate the allowable impact fee that may be assessed to new development in accordance with Utah Code.

WHY ASSESS AN IMPACT FEE?

Until development utilizes the full capacity of existing facilities, the District can assess an impact fee to recover its cost of latent capacity available to serve future development. The general impact fee methodology divides the available capacity of existing and future capital projects between the number of existing and future users. Capacity is measured in terms of Equivalent Residential Connections, or ERCs, which represents the demand that a typical single-family residence places on the system.

HOW ARE IMPACT FEES CALCULATED?

A fair impact fee is calculated by dividing the cost of existing and future facilities by the amount of new growth that will benefit from the unused capacity. Only the capacity that is needed to serve the projected growth within in the next ten years is included in the fee. Costs used in the calculation of impact fees include:

- New facilities required to maintain (but not exceed) the proposed level of service in the system; only those expected to be built within ten years are considered in the final calculations of the impact fee.
- Historic costs of existing facilities that will serve new development
- Cost of professional services for engineering, planning, and preparation of the impact fee facilities plan and impact fee analysis

Costs not used in the impact fee calculation

- Operational and maintenance costs
- Cost of facilities constructed beyond 10 years
- Cost associated with capacity not expected to be used within 10 years
- Cost of facilities funded by grants, developer contributions, or other funds which the District is not required to repay
- Cost of renovating or reconstructing facilities which do not provide new capacity or needed enhancement of services to serve future development

IMPACT FEE CALCULATION

Impact fees for this analysis were calculated by dividing the proportional cost of facilities required to service 10-year growth by the amount of growth expected over the next 10-years based on ERCs. This is done for transmission, storage, and production facilities. Calculated impact fees by component are summarized in Table ES-1. Table ES-1 covers the cost of impacts on all facilities from growth within the Taylorsville-Bennion Improvement District service area.

**Table ES-1
Impact Fee Calculation per ERC**

System Components	Total Cost of Component	% Serving 10-year Growth	Cost Serving 10-year Growth	10-year ERUs Served	Cost Per ERC
Transmission Facilities					
Existing Facilities	\$42,708,021	6.1%	\$2,599,338	1,585	\$1,639.96
10-year Projects	\$1,762,900	40.2%	\$709,375	1,585	\$447.56
Subtotal	\$44,470,921		\$3,308,713		\$2,087.52
Storage Facilities					
Existing Facilities	\$1,330,305	6.6%	\$88,167	1,585	\$55.63
10-year Projects	\$0	0.0%	\$0	1,585	\$0.00
Subtotal	\$1,330,305		\$88,167		\$55.63
Production Facilities					
Existing Facilities	\$17,809,208	3.2%	\$564,766	1,585	\$356.32
10-year Projects	\$2,967,000	29.3%	\$868,155	1,585	\$547.73
Subtotal	\$20,776,208		\$1,432,921		\$904.05
Other					
Administrative & Shop Buildings	\$1,863,660	6.4%	\$119,461	1,585	\$75.37
Planning and Impact Fee Studies	\$32,956	83.3%	\$27,444	1,275	\$21.52
Subtotal	\$1,896,616		\$146,904		\$96.89
Total	\$68,474,050		\$4,747,945		\$3,144.09

RECOMMENDED IMPACT FEE

The total calculated impact fees are summarized in Table ES-2. Included in this table is the appropriate impact fee according to meter size. This is the legal maximum amount that may be charged as an impact fee. A lower amount may be adopted if desired, but a higher fee is not allowable under the requirements of Utah Code.

**Table ES-2
Recommended Impact Fee, By Meter Size**

Size of Meter (inch)	Operating Flow (gpm)	AWWA Capacity Ratios	Maximum Allowable Impact Fee
Displacement/Ultrasonic Meters			
Single Family Residential Equivalent 5/8	20	1	\$3,144.09
0.75	30	1.39	\$4,716.13
1	50	2.22	\$7,860.22
1.5	100	2.78	\$15,720.43
2	160	5.56	\$25,152.69
Class II Turbine Meters - High Velocity			
1.5	100	5.56	\$15,720.43
2	160	8.89	\$25,152.69
3	350	19.44	\$55,021.52
4	630	35.00	\$99,038.74
6	1400	77.78	\$220,086.08
8	2400	133.33	\$377,290.42
10	3800	211.11	\$597,376.50
12	5000	277.78	\$786,021.71
Compound/Ultrasonic Meters			
2	160	8.89	\$25,152.69
3	320	17.78	\$50,305.39
4	500	27.78	\$78,602.17
6	1000	55.56	\$157,204.34
8	1600	88.89	\$251,526.95
10	2300	127.78	\$361,569.99

IMPACT FEE ANALYSIS (WATER)

INTRODUCTION

Taylorsville-Bennion Improvement District (TBID) has retained Bowen Collins & Associates (BC&A) to prepare an impact fee analysis (IFA) for its water system based on a recently completed impact fee facilities plan. An impact fee is a one-time fee, not a tax, imposed upon new development activity as a condition of development approval to mitigate the impact of the new development on public infrastructure. The purpose of an IFA is to calculate the allowable impact fee that may be assessed to new development in accordance with Utah Code.

Requirements for the preparation of an IFA are outlined in Title 11, Chapter 36a of the Utah Code (the Impact Fees Act). Under these requirements, an IFA shall accomplish the following for each facility:

1. Identify the impact of anticipated development activity on existing capacity
2. Identify the impact of anticipated development activity on system improvements required to maintain the established level of service
3. Demonstrate how the impacts are reasonably related to anticipated development activity
4. Estimate the proportionate share of:
 - a. Costs of existing capacity that will be recouped
 - b. Costs of impacts on system improvements that are reasonably related to the new development activity
5. Identify how the impact fee was calculated
6. Consider the following additional issues
 - a. Manner of financing improvements
 - b. Dedication of system improvements
 - c. Extraordinary costs in servicing newly developed properties
 - d. Time-price differential

The following sections of this report have been organized to address each of these requirements.

IMPACT ON SYSTEM - 11-36a-304(a)(b)

Growth within the District's service area, and projections of water demand resulting from said growth is discussed in detail in the District's Master Plan (CRS Engineers, December 2019) and Impact Fee Facilities Plan (IFFP) (CRS Engineers, September 2020). For the purposes of impact fee calculation, growth in the system has been expressed in terms of equivalent residential units (ERCs). An ERC represents the demand that a typical single-family residence places on the system. Growth in ERCs projected for the service area is summarized in Table 1.

Table 1
Service Area ERC Projections

Year	Total ERCS	Average Annual Growth
2020	21,292	-
2025	22,567	1.17%
2030	22,877	0.28%
2035	23,187	0.27%
2040	23,497	0.27%
2045	23,807	0.26%
2050	24,117	0.26%

As indicated in the table, projected growth for the 10-year planning window of this impact fee analysis is 1,585 ERCS. In order to maintain the established level of service, projected future growth will be met through a combination of available excess capacity in existing facilities and construction of additional capacity in new facilities. Use of excess capacity and required system improvements are detailed in the IFFP.

RELATION OF IMPACTS TO ANTICIPATED DEVELOPMENT - 11-36a-304(1)(c)

To satisfy the requirements of state law, it is necessary to show that all impacts identified in the impact fee analysis are reasonably related to the anticipated development activity. This has been documented in detail in the Impact Fee Facilities Plan. In short, only that capacity directly associated with demand placed upon existing system facilities by future development has been identified as an impact of the development. The steps completed to identify the impacts of anticipated development are as follows.

1. **Existing Demand** – The demand existing development places on the system was estimated based on historic demand records.
2. **Existing Capacity** – The capacities of existing facilities were calculated based on the level of service criteria established for each type of facility in the Impact Fee Facilities Plan.
3. **Existing Deficiencies** – Existing deficiencies in the system were looked for by comparing defined levels of service against calculated capacities. Where existing deficiencies existed, projects were identified to eliminate the deficiencies. Costs associated with existing deficiencies were not assigned to impacts of development.
4. **Future Demand** - The demand future development will place on the system was estimated based on development projections as discussed in the Impact Fee Facilities Plan.
5. **Future Demand Use of Existing Capacity** – Whenever possible, excess capacity in existing facilities has been used to serve future demands. Where this occurs, the amount of capacity used by future growth has been calculated as described in detail in the Impact Fee Facilities Plan.
6. **Future Deficiencies** – Where excess capacity is inadequate to meet projected demands, future deficiencies in the system were identified using the same established level of service criteria used for existing demands.
7. **Recommended Improvements** – Needed system improvements were identified to meet demands associated with future development.

PROPORTIONATE SHARE ANALYSIS - 11-36a-304(d)

A comprehensive proportionate share analysis associated with anticipated future development and its impact on the system was completed as part of the Impact Fee Facilities Plan. A summary of that analysis is contained here with additional discussion of the costs of facilities impacted by growth.

Excess Capacity to Accommodate Future Growth

Defining existing system capacity in terms of a single number is difficult. To improve the accuracy of the analysis, the system has been divided into four different components (Transmission, production/treatment, storage, administrative & shop buildings). As part of the Impact Fee Facilities Plan, the capacity used by each type of user was analyzed in detail¹. Based on the analysis, the calculated percentage of existing capacity in system facilities used by existing users, growth during the 10-year planning window, and growth beyond the 10-year planning window is summarized in Table 2.

**Table 2
Use of Existing Capacity**

	Transmission	Production / Treatment	Storage	Administrative & Shop Buildings
Existing	87.9%	96.8%	85.6%	86.1%
10-year Growth	6.1%	3.2%	6.6%	6.4%
Growth Beyond 10 Years	6.0%	0.0%	7.7%	7.5%
Total	100%	100%	100%	100%

Existing System Infrastructure Costs

To calculate the actual cost of excess capacity in the existing system, BC&A first looked at the actual cost of all existing facilities. Table 3 lists the actual construction costs of existing components of the District’s water system. These costs were obtained from a fixed asset detailed report for the District through fiscal year ending 2019. Detailed costs for the facilities included in the table are contained in the appendix to this report.

¹ The exception to this statement is Administrative & Shop Building infrastructure. For the purposes of this analysis it has been assumed that existing facilities in this category will be adequate to serve growth through buildout and use of capacity has been allocated accordingly.

**Table 3
Existing Infrastructure Costs**

Existing Infrastructure Category	Total Existing Infrastructure Cost	Percent Attributable to 10-Year Growth	Cost Attributable to 10-Year Growth
Transmission	\$42,708,021	6.1%	\$2,599,338
Storage	\$1,330,305	6.6%	\$88,167
Production	\$17,809,208	3.2%	\$564,766
Administrative & Shop Buildings	\$1,863,660	6.4%	\$119,461
Total	\$63,711,194		\$3,371,731

In this study, public facility costs already incurred by the District will be included in the impact fee only to the extent that new growth will be served by the previously constructed improvements.

Reimbursement Agreements

There are no current reimbursement agreements existing within the system applicable to impact fees.

Future Improvements

In addition to using available existing capacity, demand associated with projected future development will be met through the construction of additional capacity in new facilities. A primary focus of the Impact Fee Facilities Plan was the identification of projects required to serve new development. The results of the Impact Fee Facilities Plan are summarized in Table 4. Included in the table are the costs of each required project and the portion of costs associated with development.

**Table 4
Impact Fee Eligible Capital Projects**

Project	District Construction/Purchase Cost ¹	Percent Attributable to 10-Year Growth	Cost Attributable to 10-Year Growth
6200 South Boosted Line Upgrade Cost Estimate	\$1,662,900	41%	\$675,229
Redundant 24-inch line	\$100,000	34%	\$34,146
Barker Replacement Well	\$2,967,000	29%	\$868,155
Total	\$4,729,900		\$1,577,530

All cost estimates contained in this IFA have been taken directly from the IFFP. The basis of these estimates are documented in the IFFP and District Master Plans.

Planning and Impact Fee Studies

Utah Code allows for the cost of planning and engineering associated with impact fee calculations to be recovered as part of an impact fee. The final impact fee will need to include the portion of cost associated with new growth in conjunction with studies completed for this planning period.

Calculated allowable planning costs are summarized in Table 5. These costs have been based solely on actual costs for planning studies completed. Included in the table is the calculated portion of each planning effort dedicated to planning for future growth (based on estimated hours spent) and the number of ERUs served during the expected useful life of the planning document (five years).

Table 5
Impact Fee Costs Associated with Studies per ERC

Planning Document	Total Cost of Planning	% Plan Associated with Growth	Cost Associated with Growth	ERUs Served	Cost Per ERC
2020 Water Master Plan and 2020 Impact Fee Facility Plan	\$15,750	65%	\$10,238	1,275	\$8.03
2020 Impact Fee Analysis	\$17,206	100%	\$17,206	1,275	\$13.49
Subtotal	\$32,956		\$27,444		\$21.52

IMPACT FEE CALCULATION - 11-36a-304(1)(e)

Using the information contained in the previous sections, impact fees can be calculated by dividing the proportional cost of facilities required to service 10-year growth by the amount of growth expected over the next 10-years. This is done for each of the major system components identified previously. Calculated impact fees by component are summarized in Table 6.

**Table 6
Impact Fee Calculation per ERC**

System Components	Total Cost of Component	% Serving 10-year Growth	Cost Serving 10-year Growth	10-year ERUs Served	Cost Per ERC
Transmission Facilities					
Existing Facilities	\$42,708,021	6.1%	\$2,599,338	1,585	\$1,639.96
10-year Projects	\$1,762,900	40.2%	\$709,375	1,585	\$447.56
Subtotal	\$44,470,921		\$3,308,713		\$2,087.52
Storage Facilities					
Existing Facilities	\$1,330,305	6.6%	\$88,167	1,585	\$55.63
10-year Projects	\$0	0.0%	\$0	1,585	\$0.00
Subtotal	\$1,330,305		\$88,167		\$55.63
Production Facilities					
Existing Facilities	\$17,809,208	3.2%	\$564,766	1,585	\$356.32
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Subtotal	\$20,776,208		\$1,432,921		\$904.05
Other					
Administrative & Shop Buildings	\$1,863,660	6.4%	\$119,461	1,585	\$75.37
Planning and Impact Fee Studies	\$32,956	83.3%	\$27,444	1,275	\$21.52
Subtotal	\$1,896,616		\$146,904		\$96.89
Total	\$68,474,050		\$4,976,705		\$3,144.09

The total impact fee per ERC can be calculated by adding up the fee for each type of system component. This is separate from any additional charges levied by the District for hookup costs or for other reasonable permit and application fees.

Recommended Impact Fee

The total calculated impact fee is summarized in Table 6 as \$3,361.97 per ERC. From this value per ERC, Table 7 converts the overall fee to different meter sizes based on American Water Works Association (AWWA) meter capacity ratios. These ratios reflect additional costs that TBID would incur by servicing said connections. The AWWA ratio is based on the relative capacity of each meter size. This is the legal maximum amount that may be charged as an impact fee. A lower amount may be adopted if desired, but a higher fee is not allowable under the requirements of Utah Code.

**Table 7
Recommended Impact Fee, By Meter Size**

Size of Meter (inch)	Operating Flow (gpm)	AWWA Capacity Ratios	Maximum Allowable Impact Fee
Displacement/Ultrasonic Meters			
Single Family Residential Equivalent 5/8	20	1	\$3,144.09
0.75	30	1.39	\$4,716.13
1	50	2.22	\$7,860.22
1.5	100	2.78	\$15,720.43
2	160	5.56	\$25,152.69
Class II Turbine Meters - High Velocity			
1.5	100	5.56	\$15,720.43
2	160	8.89	\$25,152.69
3	350	19.44	\$55,021.52
4	630	35.00	\$99,038.74
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Compound/Ultrasonic Meters			
2	160	8.89	\$25,152.69
3	320	17.78	\$50,305.39
4	500	27.78	\$78,602.17
6	1000	55.56	\$157,204.34
8	1600	88.89	\$251,526.95
10	2300	127.78	\$361,569.99

Calculation of Non-Standard Impact Fees

The calculations above have been based on an ERC and typical meter ratios that will apply to most situations encountered. However, the Impact Fee Enactment should also include a provision that allows for calculation of a fee for customers other than typical size-based connections. This provision would be used when, in the judgement of the District Engineer, water use patterns will be significantly different from what would typically be observed for a meter of the same size. Consistent with the level of service standards established in the Impact Fee Facilities Plan, the following formula may be used to calculate an impact fee for a non-standard user based on the calculated daily total water use for an average residential connection.

Estimated Average Total Water Use

558 gallons per day Based on average water use consumption (both indoor and outdoor) per ERC for historical TBID records (2013 - 2018) per Water System Master Plan (CRS Engineers, Dec

$$X \text{ Impact Fee per ERC} = \text{Impact Fee}$$

ADDITIONAL CONSIDERATIONS - 11-36a-304(2)**MANNER OF FINANCING - 11-36a-304(2)(a-e)**

As part of this Impact Fee Analysis, it is important to consider how each facility has been or will be paid for. Potential infrastructure funding includes a combination of different revenue sources.

User Charges

Because infrastructure must generally be built ahead of growth, there often arises situations in which projects must be funded ahead of expected impact fee revenues. In some cases, the solution to this issue will be bonding. In others, funds from existing user rate revenue will be loaned to the impact fee fund to complete initial construction of the project and will be reimbursed later as impact fees are received. Interfund loans should be considered in subsequent accounting of impact fee expenditures.

Special Assessments

Where special assessments exist, the impact fee calculation must take into account funds contributed. No special assessments exist that are applicable to this impact fee.

Bonds

None of the costs contained in the IFFP included bonding. Where District financial plans identify bonding will be required to finance impact fee eligible improvements, the portion of bond cost and interest expense attributable to future growth can be added to the calculation of the impact fee. In this case, no bonds are currently proposed for the infrastructure identified in this plan.

General Taxes

If taxes are used to pay for infrastructure, they should be accounted for in the impact fee calculation. Specifically, any contribution made by property owners through taxes should be credited toward their available capacity in the system. In this case, no taxes are proposed for the construction of infrastructure.

Federal and State Grants and Donations

Impact fees cannot reimburse costs funded or expected to be funded through federal grants and other funds that the District has received for capital improvements without an obligation to repay. Grants and donations are not currently contemplated in this analysis. If grants become available for constructing facilities, impact fees will need to be recalculated and an appropriate credit given. Any existing infrastructure funded through past grants has been removed from the system cost.

DEDICATION OF SYSTEM IMPROVEMENTS 11-36a-304(2)(f)

Developer exactions are not the same as grants. Upon approval from the District, if a developer constructs a system improvement or dedicates land for a system improvement identified in this IFFP, or dedicates a public facility that is recognized by the District in advance to reduce the need for a system improvement, the developer may be entitled to an appropriate credit against that particular developer's impact fee liability or a proportionate reimbursement.

If the value of the credit is less than the development's impact fee liability, the developer will owe the balance of the liability to the District. If the recognized value of the improvements/land dedicated is more than the development's impact fee liability, the District may be required to reimburse the difference to the developer.

It should be emphasized that the concept of impact fee credits pertains to system level improvements only. Developers will be responsible for the construction of project improvements (i.e. improvements not identified in the impact fee facilities plan) without credit against the impact fee.

EXTRAORDINARY COSTS - 11-36a-304(2)(g)

The Impact Fees Act indicates the analysis should include consideration of any extraordinary costs of servicing newly developed properties. In cases where one area of potential growth may cost significantly more to service than other growth, a separate service area may be warranted. No areas with extraordinary costs have been identified as part of this analysis.

TIME-PRICE DIFFERENTIAL - 11-36a-304(2)(h)

Utah Code allows consideration of time-price differential in order to create fairness for amounts paid at different times. To address time-price differential, this analysis includes construction inflation for future construction projects. Per the requirements of the Code, existing infrastructure cost is based on actual historical costs without adjustment.

IMPACT FEE CERTIFICATION - 11-36a-306(2)

This IFA has been prepared in accordance with Utah Code Title 11, Chapter 36a (the "Impact Fees Act"), which prescribes the laws pertaining to the imposition of impact fees in Utah. The accuracy of this IFFP relies in part upon planning, engineering, and other source data, provided by the District and its designees.

In accordance with Utah Code Annotated, 11-36a-306(2), Bowen Collins & Associates, makes the following certification:

I certify that the attached impact fee analysis:

1. Includes only the costs of public facilities that are:
 - a. allowed under the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
2. Does not include:
 - a. costs of operation and maintenance of public facilities;
 - b. costs of qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents; or
 - c. an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement; and
3. Complies in each and every relevant respect with the Impact Fees Act.



Keith J. Larson, P.E.

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TAYLORSVILLE - BENNION
IMPROVEMENT DISTRICT
SEWER IMPACT FEE ANALYSIS

OCTOBER 2020

TAYLORSVILLE - BENNION IMPROVEMENT DISTRICT

SEWER IMPACT FEE ANALYSIS

October 2020

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EXECUTIVE SUMMARY

INTRODUCTION

The purpose of the impact fee analysis (IFA) is to calculate the allowable impact fee that may be assessed to new development in accordance with Utah Code.

WHY ASSESS AN IMPACT FEE?

Until development utilizes the full capacity of existing facilities, the District can assess an impact fee to recover its cost of latent capacity available to serve future development. The general impact fee methodology divides the available capacity of existing and future capital projects between the number of existing and future users. Capacity is measured in terms of Equivalent Residential Units, or ERUs, which represents the demand that a typical single-family residence places on the system.

HOW ARE IMPACT FEES CALCULATED?

A fair impact fee is calculated by dividing the cost of existing and future facilities by the amount of new growth that will benefit from the unused capacity. Only the capacity that is needed to serve the projected growth within in the next ten years is included in the fee. Costs used in the calculation of impact fees include:

- New facilities required to maintain (but not exceed) the proposed level of service in the system; only those expected to be built within ten years are considered in the final calculations of the impact fee.
- Historic costs of existing facilities that will serve new development
- Cost of professional services for engineering, planning, and preparation of the impact fee facilities plan and impact fee analysis

Costs not used in the impact fee calculation

- Operational and maintenance costs
- Cost of facilities constructed beyond 10 years
- Cost associated with capacity not expected to be used within 10 years
- Cost of facilities funded by grants, developer contributions, or other funds which the District is not required to repay
- Cost of renovating or reconstructing facilities which do not provide new capacity or needed enhancement of services to serve future development

IMPACT FEE CALCULATION

Impact fees for this analysis were calculated by dividing the proportional cost of facilities required to service 10-year growth by the amount of growth expected over the next 10-years based on ERUs. This is done for transmission, storage, and production facilities. Calculated impact fees by component are summarized in Table ES-1. Table ES-1 covers the cost of impacts on all facilities from growth within the Taylorsville-Bennion Improvement District service area.

**Table ES-1
Impact Fee Calculation per ERU**

System Components	Total Cost of Component	% Serving 10-year Growth	Cost Serving 10-year Growth	10-year ERUs Served	Cost Per ERU
Collection Facilities					
Existing Facilities	\$14,036,396	6.2%	\$875,011	1,585	\$552.06
10-year Projects	\$2,197,485	4.3%	\$95,331	1,585	\$60.15
Interest Costs	\$0		\$0	1,585	\$0.00
Subtotal	\$16,233,881		\$970,342		\$612.20
Treatment Plant					
Existing Facilities	\$906,680	100.0%	\$906,680	1,585	\$572.04
10-year Projects	\$1,719,912	100.0%	\$1,719,912	1,585	\$1,085
Interest Costs	\$221,566	100.0%	\$221,566	1,585	\$139.79
User Fee Credit					-\$638.70
Subtotal	\$2,848,159		\$2,848,159		\$1,158.25
Other					
Administrative & Shop Buildings	\$1,863,660	6.4%	\$119,461	1,585	\$75.37
Planning and Impact Fee Studies	\$31,456	84.14%	\$26,469	1,275	\$20.76
Subtotal	\$1,895,116		\$145,929		\$96.13
Total	\$20,977,156		\$3,964,430		\$1,866.58

RECOMMENDED IMPACT FEE

The total calculated impact fees are summarized in Table ES-2. This is the legal maximum amount that may be charged as an impact fee. A lower amount may be adopted if desired, but a higher fee is not allowable under the requirements of Utah Code.

**Table ES-2
Maximum Allowable Impact Fee (Per ERU)**

	2020	2021	2022	2023	2024	2025
Base Impact Fee	\$2,505.28	\$2,505.28	\$2,505.28	\$2,505.28	\$2,505.28	\$2,505.28
User Fee Credit	-\$638.70	-\$638.70	-\$621.99	-\$595.16	-\$553.46	-\$513.44
Total Overall Fee	\$1,866.58	\$1,866.58	\$1,883.29	\$1,910.11	\$1,951.82	\$1,991.84

IMPACT FEE ANALYSIS (SEWER)

INTRODUCTION

Taylorsville-Bennion Improvement District (TBID) has retained Bowen Collins & Associates (BC&A) to prepare an impact fee analysis (IFA) for its sewer system based on a recently completed impact fee facilities plan. An impact fee is a one-time fee, not a tax, imposed upon new development activity as a condition of development approval to mitigate the impact of the new development on public infrastructure. The purpose of an IFA is to calculate the allowable impact fee that may be assessed to new development in accordance with Utah Code.

Requirements for the preparation of an IFA are outlined in Title 11, Chapter 36a of the Utah Code (the Impact Fees Act). Under these requirements, an IFA shall accomplish the following for each facility:

1. Identify the impact of anticipated development activity on existing capacity
2. Identify the impact of anticipated development activity on system improvements required to maintain the established level of service
3. Demonstrate how the impacts are reasonably related to anticipated development activity
4. Estimate the proportionate share of:
 - a. Costs of existing capacity that will be recouped
 - b. Costs of impacts on system improvements that are reasonably related to the new development activity
5. Identify how the impact fee was calculated
6. Consider the following additional issues
 - a. Manner of financing improvements
 - b. Dedication of system improvements
 - c. Extraordinary costs in servicing newly developed properties
 - d. Time-price differential

The following sections of this report have been organized to address each of these requirements.

IMPACT ON SYSTEM - 11-36a-304(1)(a)(b)

Growth within the District's service area, and projections of sewer flows resulting from said growth is discussed in detail in the District's Master Plan and Impact Fee Facilities Plan (IFFP). For the purposes of impact fee calculation, growth in the system has been expressed in terms of equivalent residential units (ERUs). An ERU represents the demand that a typical single-family residence places on the system. Growth in ERUs projected for the service area is summarized in Table 1.

Table 1
Projected TBID Sewer System Growth

Year	Total ERCs	Average Annual Growth
2020	21,292	-
2025	22,567	1.17%
2030	22,877	0.28%
2035	23,187	0.27%
2040	23,497	0.27%
2045	23,807	0.26%
2050	24,117	0.26%

As indicated in the table, projected growth for the 10-year planning window of this impact fee analysis is 1,585 ERUs. In order to maintain the established level of service, projected future growth will be met through a combination of available excess capacity in existing facilities and construction of additional capacity in new facilities. Use of excess capacity and required system improvements are detailed in the IFFP.

RELATION OF IMPACTS TO ANTICIPATED DEVELOPMENT - 11-36a-304(1)(c)

To satisfy the requirements of state law, it is necessary to show that all impacts identified in the impact fee analysis are reasonably related to the anticipated development activity. This has been documented in detail in Impact Fee Facilities Plan. In short, only that capacity directly associated with demand placed upon existing system facilities by future development has been identified as an impact of the development. The steps completed to identify the impacts of anticipated development are as follows.

1. **Existing Demand** – The demand existing development places on the system was estimated based on historic demand records.
2. **Existing Capacity** – The capacities of existing facilities were calculated based on the level of service criteria established for each type of facility in the Impact Fee Facilities Plan.
3. **Existing Deficiencies** – Existing deficiencies in the system were looked for by comparing defined levels of service against calculated capacities. Where existing deficiencies existed, projects were identified to eliminate the deficiencies. Costs associated with existing deficiencies were not assigned to impacts of development.
4. **Future Demand** - The demand future development will place on the system was estimated based on development projections as discussed in the Impact Fee Facilities Plan.
5. **Future Demand Use of Existing Capacity** – Whenever possible, excess capacity in existing facilities has been used to serve future demands. Where this occurs, the amount of capacity used by future growth has been calculated as described in detail in the Impact Fee Facilities Plan.
6. **Future Deficiencies** – Where excess capacity is inadequate to meet projected demands, future deficiencies in the system were identified using the same established level of service criteria used for existing demands.
7. **Recommended Improvements** – Needed system improvements were identified to meet demands associated with future development.

PROPORTIONATE SHARE ANALYSIS - 11-36a-304(d)

A comprehensive proportionate share analysis associated with anticipated future development and its impact on the system was completed as part of the Impact Fee Facilities Plan. A summary of that analysis is contained here with additional discussion of the costs of facilities impacted by growth.

Excess Capacity to Accommodate Future Growth

Defining existing system capacity in terms of a single number is difficult. To improve the accuracy of the analysis, the system has been divided into three different components (collection, treatment, administrative & shop buildings). For collection and treatment, the capacity used by each type of user was analyzed in detail as part of the Impact Fee Facilities Plan. Based on the analysis, the calculated percentage of existing capacity in system facilities used by existing users, growth during the 10-year planning window, and growth beyond the 10-year planning window is summarized in Table 2.

Table 2
Use of Existing Capacity

	Collection	Administrative & Shop Buildings
Existing	86.5%	86.1%
10-year Growth	6.2%	6.4%
Growth Beyond 10 Years	7.3%	7.5%
Total	100%	100%

Because of the way Central Valley Water Reclamation Facility (CVWRF) allocates ownership, treatment capacity at the reclamation facility has been analyzed separately. A detailed analysis of CVWRF is included in Appendix B. Ultimately, the value of existing infrastructure available for use by future users has been calculated on a gallon per day basis. This allows the value of existing capacity to be calculated for each entity based on their specific projected growth.

Existing System Infrastructure Costs

The District's Fixed Asset Summary was used to determine the total cost of the existing collection system and administrative & shop buildings that is impact fee eligible. To calculate the cost of excess capacity at the treatment plant, BC&A first determined the cost of impact fee eligible infrastructure on a cost per gallon per day basis and then multiplied this cost by the project increase in flow associated with future growth (for a detailed analysis, refer to Appendix B). Table 3 lists the actual construction costs of existing sewer system infrastructure. Detailed lists of the facility costs shown below are contained in Appendix A for Collection and Administrative & Shop Buildings and Appendix B for Treatment.

**Table 3
Existing Infrastructure Costs**

Existing Infrastructure Category	Total Existing Infrastructure Cost	Percent Attributable to 10-Year Growth	Cost Attributable to 10-Year Growth
Collection	\$14,036,396	6.2%	\$875,011
Treatment	\$906,680 ¹	100.0%	\$906,680
Administrative & Shop Buildings	\$1,863,660	6.4%	\$119,461
Total	\$16,840,563		\$1,901,152

¹ This value includes only the amount of CVWRF's existing impact fee eligible capital costs that TBID's 10-year growth population is responsible for. Thus, the corresponding percent attributable to 10-year growth is 100% by definition.

Reimbursement Agreements

There are no current reimbursement agreements existing within the system that have not been otherwise accounted for in the existing asset value.

Future Improvements

In addition to using available existing capacity, demand associated with projected future development will be met through the construction of additional capacity in new facilities. A primary focus of the Impact Fee Facilities Plan was the identification of projects required to serve new development. The results of the Impact Fee Facilities Plan are summarized in Table 4. Included in the table are the costs of each required project and the portion of costs associated with development.

**Table 4
Impact Fee Eligible Capital Projects**

Project	District Construction/Purchase Cost	Percent Attributable to 10-Year Growth	Cost Attributable to 10-Year Growth
Gravity Outfall Line	\$1,778,625	3.2%	\$57,449
Redwood Road Transition	\$418,860	9.0%	\$37,882
CVWRF Plant Upgrade Costs	\$1,719,912 ¹	100.0%	\$1,719,912
Total	\$3,917,397		\$1,815,243

¹ This value includes only the amount of CVWRF's future impact fee eligible capital costs that TBID's 10-year growth population is responsible for. Thus, the corresponding percent attributable to 10-year growth is 100% by definition.

All cost estimates, except the CVWRF Plant Upgrade Costs, have been taken directly from the IFFP. CVWRF Plant Upgrade Costs and existing costs have been calculated using CVWRF's detailed fixed asset report and Capital Improvement Plan summary (see Appendix B). The bases for all other estimates are documented in the IFFP and District Master Plans.

IMPACT FEE CALCULATION - 11-36a-304(1)(e)

Using the information contained in the previous sections, impact fees can be calculated by dividing the proportional cost of facilities required to service 10-year growth by the amount of growth expected over the next 10-years. This is done for each of the major system components identified previously. Calculated impact fees by component are summarized in Table 5.

Table 5
Impact Fee Calculation per ERU

System Components	Total Cost of Component	% Serving 10-year Growth	Cost Serving 10-year Growth	10-year ERUs Served	Cost Per ERU
Collection Facilities					
Existing Facilities	\$14,036,396	6.2%	\$875,011	1,585	\$552.06
10-year Projects	\$2,197,485	4.3%	\$95,331	1,585	\$60.15
Interest Costs	\$0		\$0	1,585	\$0.00
Subtotal	\$16,233,881		\$970,342		\$612.20
Treatment Plant					
Existing Facilities	\$906,680	100.0%	\$906,680	1,585	\$572.04
10-year Projects	\$1,719,912	100.0%	\$1,719,912	1,585	\$1,085
Interest Costs	\$221,566	100.0%	\$221,566	1,585	\$139.79
User Fee Credit					-\$638.70
Subtotal	\$2,848,159		\$2,848,159		\$1,158.25
Other					
Administrative & Shop Buildings	\$1,863,660	6.4%	\$119,461	1,585	\$75.37
Planning and Impact Fee Studies	\$31,456	84.14%	\$26,469	1,275	\$20.76
Subtotal	\$1,895,116		\$145,929		\$96.13
Total	\$20,977,156		\$3,964,430		\$1,866.58

The total impact fee per ERU can be calculated by adding up the fee for each type of system component. This is separate from any additional charges levied by the District for hookup costs or for other reasonable permit and application fees.

Bonding Interest Costs

In addition to construction costs, Table 5 includes the cost of bond interest expense where applicable. This includes any outstanding interest costs on existing facilities where new growth will benefit from excess capacity and future interest costs for bonds required to build projects needed for growth as identified in the Impact Fee Facilities Plan. Similar to project construction costs, only that portion of interest expense associated with capacity for growth is included in the impact fee calculation.

Credit for User Fees

Not all of the existing deficiencies identified in the plan can be paid for from existing cash reserves. As a result, the plan includes some bonding toward projects that have at least a portion of their costs that benefit existing users. In this situation, user fees will be used to pay for the bonds over their lifetime.

For projects where this is the case, future users will pay for their portion of capacity via impact fees. They cannot also be expected to pay through user rates the portion of future bonds that will be used to build capacity or remedy deficiencies for existing users. This creates the need for a credit for future users. Calculation of this credit is summarized in Table 6. This table includes the following information:

- **Existing and Future Paid Through User Fees** – This represents the total amount paid each year by the District toward the portion of past or future bonds used to cure existing deficiencies or increase the level of service for existing users. For convenience in future analysis, these totals have been divided between collection and treatment components.
- **Cost Per ERU** – This column takes the total amount paid and divides it by the number of ERUs projected for each year. This represents the amount paid in each year by each ERU.
- **Present Value Cost per ERU** – This column takes into account the time value of money assuming a rate of return of 3 percent annually.
- **Total User Fee Credit** – At the bottom of the table, the present value costs for all future years are added together to develop the total user fee credit.

It will be noted that, because the user fee credit is the summation of user fees paid toward existing deficiencies in each year, a new user who joins the system in five or ten years will pay less in total user fees than someone who joins the system next year. Thus, the user fee credit will decrease over time. The appropriate user fee can be calculated by adding the present value cost, as shown in Table 6, for all years subsequent to a new user's connection to the system.

Table 6
Credit for User Fees Paid Toward Existing

Year	ERUs	Existing Collection Paid Through User Fees	Future Collection Paid Through User Fees	Cost Per ERU	Present Value Cost Per ERU	Existing Treatment Paid Through User Fees	Future Treatment Paid Through User Fees	Cost Per ERU	Present Value Cost Per ERU
2020	21,292	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2021	21,547	\$0.00	\$0.00	\$0.00	\$0.00	\$46,475.22	\$324,314.57	\$17.21	\$16.71
2022	21,802	\$0.00	\$0.00	\$0.00	\$0.00	\$67,234.16	\$553,242.50	\$28.46	\$26.83
2023	22,057	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$45.57	\$41.70
2024	22,312	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$45.05	\$40.02
2025	22,567	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$44.54	\$38.42
2026	22,629	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$44.42	\$37.20
2027	22,691	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$44.29	\$36.02
2028	22,753	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$44.17	\$34.87
2029	22,815	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$44.05	\$33.76
2030	22,877	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$43.93	\$32.69
2031	22,939	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$43.82	\$31.65
2032	23,001	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$43.70	\$30.65
2033	23,063	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$43.58	\$29.68
2034	23,125	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$43.46	\$28.73
2035	23,187	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$43.35	\$27.82
2036	23,249	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$43.23	\$26.94
2037	23,311	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$43.12	\$26.09
2038	23,373	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$43.00	\$25.26
2039	23,435	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$42.89	\$24.46
2040	23,497	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$744,015.77	\$42.78	\$23.68
2041	23,559	\$0.00	\$0.00	\$0.00	\$0.00	\$261,073.51	\$419,701.20	\$28.90	\$15.53
2042	23,621	\$0.00	\$0.00	\$0.00	\$0.00	\$261,074.26	\$190,773.27	\$19.13	\$9.98
2043	23,683	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2044	23,745	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2045	23,807	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total User Fee Credit									\$638.70

Impact Fee Studies

Utah Code allows for the cost of planning and engineering associated with impact fee calculations to be recovered as part of an impact fee. The final impact fee will include the portion of cost applicable to growth for both this study and the District's recent Sewer Master Plan as shown in Table 5. These costs have been based solely on actual costs for planning studies completed. Included in the table is the total cost of all efforts dedicated to planning for future growth (based on estimated hours spent) and the number of ERUs served during the expected useful life of the planning document (five years).

Recommended Impact Fee

The total calculated impact fee is summarized in Table 7. Included in this table is the appropriate user fee credits for both collection and treatment and corresponding overall fee. This is the legal maximum amount that may be charged as an impact fee. A lower amount may be adopted if desired, but a higher fee is not allowable under the requirements of Utah Code.

Table 7
Maximum Allowable Impact Fee (Per ERU)

	2020	2021	2022	2023	2024	2025
Base Impact Fee	\$2,505.28	\$2,505.28	\$2,505.28	\$2,505.28	\$2,505.28	\$2,505.28
User Fee Credit	-\$638.70	-\$638.70	-\$621.99	-\$595.16	-\$553.46	-\$513.44
Total Overall Fee	\$1,866.58	\$1,866.58	\$1,883.29	\$1,910.11	\$1,951.82	\$1,991.84

As discussed previously, the calculated user fee credit associated with the impact fees will decrease over time. As a result, the allowable impact fee will increase over time as shown in the table. Impact fees beyond 2025 can be calculated by reducing the user fee credit by the amount shown for each successive year in Table 6.

Calculation of Non-Standard Impact Fees

The calculations above have been based on an ERU. The Impact Fee Enactment should include a provision that allows for calculation of a fee for customers other than typical residential connections. Consistent with the level of service standards established in the Impact Fee Facilities Plan, the following formula may be used to calculate an impact fee for a non-standard user based on the calculated daily indoor water use for an average residential connection.

$$ERU = \frac{\text{Estimated Indoor Water Use}}{234 \text{ gallons per day}} \times \text{Impact Fee per ERU} = \text{Impact Fee}$$

Based on average indoor water use consumption per ERC per Sewer IFPP (CRS Engineers, September 2020).

ADDITIONAL CONSIDERATIONS - 11-36a-304(2)

MANNER OF FINANCING - 11-36a-304(2)(a-e)

As part of this Impact Fee Analysis, it is important to consider how each facility has been or will be paid for. Potential infrastructure funding includes a combination of different revenue sources.

User Charges

Because infrastructure must generally be built ahead of growth, there often arises situations in which projects must be funded ahead of expected impact fee revenues. In some cases, the solution to this issue will be bonding. In others, funds from existing user rate revenue will be loaned to the impact fee fund to complete initial construction of the project and will be reimbursed later as impact fees are received. Interfund loans should be considered in subsequent accounting of impact fee expenditures.

Special Assessments

Where special assessments exist, the impact fee calculation must take into account funds contributed. No special assessments exist.

Bonds

The District intends to bond for the costs associated with the improvements to CVWRF. The portion of the CVWRF bond cost and interest expense attributable to future growth has been added to the calculation of the impact fee.

General Taxes

If taxes are used to pay for infrastructure, they should be accounted for in the impact fee calculation. Specifically, any contribution made by property owners through taxes should be credited toward their available capacity in the system. In this case, no taxes are proposed for the construction of infrastructure.

Federal and State Grants and Donations

Impact fees cannot reimburse costs funded or expected to be funded through federal grants and other funds that the District has received for capital improvements without an obligation to repay. Grants and donations are not currently contemplated in this analysis. If grants become available for constructing facilities, impact fees will need to be recalculated and an appropriate credit given.

Any existing infrastructure funded through past grants has been removed from the system cost.

DEDICATION OF SYSTEM IMPROVEMENTS - 11-36a-304(2)(f)

Developer exactions are not the same as grants. Upon approval from the District, if a developer constructs a system improvement or dedicates land for a system improvement identified in this IFFP, or dedicates a public facility that is recognized in advance by the District to reduce the need for a system improvement, the developer may be entitled to an appropriate credit against that particular developer's impact fee liability or a proportionate reimbursement.

If the value of the credit is less than the development's impact fee liability, the developer will owe the balance of the liability to the District. If the recognized value of the improvements/land dedicated is

more than the development's impact fee liability, the District may be required to reimburse the difference to the developer.

It should be emphasized that the concept of impact fee credits pertains to system level improvements only. Developers will be responsible for the construction of project improvements (i.e. improvements not identified in the impact fee facilities plan) without credit against the impact fee.

EXTRAORDINARY COSTS - 11-36a-304(2)(g)

The Impact Fees Act indicates the analysis should include consideration of any extraordinary costs of servicing newly developed properties. In cases where one area of potential growth may cost significantly more to service than other growth, a separate service area may be warranted. No areas with extraordinary costs have been identified as part of this analysis.

TIME-PRICE DIFFERENTIAL - 11-36a-304(2)(h)

Utah Code allows consideration of time-price differential in order to create fairness for amounts paid at different times. To address time-price differential, this analysis includes construction inflation for future construction projects. Per the requirements of the Code, existing infrastructure cost is based on actual historical costs without adjustment.

IMPACT FEE CERTIFICATION - 11-36a-306(2)

This report has been prepared in accordance with Utah Code Title 11, Chapter 36a (the "Impact Fees Act"), which prescribes the laws pertaining to the imposition of impact fees in Utah. The accuracy of this IFFP relies in part upon planning, engineering, and other source data, provided by the District and its designees.

In accordance with Utah Code Annotated, 11-36a-306(2), Bowen Collins & Associates makes the following certification:

I certify that the attached impact fee analysis:

1. Includes only the costs of public facilities that are:
 - a. allowed under the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
2. Does not include:
 - a. costs of operation and maintenance of public facilities;
 - b. costs of qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents; or
 - c. an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement; and
3. Complies in each and every relevant respect with the Impact Fees Act.



Keith J. Larson, P.E.

APPENDIX A
TAYLORSVILLE-BENNION IMPROVEMENT DISTRICT
FIXED ASSET SUMMARY

Taylorsville-Bennion Improvement District
Fixed Asset Summary

Asset	Property Description	Book Cost	Impact Fee Eligible	Impact Fee Total
<u>Land - #1-1620</u>				
10002	LAND FOR OFFICE BUILDING	3,040.82	Yes	\$3,040.82
10003	456 ACRES BARKER WELL	5,902.00	Yes	\$5,902.00
10004	LAND PUR 73 ADD FAS LND PUR 75	43,220.64	Yes	\$43,220.64
10005	TWO PARCEL OF LAND	19,857.17	Yes	\$19,857.17
10006	THREE PARCELS OF LAND	79,839.50	Yes	\$79,839.50
10008	SL CITY REAL ESTATE DEP	9,650.00	Yes	\$9,650.00
10009	5800 W. 5000 S. WELLSITE	74,000.00	Yes	\$74,000.00
10010	1300 W. WELLSITE 4-17-80	8,175.00	Yes	\$8,175.00
10011	EASEMENTS	6,255.25	Yes	\$6,255.25
10012	1786 WEST 4700 SOUTH	65,319.61	Yes	\$65,319.61
10013	BLOCK WALL	2,408.97	Yes	\$2,408.97
10014	CHURCH FARM APPRAISAL	150.00	No	\$0.00
10015	PARKING LOT & CURB	5,181.12	Yes	\$5,181.12
10016	LOW ZONE SE RESEVOIR	70,000.00	Yes	\$70,000.00
10017	LOW ZONE SW RESEVOIR	54,046.00	Yes	\$54,046.00
10018	MIDDLE ZONE WEST RESEVOIR	27,700.00	Yes	\$27,700.00
10019	TAYLORSVILLE WEST WELL	3,488.00	Yes	\$3,488.00
10022	FAIRWAY WELL	19,000.00	Yes	\$19,000.00
10023	SHAW WELL	3,100.00	Yes	\$3,100.00
10025	RAWSON WELL	6,000.00	Yes	\$6,000.00
10026	ATHERTON WELL	2,000.00	Yes	\$2,000.00
10028	LAND APPRAISALS	1,178.00	No	\$0.00
10029	ATHERTON WELL	43,000.00	Yes	\$43,000.00
10030	LDS CHURCH PROPERTY	2,282.50	Yes	\$2,282.50
10031	BAKER WELL LEGAL, TITLE FEES	1,630.00	Yes	\$1,630.00
10033	2.5 ACRES 2955 W 6500 S	49,857.28	Yes	\$49,857.28
10034	LOW-ZONE SOUTHWEST RESERVOIR	200.01	Yes	\$200.01
10035	LOW-ZONE RESERVOIRS	346,960.47	Yes	\$346,960.47
10036	LOW ZONE - CANAL PROPERTY	20,759.00	Yes	\$20,759.00
10037	PUPUA PROPERTY	157,526.83	Yes	\$157,526.83
10039	LOW-ZONE RESERVOIRS	99,654.21	Yes	\$99,654.21
10040	PUPUA IMPROVEMENTS	8,786.11	Yes	\$8,786.11
10041	VAN PROPERTY	166,175.00	Yes	\$166,175.00
10042	BOYNTON PROPERTY	176,311.00	Yes	\$176,311.00
10043	OQUIRRH PARK PROPERTY	110,000.00	Yes	\$110,000.00
10044	WALKER PROPERTY	218,306.00	Yes	\$218,306.00

10045	DAVENPORT PROPERTY	150,141.00	Yes	\$150,141.00
10047	DAVENPORT IMPROVEMENTS	5,287.74	Yes	\$5,287.74
10048	1651-1661 WEST 4800 SOUTH	90,592.32	Yes	\$90,592.32
10050	LAND SURVEYS	3,713.00	Yes	\$3,713.00
11233	LAND	287,337.85	Yes	\$287,337.85
11285	REPLACEMENT LAND	7,560.50	Yes	\$7,560.50
11302	REPLACEMENT LAND	9,078.25	Yes	\$9,078.25
11322	REPLACEMENT WELL LAND	1,860.00	Yes	\$1,860.00
11323	REPLACEMENT WELL LAND	280.00	Yes	\$280.00
11324	REPLACEMENT WELL LAND	1,095.50	Yes	\$1,095.50
11325	REPLACEMENT WELL LAND	2,173.50	Yes	\$2,173.50
11326	REPLACEMENT WELL LAND	285.00	Yes	\$285.00
11339	Replacement Well Land	997.50	Yes	\$997.50
11340	Replacement Well Land	1,322.50	Yes	\$1,322.50
11341	Replacement Well Land	362.50	Yes	\$362.50
11342	Replacement Well Land	145.00	Yes	\$145.00
11343	Replacement Well Land	602.50	Yes	\$602.50
11344	Wirthlin Property	2,500.00	Yes	\$2,500.00
11426	WIRTHLIN WELL	72,516.63	Yes	\$72,516.63
11516	EASEMENT	30,225.00	Yes	\$30,225.00
11517	EASEMENT ROCKY MTN POWER	7,500.00	Yes	\$7,500.00
11518	ROLL BACK TAXES SWENSEN	2,172.38	No	\$0.00

**Total - Land
#1-1620**

2,588,709.16

**Office
Building - #1-
1625**

989	Telemetry - Repeater Station	7,277.81	No	\$0.00
10101	OFFICE BUILDING	28,004.46	Yes	\$28,004.46
10102	CARPETING & PANELING	1,680.00	No	\$0.00
10103	IMPR TO BASEMENTS	1,856.68	Yes	\$1,856.68
10104	CON. PIPE TO COVER IRR.	600.00	Yes	\$600.00
10105	CARP. COMP ROOM	285.60	No	\$0.00
10106	ADD TO OFFICE BUILDING	181,319.87	Yes	\$181,319.87
10107	OFFICE REMODELING	46,659.05	Yes	\$46,659.05
10108	WALL & WINDOW	1,000.00	Yes	\$1,000.00
10109	ARCHITECT	6,000.00	Yes	\$6,000.00
10110	OFFICE REMODELING & ADDITIONS	689,654.57	Yes	\$689,654.57
10111	OFFICE REMODELING & ADDITIONS	613,403.95	Yes	\$613,403.95
10112	OFFICE REMODELING & ADDITIONS	3,709.67	Yes	\$3,709.67

10995	OFFICE REMODELING & ADDITIONS	25,818.50	Yes	\$25,818.50
11017	OFFICE REMODELING & ADDITIONS	950.00	Yes	\$950.00
11032	OFFICE REMODELING & ADDITIONS	10,742.00	Yes	\$10,742.00
11049	HSM SECURITY MONITOR	1,918.00	Yes	\$1,918.00
11117	OFFICE BUILDING & PREMISES	4,807.20	Yes	\$4,807.20
11165	OFFICE BUILDING	1,441,046.54	Yes	\$1,441,046.54
11234	OFFICE BUILDING	1,423.00	Yes	\$1,423.00
11260	OFFICE REMODELING & ADDITIONS	11,969.10	Yes	\$11,969.10
11261	RENTAL PROPERTY - RENOVATION	38,980.63	Yes	\$38,980.63
11304	A/C UNIT	7,260.00	Yes	\$7,260.00
11327	OFFICE LOBBY CAMERA	1,713.64	No	\$0.00
	Petrovend Key Pad Controler-Fuel			
11345	Pump-Shop	10,452.02	No	\$0.00
11346	20' Storage Container	4,220.58	No	\$0.00
11436	EAST GATE AT OFFICE	19,806.00	Yes	\$19,806.00

**Total - Office
Building #1-
1625**

3,162,558.87

**Garage &
Shop
Buildings -
#1-1630**

10151	COMB. GARAGE & SHOP BUILDING	14,071.25	Yes	\$14,071.25
10152	ADDS TO BUILDING	1,326.00	Yes	\$1,326.00
10154	TWO BA EXT TO GARAGE MISC EXP	24,665.58	Yes	\$24,665.58
10155	DESIGN REVIEW	380.00	Yes	\$380.00
10156	BUTLER GARAGE FACILITY	39,505.71	Yes	\$39,505.71
10157	SHOP ADDITIONS	36,610.77	Yes	\$36,610.77
10158	SHOP ADDITION	4,168.95	Yes	\$4,168.95
10159	SHOP ADDITION	7,160.81	Yes	\$7,160.81
10160	SHOP ADDITION BUILDING	448,691.00	Yes	\$448,691.00
10161	ALARM SYSTEM - SHOP	2,269.00	No	\$0.00
10162	RADIO TOWER	210.00	No	\$0.00
10163	TELEPHONE EQUIP - SHOP	1,699.60	No	\$0.00
10164	GAS TANK	5,780.55	Yes	\$5,780.55
10165	LANDSCAPE - SHOP	1,002.30	Yes	\$1,002.30
10166	SPRINKLING SYSTEM - SHOP	1,500.00	Yes	\$1,500.00
10167	SHOP DOOR OPENER	1,050.00	No	\$0.00
10168	ALARM INSTALL	427.67	Yes	\$427.67
10169	SHOP ADDITION	1,250.00	Yes	\$1,250.00

10170	SHOP PHONE SYSTEM	1,031.10	No	\$0.00
10172	BATHROOM TILE	810.00	Yes	\$810.00
10173	DRINKING FOUNTAIN	320.00	No	\$0.00

**Total Garage
& Shop
Building #1-
1630**

593,930.29

**Pump
Houses - #1-
1635**

10201	PUMPHOUSE & OFFICE BUILDINGS	12,205.00	Yes	\$12,205.00
10202	IMP. TO PUMP HOUSE	1,060.52	Yes	\$1,060.52
10203	SKYLIGHT VENTILATORS	389.50	Yes	\$389.50
10204	IMPR. TO 45 S. HOUSE	793.95	Yes	\$793.95
10205	NEW PUMP HOUSE	29,571.00	Yes	\$29,571.00
10206	NEW PUMP HOUSE	23,809.48	Yes	\$23,809.48
10208	DRAWINGS & SPECS WHITE & KEARN	7,724.60	Yes	\$7,724.60
10209	P.H. WHITE #1 & #2 KEARNS	115,351.71	Yes	\$115,351.71
10211	PUMP HOUSES	17,656.23	Yes	\$17,656.23

**Total Pump
Houses #1-
1635**

208,561.99

**Sewer
System - #1-
1655**

10551	SEWER SYSTEM ADDITIONS	504,353.83	Yes	\$504,353.83
10554	SEWER SYSTEM ADDITIONS	191,535.73	Yes	\$191,535.73
10555	SEWER SYSTEM ADDITIONS	248,348.75	Yes	\$248,348.75
10556	SEWER SYSTEM ADDITIONS	30,503.65	Yes	\$30,503.65
10557	SEWER SYSTEM ADDITIONS	66,271.28	Yes	\$66,271.28
10558	SEWER SYSTEM ADDITIONS	50,303.55	Yes	\$50,303.55
10559	SEWER SYSTEM ADDITIONS	8,466.03	Yes	\$8,466.03
10560	SEWER SYSTEM ADDITIONS	10,330.17	Yes	\$10,330.17
10561	SEWER SYSTEM ADDITIONS	18,567.04	Yes	\$18,567.04
10562	SEWER SYSTEM ADDITIONS	17,086.07	Yes	\$17,086.07
10563	SEWER SYSTEM ADDITIONS	742.00	Yes	\$742.00
10564	SEWER SYSTEM ADDITIONS	229,884.74	Yes	\$229,884.74
10565	SEWER SYSTEM ADDITIONS	157,913.17	Yes	\$157,913.17

10568	SEWER SYSTEM ADDITIONS	116,561.51	Yes	\$116,561.51
10569	SEWER SYSTEM ADDITIONS	330,857.23	Yes	\$330,857.23
10570	SEWER SYSTEM ADDITIONS	162,866.10	Yes	\$162,866.10
10571	SEWER SYSTEM ADDITIONS	51,006.57	Yes	\$51,006.57
10572	SEWER SYSTEM ADDITIONS	102,954.30	Yes	\$102,954.30
10573	SEWER SYSTEM ADDITIONS	57,972.72	Yes	\$57,972.72
10574	SEWER SYSTEM ADDITIONS	13,556.39	Yes	\$13,556.39
10576	SEWER SYSTEM ADDITION	156,717.72	Yes	\$156,717.72
10577	SEWER SYSTEM ADDITION	71,898.26	Yes	\$71,898.26
10578	SEWER PROJECTS	183,490.28	Yes	\$183,490.28
10579	SEWER SYSTEM	853,362.98	Yes	\$853,362.98
10580	SEWER SYSTEM	939.35	Yes	\$939.35
10581	SEWER SYSTEM ADDITIONS	80,265.50	Yes	\$80,265.50
10582	SEWER SYSTEM ADDITIONS	53,517.49	Yes	\$53,517.49
10583	SEWER SYSTEM ADDITIONS	25,013.67	Yes	\$25,013.67
10584	SEWER SYSTEM ADDITIONS	17,760.00	Yes	\$17,760.00
10585	SEWER SYSTEM ADDITIONS	42,302.97	Yes	\$42,302.97
10586	SEWER SYSTEM ADDITIONS	121,461.27	Yes	\$121,461.27
10587	SEWER SYSTEM ADDITIONS	69,319.04	Yes	\$69,319.04
10588	SEWER ADDITIONS	78,536.77	Yes	\$78,536.77
10589	SEWER ADDITIONS	182,089.86	Yes	\$182,089.86
10590	SEWER ADDITIONS	44,185.99	Yes	\$44,185.99
10591	SEWER ADDITIONS	144,645.89	Yes	\$144,645.89
10592	SEWER SYSTEM ADDITIONS	91,998.30	Yes	\$91,998.30
10593	SEWER SYSTEM ADDITIONS	52,116.57	Yes	\$52,116.57
10594	SEWER SYSTEM ADDITIONS	260,747.95	Yes	\$260,747.95
10595	SEWER SYSTEM ADDITIONS	71,482.34	Yes	\$71,482.34
10596	SEWER SYSTEM ADDITIONS	16,979.23	Yes	\$16,979.23
10998	SEWER SYSTEM ADDITIONS	31,963.98	Yes	\$31,963.98
11012	SEWER SYSTEM ADDITIONS	44,949.00	Yes	\$44,949.00
11029	SEWER SYSTEM ADDITIONS	62,238.19	Yes	\$62,238.19
11040	SEWER SYSTEM ADDITIONS	25,507.01	Yes	\$25,507.01
11050	SEWER SYSTEM ADDITIONS	31,889.50	Yes	\$31,889.50
11067	SEWER SYSTEM ADDITIONS	26,740.72	Yes	\$26,740.72
11133	SEWER SYSTEM ADDITIONS	6,813.00	Yes	\$6,813.00
11166	3900 SOUTH - REHAB SEWER	53,714.80	Yes	\$53,714.80
11167	SUB-DIV SEWER ENGINEER	4,797.00	No	\$0.00
11168	SEWER SYSTEM	6,492.00	Yes	\$6,492.00
11169	STANDARD DETAILS SEWER	846.80	Yes	\$846.80
11200	Sewer System	19,740.00	Yes	\$19,740.00
11235	SEWER SYSTEM ADDITIONS	125,226.40	Yes	\$125,226.40
11262	SEWER SYSTEM ADDITIONS	1,143,189.59	Yes	\$1,143,189.59
11296	SEWER SYSTEM ADDITIONS	48,882.31	Yes	\$48,882.31

11299	SEWER SYSTEM ADDITIONS	339,013.25	Yes	\$339,013.25
11303	SEWER SYSTEM ADDITIONS	91,443.15	Yes	\$91,443.15
11316	SEWER SYSTEM ADDITIONS	135,720.00	Yes	\$135,720.00
11317	SEWER SYSTEM ADDITIONS	440,923.72	Yes	\$440,923.72
11347	Sewer Line Rehab Misc	720,352.82	Yes	\$720,352.82
11348	4100 S Sewer Line Project	1,450,875.86	Yes	\$1,450,875.86
11349	3900 South - Rehab	236,463.48	Yes	\$236,463.48
11350	Sub-Div Sewer Engineer	2,557.00	No	\$0.00
11354	Water Conservation Plan Update	1,250.00	No	\$0.00
	District Standards & Specifications			
11355	Update	50.00	No	\$0.00
11424	Sampler Hatch	2,468.29	Yes	\$2,468.29
11437	SEWER SYSTEM ADDITIONS	65,742.81	Yes	\$65,742.81
11499	Sewer System - addition	1,197,199.88	Yes	\$1,197,199.88
11519	SEWER REHAB	651,062.48	Yes	\$651,062.48
11520	SUB DIVISION - SEWER ENGINEERING	11,943.21	No	\$0.00
11521	CITY PROJECTS	19,169.00	Yes	\$19,169.00
	Sewer Rehab - Redwood &			
11583	Meadowbrook Expressway	2,019,667.21	Yes	\$2,019,667.21
11584	Manhole Coating	23,640.00	Yes	\$23,640.00
11585	Subdivision Water Engineer	3,954.00	No	\$0.00
11609	Barrington Park Lift Station	25,548.83	Yes	\$25,548.83
11618	Subdivision Sewer Engineer	249.09	No	\$0.00

**Total Sewer
System #1-
1655**

14,061,196.64

**Sewer Mains
- Subdivision
- #1-1660**

10601	SEWER MAINS - SUBDIVISIONS	154,184.12	No	\$0.00
10602	SEWER MAINS - SUBDIVISIONS	81,384.65	No	\$0.00
10603	SEWER MAINS - SUBDIVISIONS	74,311.67	No	\$0.00
10604	SEWER MAINS - SUBDIVISIONS	74,980.19	No	\$0.00
10605	SEWER MAINS - SUBDIVISIONS	103,452.17	No	\$0.00
10606	SEWER MAINS - SUBDIVISIONS	2,752.23	No	\$0.00
10607	SEWER MAINS - SUBDIVISIONS	80,329.96	No	\$0.00
10608	SEWER MAINS - SUBDIVISIONS	30,323.21	No	\$0.00
10609	SEWER MAINS - SUBDIVISIONS	9,907.45	No	\$0.00
10610	SEWER MAINS - SUBDIVISIONS	15,440.50	No	\$0.00
10611	SEWR MAINS - SUBDIVISIONS	19,872.91	No	\$0.00
10612	SEWER MAINS - SUBDIVISIONS	28,300.30	No	\$0.00
10613	SEWER MAINS - SUBDIVISIONS	60,018.98	No	\$0.00

10614	SEWER MAINS - SUBDIVISIONS	59,001.20	No	\$0.00
10615	SEWER MAINS - SUBDIVISIONS	130,747.75	No	\$0.00
10616	SEWER MAINS - SUBDIVISIONS	158,088.37	No	\$0.00
10617	SEWER MAINS - SUBDIVISIONS	175,305.45	No	\$0.00
10618	SEWER MAINS - SUBDIVISIONS	300,329.15	No	\$0.00
10619	SEWER MAINS - SUBDIVISIONS	486,785.57	No	\$0.00
10620	SEWER MAINS - SUBDIVISIONS	895,641.77	No	\$0.00
10621	SEWER MAINS - SUBDIVISIONS	512,110.10	No	\$0.00
10622	SEWER MAINS - SUBDIVISIONS	172,856.10	No	\$0.00
10623	SEWER MAINS - SUBDIVISIONS	391,140.55	No	\$0.00
10624	SEWER MAINS - SUBDIVISIONS	175,403.00	No	\$0.00
10625	SEWER MAINS - SUBDIVISIONS	427,665.00	No	\$0.00
10626	SEWER MAINS - SUBDIVISIONS	407,430.75	No	\$0.00
10627	SEWER SYSTEM - SUBDIVISIONS	578,661.00	No	\$0.00
10628	SUBDIVISION	387,928.00	No	\$0.00
10629	SEWER SYSTEM - SUBDIVISION	316,224.00	No	\$0.00
10630	SUBDIVISION	1,882.50	No	\$0.00
10631	SUBDIVISION	106,118.60	No	\$0.00
10632	SUBDIVISION	178,627.00	No	\$0.00
10633	SEWER SYSTEM - SUBDIVISION	149,127.00	No	\$0.00
10634	SEWER SYSTEM - SUBDIVISION	164,669.00	No	\$0.00
10635	SEWER SYSTEM - SUBDIVISION	74,726.00	No	\$0.00
10636	SEWER SYSTEM - SUBDIVISION	65,249.00	No	\$0.00
10637	SEWER SYSTEM - SUBDIVISION	288,737.40	No	\$0.00
10638	SEWER SYSTEM - SUBDIVISION	128,764.72	No	\$0.00
10639	SEWER MAINS - SUBDIVISIONS	334,531.00	No	\$0.00
10640	SEWER MAINS - SUBDIVISIONS	329,568.50	No	\$0.00
10641	SEWER MAINS - SUBDIVISIONS	396,324.00	No	\$0.00
10642	SEWER MAINS - SUBDIVISIONS	337,119.93	No	\$0.00
10643	SEWER MAINS - SUBDIVISIONS	227,164.93	No	\$0.00
10644	SEWER MAINS-SUBDIVISIONS	159,049.00	No	\$0.00
10645	SEWER MAINS-SUBDIVISIONS	160,939.50	No	\$0.00
10646	SEWER MAINS-SUBDIVISIONS	165,753.00	No	\$0.00
11022	SEWER MAINS-SUBDIVISIONS	219,991.00	No	\$0.00
11033	SEWER MAIN-SUBDIVISIONS	146,226.00	No	\$0.00
11057	SEWER MAIN-SUBDIVISIONS	103,040.00	No	\$0.00
11123	AUDIT ADDITIONS	152,906.00	No	\$0.00
11201	Sewer Audit additions '08	93,248.00	No	\$0.00
11243	SEWER MAIN - SUBDIVISION ADDITIONS	34,483.00	No	\$0.00
11300	SEWER MAIN - SUBDIVISION ADDITIONS	55,196.00	No	\$0.00
11311	SEWER MAIN - SUBDIVISION ADDITIONS	23,917.50	No	\$0.00
11335	Sew Sub-Divison Contributed	145,724.00	No	\$0.00
11422	SEWER MAIN - SUBDIVISION ADDITION	46,714.00	No	\$0.00

11473	SEWER MAIN - SUBDIVISION	140,259.92	No	\$0.00
11495	Sewer System - subdivision addition	50,265.07	No	\$0.00
11571	SEWER MAIN - SUBDIVISION	163,508.91	No	\$0.00
11607	Sewer Mainlines Contributed	191,927.25	No	\$0.00

**Total Sewer
Mains -
Subdivision
#1-1660**

11,146,333.83

**Water
System - #1-
1665**

10405	WATER SYSTEMS ADDITIONS	79,134.58	Yes	\$79,134.58
10406	WATER SYSTEMS ADDITIONS	202,828.21	Yes	\$202,828.21
10407	WATER SYSTEMS ADDITIONS	130,237.05	Yes	\$130,237.05
10408	WATER SYSTEMS ADDITIONS	151,831.49	Yes	\$151,831.49
10409	WATER SYSTEMS ADDITIONS	124,893.73	Yes	\$124,893.73
10410	WATER SYSTEMS ADDITIONS	156,313.68	Yes	\$156,313.68
10411	WATER SYSTEMS ADDITIONS	539,521.65	Yes	\$539,521.65
10412	WATERY SYSTEMS ADDITIONS	174,442.62	Yes	\$174,442.62
10413	WATER SYSTEMS ADDITIONS	276,304.36	Yes	\$276,304.36
10414	WATER SYSTEMS ADDITIONS	154,380.81	Yes	\$154,380.81
10415	WATER SYSTEMS ADDITIONS	793,406.97	Yes	\$793,406.97
10416	WATER SYSTEMS ADDITIONS	752,499.31	Yes	\$752,499.31
10417	WATER SYSTEMS ADDITIONS	292,610.20	Yes	\$292,610.20
10418	REPLACED LINES	196,499.06	Yes	\$196,499.06
10421	WATER SYSTEM ADDITION	620,366.84	Yes	\$620,366.84
10422	WATER SYSTEM ADDITIONS	137,885.44	Yes	\$137,885.44
10423	WATER SYSTEM ADDITION	582,314.67	Yes	\$582,314.67
10424	WATER PROJECTS	1,491,790.25	Yes	\$1,491,790.25
10425	WATER SYSTEM ADDITIONS	2,960,077.33	Yes	\$2,960,077.33
10426	WELLS PROJECTS	3,186,214.53	Yes	\$3,186,214.53
10427	WATER SYSTEMS	529,192.32	Yes	\$529,192.32
10428	WATER SYSTEMS	3,605,265.57	Yes	\$3,605,265.57
10429	WATER SYSTEMS ADDITONS	545,050.14	Yes	\$545,050.14
10430	WATER SYSTEMS ADDITIONS	221,091.35	Yes	\$221,091.35
10431	WATER SYSTEMS ADDITIONS	2,302.51	Yes	\$2,302.51
10432	WATER SYSTEM ADDITIONS	482,972.76	Yes	\$482,972.76

10433	WATER SYSTEM ADDITIONS	1,325,736.46	Yes	\$1,325,736.46
10434	WATER WYWTEM ADDITIONS	366,695.07	Yes	\$366,695.07
10435	WATER SYSTEM ADDITIONS	81,105.11	Yes	\$81,105.11
10436	WATER SYSTEM ADDITIONS	135,352.56	Yes	\$135,352.56
10437	WATER SYSTEM ADDITIONS	139,354.14	Yes	\$139,354.14
10438	WATER SYSTEM ADDITIONS	73,993.55	Yes	\$73,993.55
10439	WATER SYSTEM ADDITIONS	819,068.13	Yes	\$819,068.13
10440	WATER SYSTEM ADDITIONS	1,004,735.24	Yes	\$1,004,735.24
10441	WATER SYSTEM ADDITIONS	4,675,044.95	Yes	\$4,675,044.95
10442	WATER SYSTEM ADDITIONS	1,406,932.91	Yes	\$1,406,932.91
10443	WATER SYSTEM ADDITIONS	323,280.17	Yes	\$323,280.17
11003	WATER SYSTEM ADDITIONS	140,619.92	Yes	\$140,619.92
11014	WATER SYSTEM ADDITIONS	54,050.67	Yes	\$54,050.67
11030	WATER SYSTEM ADDITIONS	69,719.17	Yes	\$69,719.17
11041	WATER SYSTEM ADDITIONS	65,051.43	Yes	\$65,051.43
11051	WATER SYSTEM ADDITIONS	64,269.20	Yes	\$64,269.20
11081	WATER SYSTEMS ADDITION	186,644.10	Yes	\$186,644.10
11116	WATER SYSTEMS	130,591.98	Yes	\$130,591.98
11118	#954 - 58050 DATA COLLECTOR GIS/GPS (60%)	2,374.31	No	\$0.00
11122	WATER SYSTEM - MEMORIAL ESTATE	52,291.00	Yes	\$52,291.00
11134	WATER SYSTEM ADDITIONS	1,407.50	Yes	\$1,407.50
11135	WATER SYSTEM ADDITIONS	51,979.00	Yes	\$51,979.00
11137	WATER SYSTEMS ADDITIONS	18,198.00	Yes	\$18,198.00
11140	WIDDISON TURBINE	36,637.00	Yes	\$36,637.00
11143	WATER SYSTEM ADDITIONS	111,611.29	Yes	\$111,611.29
11170	STANDARD DETAILS WATER	1,270.20	Yes	\$1,270.20
11171	WATER SYSTEM ADDITIONS	15,132.20	Yes	\$15,132.20
11172	KEARNS WATER	42,170.00	Yes	\$42,170.00
11173	LOW ZONE WATER	3,734.50	Yes	\$3,734.50
11174	HIGH ZONE WATER	193.50	Yes	\$193.50
11175	WATER SYSTEM ADDITIONS	144,618.10	Yes	\$144,618.10
11199	WATER LINE REHAB	7,428.69	Yes	\$7,428.69
11202	Water System	3,386.54	Yes	\$3,386.54
11236	WATER SYSTEM ADDITIONS	979,120.35	Yes	\$979,120.35
11263	WATER SYSTEM ADDITIONS	4,582,229.47	Yes	\$4,582,229.47
11293	WATER SYSTEMS ADDITIONS	35,055.53	Yes	\$35,055.53
11295	WATER SYSTEMS ADDITIONS	2,517.52	Yes	\$2,517.52
11298	WATER SYSTEM ADDITIONS	2,581,471.77	Yes	\$2,581,471.77
11305	WATER SYSTEM ADDITIONS	691,931.99	Yes	\$691,931.99
11318	WATER SYSTEM ADDITIONS	688,816.96	Yes	\$688,816.96
11337	Arc Sitio Design Inc	3,085.12	Yes	\$3,085.12
11351	Sub-Div Water Engineer	2,154.05	No	\$0.00

11356	New Telemetry Panels	5,950.00	Yes	\$5,950.00
11357	New Telemetry Panels	5,750.00	Yes	\$5,750.00
11358	Low Zone Tank Site Upgrade	290,910.13	Yes	\$290,910.13
11359	High Zone Tank Site Upgrade Phase 1	39,583.60	Yes	\$39,583.60
11360	Water Study-20 Year Plan, Model	26,557.90	Yes	\$26,557.90
11361	District Standards & Specifications	50.00	No	\$0.00
11440	WATER SYSTEMS ADDITIONS	18,072.50	Yes	\$18,072.50
11441	WATER MAIN	34,316.13	Yes	\$34,316.13
11449	Water System Addition	251,467.14	Yes	\$251,467.14
11523	WATER LINE PROJECTS	149,848.59	Yes	\$149,848.59
11524	SUB DIVISION WATER ENGINEER	19,457.95	No	\$0.00
11525	LOW ZONE NORTH RES	3,280.00	Yes	\$3,280.00
11586	Waterline - Kehl	201,382.56	Yes	\$201,382.56
11587	Waterline - Quailstone	700,496.60	Yes	\$700,496.60
11588	Waterline - LZ Upgrades WL	37,399.60	Yes	\$37,399.60
11589	Engineering - Water Subdivision	2,597.40	No	\$0.00
11595	Low Zone North Landscaping	324,841.50	Yes	\$324,841.50
11604	5200 West 6200 South Booster Remodel	15,130.00	Yes	\$15,130.00
11608	Water Mainlines Contributed	172,354.90	Yes	\$172,354.90
11617	5200 West 6200 South Booster Remodel	23,573.00	Yes	\$23,573.00
11619	Stanley Glen Waterline	3,478.82	Yes	\$3,478.82
11620	Subdivision Water Engineer	249.09	No	\$0.00
11621	5200 West 6200 South Booster Remodel	23,609.36	Yes	\$23,609.36
11628	24" Waterline Design & Easements	4,519.94	Yes	\$4,519.94

**Total Water
System #1-
1665**

41,865,363.49

**Meters &
Accessories -
#1-1670**

10007	METERS & ACCESORIES	93,005.09	No	\$0.00
10962	METERS AND ACCESORIES	26,744.58	No	\$0.00
10963	METERS AND ACCESORIES	31,050.49	No	\$0.00
10964	METERS & ACCESORIES	42,750.23	No	\$0.00
10965	METERS & ACCESORIES	33,271.39	No	\$0.00
10966	METERS & ACCESORIES	24,780.66	No	\$0.00
10967	METERS & ACCESORIES	18,820.85	No	\$0.00
10968	METERS & ACCESORIES	118,780.02	No	\$0.00
10969	METERS & ACCESSORIES	553,026.08	No	\$0.00
10970	METERS & ACCESSORIES	607,373.80	No	\$0.00
10971	METERS & ACCESSORIES	266,461.98	No	\$0.00

10972	METERS & ACCESSORIES	90,699.24	No	\$0.00
10973	METERS & ACCESSORIES	252,765.47	No	\$0.00
10974	METERS & ACCESSORIES	72,751.30	No	\$0.00
10989	METERS & ACCESSORIES	57,474.61	No	\$0.00
10996	METERS & ACCESSORIES	931,300.47	No	\$0.00
11011	METERS & ACCESSORIES	882,270.34	No	\$0.00
11021	METERS & ACCESSORIES	75,474.82	No	\$0.00
11039	METERS & ACCESSORIES	35,712.88	No	\$0.00
11048	METERS & ACCESSORIES	82,472.09	No	\$0.00
11105	METERS & ACCESSORIES	1,340,434.58	No	\$0.00
11141	METERS & ACCESSORIES	812,756.80	No	\$0.00
11142	METERS & ACCESSORIES	59,300.77	No	\$0.00
11176	WATER METERS	19,284.57	No	\$0.00
11177	PIPE FITTINGS	13,892.72	No	\$0.00
11237	METERS & ACCESSORIES	97,278.96	No	\$0.00
11264	METERS & ACCESSORIES	303,425.50	No	\$0.00
11286	METERS & ACCESSORIES	711,708.61	No	\$0.00
11306	METERS & ACCESSORIES	753,210.50	No	\$0.00
11320	WATER METERS	16,448.07	No	\$0.00
11321	PIPE FITTING & ACCESSORIES	63,797.36	No	\$0.00
11362	Water Meters	40,595.54	No	\$0.00
11363	Pipe Fittings & Accessories	57,959.98	No	\$0.00
11442	METERS & ACCESSORIES	33,107.80	No	\$0.00
11443	PIPE FITTINGS	26,131.36	No	\$0.00
11496	Mtrs, fittings & Acc addition	40,923.63	No	\$0.00
11528	WATER METERS	14,183.67	No	\$0.00
11529	PIPE FITTING AND ACCESSORIES	49,537.66	No	\$0.00
11596	METERS & ACCESSORIES	48,789.55	No	\$0.00
11597	Pipe Fittings and Accessories	71,318.41	No	\$0.00
11610	METERS & ACCESSORIES	52,981.51	No	\$0.00
11611	Pipe Fittings and Accessories	12,534.68	No	\$0.00

**Total Meters
&
Accessories
#1-1670**

8,936,588.62

**Water Mains
Subdivision -
#1-1675**

10452	WATER MAINS - SUBDIVISIONS	3,403.28	No	\$0.00
10453	WATER MAINS - SUBDIVISIONS	19,016.49	No	\$0.00

10454	WATER MAINS - SUBDIVISIONS	26,696.97	No	\$0.00
10455	WATER MAINS - SUBDIVISIONS	57,390.11	No	\$0.00
10456	WATER MAINS - SUBDIVISIONS	53,380.21	No	\$0.00
10457	WATER MAINS - SUBDIVISIONS	70,319.01	No	\$0.00
10458	WATER MAINS - SUBDIVISIONS	15,346.35	No	\$0.00
10459	WATER MAINS - SUBDIVISIONS	203,155.96	No	\$0.00
10460	WATER MAINS - SUBDIVISIONS	300,135.70	No	\$0.00
10461	WATER MAINS - SUBDIVISIONS	467,570.55	No	\$0.00
10462	WATER MAINS - SUBDIVISIONS	942,061.55	No	\$0.00
10463	WATER MAINS - SUBDIVISIONS	428,532.94	No	\$0.00
10464	WATER MAINS - SUBDIVISIONS	154,312.79	No	\$0.00
10465	WATER MAINS - SUBDIVISIONS	551,398.55	No	\$0.00
10466	WATER MAINS - SUBDIVISION	265,039.00	No	\$0.00
10467	WATER MAINS - SUBDIVISIONS	513,166.00	No	\$0.00
10468	WATER MAINS - SUBDIVISIONS	348,888.75	No	\$0.00
10469	WATER MAINS - SUBDIVISIONS	824,941.00	No	\$0.00
10470	WATER MAINS - SUBDIVISIONS	469,340.00	No	\$0.00
10471	WATER MAINS - SUBDIVISION	332,256.00	No	\$0.00
10472	SUBDIVISION	1,882.50	No	\$0.00
10473	SUBDIVISION	142,841.00	No	\$0.00
10474	SUBDIVISION	247,852.00	No	\$0.00
10475	WATER MAINS - SUBDIVISIONS	158,782.40	No	\$0.00
10476	WATER MAINS - SUBDIVISION	193,791.00	No	\$0.00
10477	WATER MAINS - SUBDIVISION	61,509.00	No	\$0.00
10478	WATER MAINS - SUBDIVISION	61,868.00	No	\$0.00
10479	WATER MAINS - SUBDIVISION	275,980.40	No	\$0.00
10480	WATER MAINS - SUBDIVISION	148,585.72	No	\$0.00
10481	WATER MAINS - SUBDIVISION	630,566.50	No	\$0.00
10482	WATER MAINS - SUBDIVISIONS	371,129.50	No	\$0.00
10483	WATER MAINS - SUBDIVISION	472,945.00	No	\$0.00
10484	WATER MAINS - SUBDIVISIONS	284,942.93	No	\$0.00
10485	WATER MAINS - SUBDIVISIONS	247,529.93	No	\$0.00
10486	WATER MAINS-SUBDIVISIONS	214,606.00	No	\$0.00
11002	WATER MAINS-SUBDIVISION	246,008.75	No	\$0.00
11013	WATER MAINS-SUBDIVISION	209,568.00	No	\$0.00
11023	WATER MAINS-SUBDIVISION	232,746.00	No	\$0.00
11034	WATER MAINS-SUBDIVISIONS	195,631.00	No	\$0.00
11058	WATER MAIN-SUBDIVISIONS	204,600.00	No	\$0.00
11124	AUDIT ADDITIONS	220,648.00	No	\$0.00
11203	Water Audit Additions 08	152,551.00	No	\$0.00
11244	WATER MAIN - SUBDIVISION ADDITIONS	218,266.00	No	\$0.00
11301	WATER MAIN - SUBDIVISION ADDITIONS	60,168.00	No	\$0.00
11312	WATER MAIN - SUBDIVISIONS ADDITION	40,281.50	No	\$0.00

11336	Water Sub-Division Contritution	163,330.95	No	\$0.00
11421	WATER MAIN - SUBDIVISION ADDITION	129,463.05	No	\$0.00
11451	Water Main - Subdivision Addition	46,982.80	No	\$0.00
11474	WATER MAIN - SUBDIVISION	463,998.02	No	\$0.00
11572	WATER MAIN - SUBDIVISION	295,997.45	No	\$0.00

**Total Water
Mains
Subdivisions
#1-1675**

12,441,403.61

**Water Mains
WS Water -
#1-1680**

10988	WTR. SYS. CONTR BY WEST SID	520,607.87	Yes	\$520,607.87
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**Total Water
Mains WS
Water #1-
1680**

520,607.87

**Telemetrying
- #1-1685**

11270	HP COMPUTER	1,450.00	No	\$0.00
10251	TELEMETERING SYSTEM	44,126.37	No	\$0.00
10252	TELEMETERING SYSTEM	1,650.00	No	\$0.00
10253	TELEMETERING SYSTEM	2,650.00	No	\$0.00
10254	TELEMETERING SYSTEM	42,653.18	No	\$0.00
10255	TELEMETERING SYSTEM	4,430.00	No	\$0.00
10256	REMOTE CONTROL SYSTEM	65,755.48	No	\$0.00
10257	REMOTE CONTROL SYSTEM	163,374.50	No	\$0.00
10258	TELEMETERING SYSTEM	1,270.00	No	\$0.00
10259	REMOTE CONTROL SYSTEM	3,929.00	No	\$0.00
10260	TELEMETERING SYSTEM	1,023.00	No	\$0.00
10261	REMOTE CONTROL SYSTEM	2,890.00	No	\$0.00
10262	TELEMETERING SYSTEM	7,885.77	No	\$0.00
10263	TELEMETERING SYSTEM	1,988.62	No	\$0.00
10264	TELEMETERING - H2	480.98	No	\$0.00
10265	TELEMETERING - CONDUIT/FITTING	166.92	No	\$0.00
10266	TELEMETERING-WIRE/CORD	127.56	No	\$0.00
10267	TELEMETERING-CORD/GASKET	343.04	No	\$0.00

10268	TELEMETERING-WIRE/CLAMPS	328.94	No	\$0.00
10269	TELEMETERING-GROUND TESTING	765.00	No	\$0.00
10270	TELEMETERING-SCADA RADIO EQUIP	48,600.00	No	\$0.00
10271	TELEMETERING-STRAP/CONNECT	97.65	No	\$0.00
10272	TELEMETERING-CONNECT	218.25	No	\$0.00
10273	TELEMETERING-BRASS VALVES	218.32	No	\$0.00
10274	TELEMETERING-CLAMPS	190.54	No	\$0.00
10275	TELEMETERING-SHANK DRIVER/GRIPS	103.71	No	\$0.00
10276	TELEMETERING-WALL LADDER/CHANN	158.02	No	\$0.00
10277	TELEMETERING-FLASHING	74.33	No	\$0.00
10278	TELEMETERING-WASHERS/NUTS	79.56	No	\$0.00
10279	TELEMETERING-PWER SURGE PROTCT	470.50	No	\$0.00
10280	TELEMETERING-TRENCHER	156.37	No	\$0.00
10281	TELEMETERING-SCODA RADIO	100,450.00	No	\$0.00
10282	TELEMETERING-RELAYS	150.80	No	\$0.00
10283	TELEMETERING-GROUNDING ROD	237.84	No	\$0.00
10284	TELEMETERING-CLAMPS/BUSHINGS	392.74	No	\$0.00
10285	TELEMETERING-MARKER/STRAPS/CLAM	208.10	No	\$0.00
10286	TELEMETERING-RELAY SOCKETS	173.00	No	\$0.00
10287	TELEMETERING-WIRE	361.75	No	\$0.00
10288	TELEMETERING-COPPER CORD/CLAMP	1,074.04	No	\$0.00
10289	TELEMETERING-TAPE/CLAMPS	550.71	No	\$0.00
10290	TELEMETERING-CLAMPS/GROUND ROD	449.05	No	\$0.00
10291	TELEMETERING-GROUND ROD/CLAMPS	287.76	No	\$0.00
10292	TELEMETERING-SCODA RADIO	53,550.00	No	\$0.00
10293	TELEMETERING-SCREWS	245.00	No	\$0.00
10294	TELEMETERING-TRANSDUCER	4,573.88	No	\$0.00
10295	TELEMETERING-SCADA	7,450.00	No	\$0.00
10296	TELEMETERING-POWER METERS	2,764.93	No	\$0.00
10297	TELEMETERING-LOGO MOD SOFTWARE	2,791.00	No	\$0.00
10298	TELEMETERING-SURGE SUPPRESSOR	342.00	No	\$0.00
10299	TELEMETERING-PRESSURE STUDDS	395.03	No	\$0.00
10300	TELEMETERING	1,669.22	No	\$0.00
10301	TELEMETERING-ELECTRICAL	574.59	No	\$0.00
10302	TELEMETERING-WIRE & CABLE	623.00	No	\$0.00
10999	SURVELLIANCE CAMERAS	11,228.00	No	\$0.00
11000	RTVS FOR TELEMETERING	14,600.00	No	\$0.00
11001	ELECTRICAL BOXES TELEMETERING	550.00	No	\$0.00
11064	2 RADIOS - 9710D (well-site)	1,613.25	No	\$0.00
11065	27 RADIOS - 970B (well-site)	18,627.00	No	\$0.00
11178	TELEMETERING REMOTE SYSTEM	4,500.00	No	\$0.00
11259	GE MDS REPEATER (JV FACILITY)	12,646.95	No	\$0.00
11265	TELEMETERING	9,496.27	No	\$0.00

11328	TELEMETERING SYS	6,500.00	No	\$0.00
11452	Telemetering System Addition	11,925.50	No	\$0.00
11530	OFFICE TELEMETERING	3,000.00	No	\$0.00

**Total
Telemetering
#1-1685**

671,657.02

**Water Wells
- #1-1690**

10350	NEW WELL	52,506.30	Yes	\$52,506.30
10351	WATER WELL	15,572.66	Yes	\$15,572.66
10352	WATER WELL	6,871.02	Yes	\$6,871.02
10353	PUMP IN WTR WELL 18TH WEST	10,355.30	Yes	\$10,355.30
10354	IMPR TO PUMP 18TH WEST	671.71	No	\$0.00
10355	WELL PUMP DESANDER & AUTO CON	8,856.00	No	\$0.00
10356	BARKER WELL	12,246.54	Yes	\$12,246.54
10357	WELLS DRILLED	30,274.20	Yes	\$30,274.20
10358	WELL PUMP IMPROVED	575.00	No	\$0.00
10360	NEW WELL & APP OF NEW WELL	12,500.50	Yes	\$12,500.50
10361	NEW WELL AT 5400 SOUTH	86,235.78	Yes	\$86,235.78
10362	WATER WELLS	332,974.25	Yes	\$332,974.25
10363	WATER WELLS	91,884.15	Yes	\$91,884.15
10364	WATER WELLS	138,769.47	Yes	\$138,769.47
10365	WATER WELLS	231,055.97	Yes	\$231,055.97
10367	WATER WELLS	48,039.40	Yes	\$48,039.40
10368	WATER WELLS	43,695.80	Yes	\$43,695.80
10369	WATER WELLS	99,334.72	Yes	\$99,334.72
10370	WELLS PROJECTS	590,192.75	Yes	\$590,192.75
10371	WATER WELLS	944,582.40	Yes	\$944,582.40
10373	WATER WELLS	878,497.49	Yes	\$878,497.49
10374	WATER WELLS	484,366.82	Yes	\$484,366.82
10375	BARKER WEST	46.79	Yes	\$46.79
10376	MEADOWBROOD NORTH	760.01	Yes	\$760.01
10377	TAYLORSVILLE WEST	1,177.50	Yes	\$1,177.50
10379	FAIRWAY	760.00	Yes	\$760.00
10380	LIFT STATION	759.99	Yes	\$759.99
10381	BARKER EAST	1,649.15	Yes	\$1,649.15
10382	RAWSON	471.62	Yes	\$471.62
10383	ATHERTON EAST	24,745.85	Yes	\$24,745.85
10384	ATHERTON WEST	94,609.48	Yes	\$94,609.48
10385	5600 WEST	160,817.25	Yes	\$160,817.25

10386	WATER WELLS	479,065.88	Yes	\$479,065.88
10387	WATER WELLS	35,899.00	Yes	\$35,899.00
10388	WATER WELLS	12,580.00	Yes	\$12,580.00
10389	WATER WELLS	31,965.13	Yes	\$31,965.13
10390	ATHERTON WEST	500.00	Yes	\$500.00
10391	WATER WELLS	3,886.00	Yes	\$3,886.00
10392	WATER WELLS	1,908.00	Yes	\$1,908.00
10393	WATER WELLS	846.50	Yes	\$846.50
10394	WATER WELLS	8,977.06	Yes	\$8,977.06
10395	WATER WELLS	56,787.76	Yes	\$56,787.76
10396	WATER WELLS	138,461.10	Yes	\$138,461.10
10397	WATER WELLS	332,074.03	Yes	\$332,074.03
10398	WATER WELLS	73,798.02	Yes	\$73,798.02
11004	WATER WELLS	93,947.00	Yes	\$93,947.00
11024	WATER WELLS	8,235.00	Yes	\$8,235.00
11138	WATER WELLS	3,190.00	Yes	\$3,190.00
11180	PIONEER WELL	829,261.50	Yes	\$829,261.50
11181	VALLEY WELL	44,860.25	Yes	\$44,860.25
11204	Water wells	31,831.85	Yes	\$31,831.85
11238	WATER WELLS	1,914,716.05	Yes	\$1,914,716.05
11266	WATER WELLS	99,215.09	Yes	\$99,215.09
11289	WATER WELLS	680,218.23	Yes	\$680,218.23
11307	WATER WELLS	212,191.59	Yes	\$212,191.59
11329	WATER WELLS	1,737.50	Yes	\$1,737.50
11330	WATER WELLS	1,000.00	Yes	\$1,000.00
11331	WATER WELLS	3,000.00	Yes	\$3,000.00
11352	5300 S (replacement)	12,872.84	Yes	\$12,872.84
11444	WATER WELLS -SWENSON	369,445.00	Yes	\$369,445.00
11497	Water Wells additions	1,488,884.60	Yes	\$1,488,884.60
11531	WELLS BUDGET	32.32	Yes	\$32.32
11532	NELSON REPLACEMENT	39,552.43	Yes	\$39,552.43
11590	Swensen Well	37,223.15	Yes	\$37,223.15

**Total Water
Wells #1-
1690**

11,454,018.75

**Wells
Mechanical -
#1-1695**

10901	WELLS MECHANICAL RECLASS	60,223.00	Yes	\$60,223.00
10902	WELLS MECHANICAL	25,000.00	Yes	\$25,000.00

10903	WELLS MECHANICAL	54,397.00	Yes	\$54,397.00
10904	WELLS MECHANICAL	6,568.00	Yes	\$6,568.00
10906	WELLS MECHANICAL	4,102.00	Yes	\$4,102.00
10907	WELLS MECHANICAL	49,023.00	Yes	\$49,023.00
10908	WELLS MECHANICAL	165,147.00	Yes	\$165,147.00
10909	WELLS MECHANICAL	92,384.65	Yes	\$92,384.65
10910	WELLS MECHANICAL	60,918.09	Yes	\$60,918.09
10911	5400 SOUTH	352.92	Yes	\$352.92
10912	TAY EAST 4800 S	246.14	Yes	\$246.14
10913	WHITE # 1	1,595.51	Yes	\$1,595.51
10914	BAKER	503.33	Yes	\$503.33
10915	MEADOWBROOK NORTH	4,843.10	Yes	\$4,843.10
10916	TAYLORSVILLE WEST	46,184.31	Yes	\$46,184.31
10918	FAIRWAY	5,168.10	Yes	\$5,168.10
10919	LIFT STATION	5,168.11	Yes	\$5,168.11
10920	SUNSTONE	250.40	Yes	\$250.40
10921	BARKER EAST	45,481.50	Yes	\$45,481.50
10922	RAWSON	1,060.04	Yes	\$1,060.04
10923	ATHERTON EAST	81,442.99	Yes	\$81,442.99
10924	ATHERTON WEST	1,699.00	Yes	\$1,699.00
10925	WATER WELLS MECHANICAL	88,936.88	Yes	\$88,936.88
10926	WATER WELLS MECHANICAL	56,204.38	Yes	\$56,204.38
10927	WATER WELLS MECHANICAL	8,286.70	Yes	\$8,286.70
10928	MEADOWBROOK NORTH	4,750.09	Yes	\$4,750.09
10929	ATHERTON EAST	2,107.94	Yes	\$2,107.94
10930	5600 WEST	5,550.00	Yes	\$5,550.00
10931	ATHERTON EAST	4,846.41	Yes	\$4,846.41
10932	HIGH ZONE EAST	5,781.00	Yes	\$5,781.00
10933	5400 SOUTH	2,150.00	Yes	\$2,150.00
10934	KEARNS	2,356.40	Yes	\$2,356.40
10935	BARKER	2,150.00	Yes	\$2,150.00
10936	MEADOWBROOK NORTH	2,150.00	Yes	\$2,150.00
10937	TAYLORSVILLE WEST	2,511.83	Yes	\$2,511.83
10939	RAWSON	2,150.00	Yes	\$2,150.00
10940	ATHERTON WEST	2,150.00	Yes	\$2,150.00
10941	HIGH ZONE EAST	8,507.00	Yes	\$8,507.00
10942	MEADOWBROOK NORTH	5,363.01	Yes	\$5,363.01
10943	FAIRWAY	2,213.01	Yes	\$2,213.01
10944	ATHERTON WEST	106,702.45	Yes	\$106,702.45
10945	TAY EAST (4800)	2,858.10	Yes	\$2,858.10
10946	BARKER	7,404.54	Yes	\$7,404.54
10947	MEADOWBROOK NORTH	22,351.58	Yes	\$22,351.58
10948	TAYLORSVILLE WEST	4,000.00	Yes	\$4,000.00

10950	BARKER EAST	4,424.34	Yes	\$4,424.34
10951	RAWSON	1,980.30	Yes	\$1,980.30
10952	TAY EAST (4800)	160,098.25	Yes	\$160,098.25
10953	BARKER	67,600.89	Yes	\$67,600.89
10954	RAWSON	13,635.00	Yes	\$13,635.00
10955	SHAW	439.94	Yes	\$439.94
10982	TAY EAST (4800)	70,630.80	Yes	\$70,630.80
10983	WHITE #2	2,850.00	Yes	\$2,850.00
10984	SHAW	1,110.92	Yes	\$1,110.92
10985	5600 WEST	5,029.00	Yes	\$5,029.00
10986	ATHERTON EAST	13,146.00	Yes	\$13,146.00
10987	HIGH ZONE EAST	1,671.35	Yes	\$1,671.35
11006	SHAW	43,176.74	Yes	\$43,176.74
11007	BARKER EAST	1,550.00	Yes	\$1,550.00
11008	ATHERTON EAST	43,166.00	Yes	\$43,166.00
11015	ATHERTON WEST	16,978.00	Yes	\$16,978.00
11016	BARKER WEST	481.75	Yes	\$481.75
11025	ATHERTON EAST	32,600.76	Yes	\$32,600.76
11042	ATHERTON WEST	13,326.00	Yes	\$13,326.00
11052	5300 SOUTH	29,833.26	Yes	\$29,833.26
11053	BARKER WEST	1,711.59	Yes	\$1,711.59
11054	BARKER EAST	78,440.50	Yes	\$78,440.50
11055	ATHERTON EAST	49,725.30	Yes	\$49,725.30
11056	ATHERTON WEST	22,381.00	Yes	\$22,381.00
11097	WELLS MECHANICAL	15,500.00	Yes	\$15,500.00
11098	TAYLORSVILLE WEST	23,704.53	Yes	\$23,704.53
11100	ATHERTON WEST	1,290.25	Yes	\$1,290.25
11182	TAYLORSVILLE WEST	27,918.00	Yes	\$27,918.00
11184	FAIRWAY	1,206.91	Yes	\$1,206.91
11185	SHAW	52,807.50	Yes	\$52,807.50
11186	BARKER EAST	34,027.00	Yes	\$34,027.00
11198	ATHERTON EAST	27,618.00	Yes	\$27,618.00
11239	WATER WELLS MECHANICAL	156,568.53	Yes	\$156,568.53
11267	BARKER WEST	9,338.19	Yes	\$9,338.19
11268	BARKER EAST	233,384.34	Yes	\$233,384.34
11269	RAWSON	2,336.24	Yes	\$2,336.24
11270	ATHERTON WEST	112,570.54	Yes	\$112,570.54
11290	WELLS - MECHANICAL ADDITIONS	139,757.46	Yes	\$139,757.46
11308	WELLS - MECHANICAL ADDITIONS	248,811.07	Yes	\$248,811.07
11319	WELLS - MECHANICAL ADDITIONS	263,714.90	Yes	\$263,714.90
11364	Taylorville East (4800)	194,790.30	Yes	\$194,790.30
11365	2 HVAC Units (Barker & Millrace Treatment)	12,105.10	Yes	\$12,105.10

11366	6" Globe Valve for Taylorsville West	6,084.25	Yes	\$6,084.25
11367	Atherton East Well Rehabilitation	72,655.10	Yes	\$72,655.10
11445	TAY EAST	18,845.00	Yes	\$18,845.00
11446	TAY WEST	9,300.75	Yes	\$9,300.75
11447	VALLEY	9,312.50	Yes	\$9,312.50
11498	Wells - Mechanical addition	58,493.90	Yes	\$58,493.90
11515	WELLS MECHANICAL - SWENSON	287,435.00	Yes	\$287,435.00
11533	TREATMENT STATIONS	187,315.58	Yes	\$187,315.58
11534	TAYLORSVILLE WEST	221,386.52	Yes	\$221,386.52
11535	VALLEY	509,072.24	Yes	\$509,072.24
11536	ATHERTON EAST	3,103.75	Yes	\$3,103.75
11537	SWENSON	54,187.14	Yes	\$54,187.14
11538	SWENSEN WELL - TIE TO 17 AUDIT	13,775.00	Yes	\$13,775.00
11591	Barker Electrolizer	116,591.95	Yes	\$116,591.95
11592	Meadowbrook North - Check Valve	1,985.00	Yes	\$1,985.00
11593	Valley - Auxiliary Power	17,699.76	Yes	\$17,699.76
11594	Atherton East - Refurb	269,446.02	Yes	\$269,446.02
11595	Swensen Well	54,583.87	Yes	\$54,583.87
11627	Swensen Motor	37,880.49	Yes	\$37,880.49

**Total Wells
Mechanical
#1-1695**

5,245,829.88

**Fence Encl &
Landscaping
- #1-1700**

10051	FENCES AROUND RESERVOIRS	2,358.00	Yes	\$2,358.00
10052	FENCE WELL & PUMP HOUSE 18 W.	2,058.72	Yes	\$2,058.72
10053	FNCE NEW PROP SO OFF WELL BLKT	930.00	Yes	\$930.00
10054	FENCE AT 45TH SOUTH	2,450.00	Yes	\$2,450.00
10055	FENCE AT NEW WELL SITE	966.00	Yes	\$966.00
10056	FENCE AT NEW RESERVOIR SITE	3,584.00	Yes	\$3,584.00
10057	FENCING & LANDSCAPING RES	32,338.66	Yes	\$32,338.66
10058	LAND IMPROVEMENT TREES & SCRUB	4,646.00	Yes	\$4,646.00
10059	FENCE 1250 W. 5300 SO. WELL	2,000.00	Yes	\$2,000.00
10060	FENCE FINLAYSON WELL	5,281.28	Yes	\$5,281.28
10061	FENCE 1300 W. WELL	4,665.49	Yes	\$4,665.49
10062	BLACKWALL FOR BUTLER GARAGE	13,364.00	Yes	\$13,364.00
10063	ASPHALT PARKING AREA OFF SITE	14,388.10	Yes	\$14,388.10

**Total Fence
Encl &
Landscaping
- #1-1700**

89,030.25

**Chemical
Add Bldg -
#1-1705**

11020	CHEMICAL ADDITION BUILDINGS	804,788.00	Yes	\$804,788.00
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**Total
Chemical
Add Bldg -
#1-1705**

804,788.00

**Furniture &
Fixtures - #1-
1710**

360	TABLE,BLACK,WALNUT VENEER,COPY	117.56	No	\$0.00
424	PLAN HOLDER,UPRIGHT MAP DRAWER	2,129.00	No	\$0.00
434	SHELF/CABINET,GREY,METER READE	1,282.00	No	\$0.00
517	KEITHS OFFICE FURNITURE	2,673.30	No	\$0.00
698	BRD RM TABLE, RACE TRACK, OAK	1,907.24	No	\$0.00
902	LOCKKERS	3,700.43	No	\$0.00
937	CHAIR	53.33	No	\$0.00
961	FOOD & BEVERAGE DISPENSER	4,946.24	No	\$0.00
965	TELEPHONE EQUIPMENT	16,598.93	No	\$0.00
1021	SHARP COLOR COPIER	6,314.00	No	\$0.00
1124	MAP FILE CABINET	1,804.90	No	\$0.00
1136	LARGER CREDENZA	1,798.26	No	\$0.00
1137	SMALLER CREDENZA	1,420.84	No	\$0.00
1138	LETTER OPENER	3,224.00	No	\$0.00
11026	TABLES, CHAIRS, LIGHT FIXTURES	3,977.22	No	\$0.00
11043	TV ANTENNA BOOSTER	49.99	No	\$0.00
11044	ROLLAWAY FILE	249.99	No	\$0.00
11045	FURNITURE-FLOYD'S OFFICE	5,949.95	No	\$0.00
11060	WATER HEATER - SHOP	332.10	No	\$0.00
11061	TELEPHONE SOFTWARE	4,027.00	No	\$0.00
11187	INTERIOR SOLUTIONS	92,604.00	No	\$0.00
11188	MISC. OFFICE FURNISHINGS	2,561.56	No	\$0.00
11254	FLAT FILE DRAWER-SAFECO	5,099.85	No	\$0.00
11271	MAP ROOM REMODEL	4,211.00	No	\$0.00
11368	Office Furnishings	3,169.77	No	\$0.00

11448	REPLACEMENT LOBBY 4 L-Shaped interworks stations -	2,486.67	No	\$0.00
11500	Secretaries	10,422.26	No	\$0.00
11501	Storage Lockers	661.37	No	\$0.00
11502	Chair mat	149.00	No	\$0.00
11503	Cubicle Reconfiguration	2,353.18	No	\$0.00
11504	Chair Mat	113.87	No	\$0.00
11539	DEPOSIT BOX - DRIVE UP	2,638.90	No	\$0.00
11540	ROCK DROP BOX	20.00	No	\$0.00
11541	CONCRETE FOR DROP BOX	1,750.00	No	\$0.00
11542	PARKING LOT SIGNS	45.38	No	\$0.00

**Total
Furniture &
Fixtures - #1-
1710**

190,843.09

**Pictures - #1-
1710**

554	PICTURE - FRESH MOMENTS-HORSES	230.00	No	\$0.00
1108	PAINTING AL ROUNDS	1,656.63	No	\$0.00

**Total
Pictures - #1-
1710**

1,886.63

**Inside No
Tag - #1-
1715**

10656	LOCKERS FOLDING TABLE LATERAL	988.70	No	\$0.00
10682	DOOR SIGNS	209.70	No	\$0.00
10706	OFFICE BLINDS	1,043.05	No	\$0.00
10711	SYMPHONY SOFTWARE	395.00	No	\$0.00
10716	REUPOLSTER COUCH & CHAIR	200.00	No	\$0.00
10721	SYMPHONY UPGRADE	100.00	No	\$0.00
10735	BLINDS	516.50	No	\$0.00
10736	COMPUTER SOFTWARE	60.00	No	\$0.00
10737	SOFTWARE UPGRADE	250.00	No	\$0.00
10738	COMPUTER PROGRAMMING	720.00	No	\$0.00
10746	SOFTWARE-LOTUS	99.00	No	\$0.00
10752	COMPUTER PROGRAMS	763.00	No	\$0.00
10753	ARCVIEW COMPUTER PROGRAM	495.00	No	\$0.00

10760	PLANTS	580.74	No	\$0.00
10766	SOFTWARE - PRO COM	96.00	No	\$0.00
10767	SOFTWARE - CALENDAR CREAT	39.99	No	\$0.00
10774	SOFTWARE - MS WORKS	83.00	No	\$0.00
10775	COMPUTER PROGRAMMING	945.00	No	\$0.00
10777	NETWORK PROGRAMING	82.69	No	\$0.00
10780	DYNASTY SOFTWARE	8,700.00	No	\$0.00
10781	NETWORK PROGRAMMING	1,225.00	No	\$0.00
10783	PERFECTOFFICE SOFTWARE	1,822.00	No	\$0.00
10787	NETWORK SET-UP	980.00	No	\$0.00
10788	NETWORK SET-UP	1,960.00	No	\$0.00
10789	TRAINING TAPES, HARDWARE, MEM	2,012.50	No	\$0.00
10790	WINDOWS SOFTWARE, NORTON UTILI	2,735.00	No	\$0.00
10791	NETWORK WIRE	236.50	No	\$0.00
10792	NETWORK TRAINING	2,205.31	No	\$0.00
10793	SOFTWARE NOVELL 4.1	1,150.00	No	\$0.00
10794	CONVERSION PROGRAMMING	4,245.00	No	\$0.00
10797	SOFTWARE-VACATION TIME	56.24	No	\$0.00
10798	DATA CONVERSION	2,400.00	No	\$0.00
10799	COMPUTER TRAINING	2,006.57	No	\$0.00
10800	SIX FILES CONVERSION	1,875.00	No	\$0.00
10801	CONVERSION PROGRAMMING	6,492.50	No	\$0.00
10826	ADVANCE SOFTWARE	3,500.00	No	\$0.00
10827	SOFTWARE	12,482.00	No	\$0.00
10828	REMOTE CONTROL SYS-SOFTWARE	1,178.00	No	\$0.00
10829	TELEPHONE MODULE 008	4,597.50	No	\$0.00
10830	TELEPHONE MODULE & MODEM	2,197.50	No	\$0.00
10831	COMPUTER SOFTWARE - NOT TAGGED	895.00	No	\$0.00
10832	DYNASTY SOFTWARE - NOT TAGGED	13,575.00	No	\$0.00
10833	DSI SFTWR CONVERSN-NOT TAGGED	8,413.00	No	\$0.00
10834	METROSONIC SOFTWARE-NOT TAGGED	400.23	No	\$0.00
10835	WINDOWS 95 SOFTWARE-NOT TAGGED	485.00	No	\$0.00
10836	COREL SOFTWARE-NOT TAGGED	440.00	No	\$0.00
10837	SOFTWARE UPGRADE-NOT TAGGED	850.00	No	\$0.00
10838	ARCVIEW SOFTWARE-NOT TAGGED	4,624.00	No	\$0.00
10839	DYNASTY SFTWR UPGRADE-NOT TAG	12,296.23	No	\$0.00
10840	OFFICE REPEATER-NOT TAGGED	137.50	No	\$0.00
10841	SOFTWARE - NOT TAGGED	5,534.00	No	\$0.00
10842	DYNASTY SOFTWARE-NOT TAGGED	14,550.00	No	\$0.00
10843	BUSINESS WORKS CONSULT-NO TAG	4,000.00	No	\$0.00
10844	SOFTWARE/PROGRAM/TRAINING	38,892.43	No	\$0.00
10845	METER READ EQ,WAND,CORD,ADPATE	2,026.08	No	\$0.00
10846	MISCELLANEOUS COMPUTER EQUIP	450.63	No	\$0.00

10847	TELEPHONE SYSTEM	2,776.43	No	\$0.00
10848	CHAIR MATTS	338.00	No	\$0.00
10849	ACCOUNTING SOFTWARE	11,332.00	No	\$0.00
10850	BILLING SOFTWARE	1,800.00	No	\$0.00
10851	WP OFFICE 2000 SOFTWARE	99.00	No	\$0.00
10852	NEW SOFTWARE	3,375.00	No	\$0.00
10853	ACCOUNTING SOFTWARE	12,532.00	No	\$0.00
10854	FURNITURE, DESKS, NOT TAGGED	1,988.61	No	\$0.00
10855	STACKING CHAIRS-36-NOT TAGGED	2,582.50	No	\$0.00
10980	OFFICE COUNTER TOPS-NOT TAGGED	13,117.73	No	\$0.00
10981	15 STACKING CHAIRS-NOT TAGGED	329.77	No	\$0.00
10990	SOFTWARE-AUTOCAD PROGRAM	3,182.90	No	\$0.00
10991	SOURCE CODE BILLING SOFTWARE	500.00	No	\$0.00
	MILWAUKEE SCREWDRIVER/OFFICE			
10992	SECURITY CAM	1,043.30	No	\$0.00
10993	SOFTWARE OFFICE	629.78	No	\$0.00
11009	UPGRADE SERVER	3,974.00	No	\$0.00
11019	VISIO SOFTWARE	464.97	No	\$0.00
11027	SOFTWARE	504.24	No	\$0.00
11036	AUTOCAD MAP	1,860.60	No	\$0.00
11046	ARCVIEW SOFTWARE LICENSE	3,608.25	No	\$0.00
11047	MS SOFTWARE	1,597.92	No	\$0.00

**Total Inside
No Tag - #1-
1715**

246,930.09

**Computer -
#1-1720**

542	HP4000TN PRINTER (office)	1,710.00	No	\$0.00
572	MICRON COMPUTER-64MG (Keith)	2,097.36	No	\$0.00
599	INTEL SWITCH ON SERVER PORT	2,199.00	No	\$0.00
654	IOS FEATURE	2,760.00	No	\$0.00
706	COMPUTER, P3/733, RON	805.86	No	\$0.00
710	NETWORK SWITCH	2,397.00	No	\$0.00
736	COMPUTER LS MICRO	849.37	No	\$0.00
796	SCANNER METROLOGIC	1,750.00	No	\$0.00
818	DIALER MICROTEL	1,250.00	No	\$0.00
952	HP Laptop Computer	1,350.00	No	\$0.00
996	COMPUTER HP-WORKSTATION	2,200.00	No	\$0.00
999	COMPUTER HP-WORKSTATION	2,200.00	No	\$0.00
1001	METER READER	19,500.00	No	\$0.00

1023	PANASONIC LAPTOP	2,650.38	No	\$0.00
1028	HP LAPTOP	2,420.80	No	\$0.00
1029	HP COMPUTER	1,250.00	No	\$0.00
1030	HP COMPUTER	1,250.00	No	\$0.00
1031	HP COMPUTER	1,750.00	No	\$0.00
1032	HP COMPUTER	1,100.00	No	\$0.00
1033	ECLIPSE SERVER	2,223.00	No	\$0.00
1035	HP SWITCH	2,200.00	No	\$0.00
1105	HP COMPUTER	2,143.83	No	\$0.00
1106	HP LAPTOP COMPUTER	1,235.04	No	\$0.00
1115	GPS RECEIVER	20,700.00	No	\$0.00
1116	GPS DATA COLLECTOR	4,045.50	No	\$0.00
11062	SOFTWARE SPATIAL IM-4	7,955.00	No	\$0.00
11063	SOFTWARE PMT	2,500.00	No	\$0.00
11128	ESRI-ARCVIEW SOFTWARE -1 LICENSE	1,209.11	No	\$0.00
11129	ESRI- ARCVIEW LICENSE - 1	1,209.23	No	\$0.00
11130	GATEWAY MAPPING - SPATIAL IM - 1 LICENSE	1,495.00	No	\$0.00
11144	COMPUTER PURCHASE RECLASS	1,450.00	No	\$0.00
11210	HP LAPTOP	1,515.35	No	\$0.00
11211	HP LAPTOP	1,515.35	No	\$0.00
11212	HP LAPTOP	1,515.35	No	\$0.00
11215	HP COMPUTER	1,450.00	No	\$0.00
11216	SAMSUNG MONITOR	159.99	No	\$0.00
11217	LG MONITOR	149.58	No	\$0.00
11218	HP PRINTER	469.48	No	\$0.00
11219	ZOOM RECORDING SYSTEM	585.00	No	\$0.00
11251	PLOTTER - DESIGN JET T2300	8,500.00	No	\$0.00
11252	HP LAPTOP-ELITE BOOK 8740	1,400.00	No	\$0.00
11253	HP LAPTOP-ELITE BOOK 8540	1,400.00	No	\$0.00
11272	VLCM SOFTWARE	8,396.53	No	\$0.00
11283	CASELLE SOFTWARE	5,000.00	No	\$0.00
11284	ARCVIEW SOFTWARE LICENSE	1,350.00	No	\$0.00
11369	16 GB Memory, Windows 8 for New Server	425.58	No	\$0.00
11370	Email Service	12,707.30	No	\$0.00
11371	Docuware Business Server	4,341.25	No	\$0.00
11372	Docuware Upgrade to Professional Level	5,700.00	No	\$0.00
11373	HP Laptop	1,508.58	No	\$0.00
11374	Security System Shop	5,150.94	No	\$0.00
11375	Surface Pro Cover, HP Monitor	211.51	No	\$0.00
11376	Surface Pro 3 Tablet	1,243.00	No	\$0.00
11382	Zbook Laptop	1,511.69	No	\$0.00

11386	Doc Scanning	5,758.26	No	\$0.00
11391	Office Serveillance System	15,321.00	No	\$0.00
11395	Office Surveillance System-draw	15,321.00	No	\$0.00
11396	ArcView Software Licence	1,353.00	No	\$0.00
11397	Zlaptop	1,484.26	No	\$0.00
11398	Board Room AV	25,311.70	No	\$0.00
11416	HP Laptop	1,508.00	No	\$0.00
11417	HP Computer	1,351.23	No	\$0.00
11418	HP Computer (Server)	3,504.00	No	\$0.00
11419	HP Server	4,284.70	No	\$0.00
11423	Laptop (HP Probook 650)	1,264.45	No	\$0.00
11438	Work Station Computer (HP Z440)	1,220.26	No	\$0.00
11450	17" ZBOOK LAPTOP	1,480.74	No	\$0.00
11453	8 LED MONITORS	1,925.68	No	\$0.00
11454	HP PLOTTER	645.68	No	\$0.00
11455	HP PLOTTER	6,495.00	No	\$0.00
11456	ZBOOK LAPTOP FOR BRIAN	1,198.27	No	\$0.00
11457	WORKSTATION COMPUTER FOR LANCE	3,291.81	No	\$0.00
11458	VIDEO CARD	152.83	No	\$0.00
11467	COMPUTER ADDITIONS	4,422.58	No	\$0.00
11483	Laptop (HP Probook 650G1)	1,264.45	No	\$0.00
11484	Laptop (HP Probook 640G1)	1,499.00	No	\$0.00
11485	Laptop (HP Probook 650 G1)	1,264.45	No	\$0.00
11486	Laptop (HP Probook 650 G1)	1,290.12	No	\$0.00
11505	Workstation Computer Monitor	92.25	No	\$0.00
11506	TV Truck Software	32,240.71	No	\$0.00
11543	SHARP MX-4070N PRINTER	7,596.50	No	\$0.00
11544	COMPUTER	3,416.92	No	\$0.00
11545	COMPUTER	760.72	No	\$0.00
11546	3 DESKTOP COMPUTERS	5,066.67	No	\$0.00
11547	IPAD CASE & COVER	88.95	No	\$0.00
11548	IPAD CASE	14.99	No	\$0.00
11549	5 IPADS	1,775.00	No	\$0.00
11599	Security System (NVR) - Hardware Replacement	3,512.00	No	\$0.00
11602	Modeling Software - WaterCAD	18,477.00	No	\$0.00
11605	Boardroom Laptop - HP	1,401.38	No	\$0.00
11613	Desktop Computer - Marshall	1,127.23	No	\$0.00
11631	NAS Serve - 8 TB	4,702.85	No	\$0.00
11632	Barracuda Backup Device	6,132.13	No	\$0.00

**Total
Computer -
#1-1720**

355,079.73

**Inside
Equipment
Tagged - #1-
1720**

860	PROJECTOR DELL	1,474.77	No	\$0.00
908	COPIER SHARP AR-M455N	5,211.00	No	\$0.00
1126	HP COMPUTER	1,371.59	No	\$0.00
11189	TELEPHONE SYSTEM	4,533.52	No	\$0.00
11240	INSIDE EQUIPMENT TAGGED	62,250.00	No	\$0.00
11332	IPAD COVERS	1,587.00	No	\$0.00
11333	IPAD COVERS	272.65	No	\$0.00
11334	MONITOR	294.70	No	\$0.00
11612	Data Collector	6,479.10	No	\$0.00

**Total Inside
Equipment
Tagged - #1-
1720**

83,474.33

**Telephone -
#1-1720**

180	MERLIN MAIL,MAIN CONTROL DOWNS	3,665.87	No	\$0.00
181	ATT POWERMATE,DOWNSTAIRS	500.00	No	\$0.00
182	ATT TALKMATE, DOWNSTAIRS	500.00	No	\$0.00
184	PHONE,BY MAIN SYSTEM	300.00	No	\$0.00
186	PHONE,DOWNSTAIRS KITCHEN	300.00	No	\$0.00
187	PHONE, TAMI X160	400.00	No	\$0.00
188	PHONE,TAMI EXTENSION UNIT,60	400.00	No	\$0.00
189	PHONE, LARAYE,X163	400.00	No	\$0.00
190	PHONE, LOLA, X161	400.00	No	\$0.00
191	PHONE, LINDA,X162	400.00	No	\$0.00
192	PHONE,KEITH,X166	400.00	No	\$0.00
193	PHONE,FRONT COUNTER,X157	300.00	No	\$0.00
194	PHONE, DRIVE-UP,X155	300.00	No	\$0.00
195	PHONE,COMPUTER RM,X154	300.00	No	\$0.00

196	PHONE,COPY RM, X142	300.00	No	\$0.00
199	PHONE, FLOYD, X164	400.00	No	\$0.00
200	PHONE,KEVIN, X175	400.00	No	\$0.00
201	PHONE, TRACY, X170	400.00	No	\$0.00
202	PHONE,LUNCH RM OUTSIDE, X141	300.00	No	\$0.00
203	PHONE, RON, X185	350.00	No	\$0.00
204	PHONE-SPEAKER, RON	300.00	No	\$0.00
207	PHONE, SHOP, X140	300.00	No	\$0.00
397	PHONE, STORAGE, 10 BUTTON	300.00	No	\$0.00
401	PHONE, STORAGE	300.00	No	\$0.00
402	PHONE, STORAGE	300.00	No	\$0.00
603	MERLIN LEGEND TELEPHONE BOARD	408.00	No	\$0.00
675	ATT BLACK 10 BUTTON PHONE	320.00	No	\$0.00
676	RECEPTIONIST PHONE, 20 BUTTON	552.00	No	\$0.00
677	50 BUTTON ADDITIONAL CONSOLE	280.00	No	\$0.00
678	10 BUTTON PHONE	320.00	No	\$0.00
679	10 BUTTON PHONE	320.00	No	\$0.00
680	10 BUTTON PHONE	320.00	No	\$0.00
681	10 BUTTON PHONE	320.00	No	\$0.00
682	10 BUTTON PHONE]	320.00	No	\$0.00
11481	Phone System Avaya + Battery backup	16,513.09	No	\$0.00
11482	Phone server (Dell Power Edge R23) Two Computer Desktops - Ron (WS-40) & Joe (WS-41)	16,413.09	No	\$0.00
11579	Firewall - Security Appliance	3,959.65	No	\$0.00
11580	Microsoft Sequel Server 2017	3,025.00	No	\$0.00
11581		7,544.08	No	\$0.00

**Total
Telephone -
#1-1720**

62,830.78

**Electrical
Equip - #1-
1730**

562	MILWAUKEE HAMMER DRILL	237.54	No	\$0.00
629	RECORDER-METROSONIC	8,014.52	No	\$0.00
631	PRESSURE CALIBRATOR	2,504.52	No	\$0.00
726	GENERATOR WHEELER	34,931.91	No	\$0.00
786	WIRE CRIMPER BURDY	2,154.48	No	\$0.00
896	GENERATOR CATERPILLER	33,125.00	No	\$0.00

11207	MEGGAR POWER ANALYZER	11,813.42	No	\$0.00
11214	WHELEN LIGHTBAR	1,090.00	No	\$0.00
11225	WANCO SIGN BOARD	4,604.00	No	\$0.00
11227	HONDA SNOWBLOWER	2,600.00	No	\$0.00
11228	STANLEY CHIPPING HAMMER	2,207.50	No	\$0.00
11399	Janitor's Cart	149.99	No	\$0.00
11400	Sanitaire Floor Machine	1,287.66	No	\$0.00
11401	Pressure Washer	3,895.00	No	\$0.00
11402	Water Softner - Shop	2,290.00	No	\$0.00
11488	Flow Logger Hach	3,828.37	No	\$0.00
11489	Flow Monitor Hach	12,482.00	No	\$0.00
11490	2" Pump Honda	1,034.94	No	\$0.00
11491	Jack Hammer (Ingersoll Rand)	4,095.00	No	\$0.00
11513	Jackhammer	1,095.00	No	\$0.00
11582	Bosch Dell Communicator - Instution System	6,523.00	No	\$0.00
11606	Hand Chop Saw	1,416.43	No	\$0.00
11615	Walk Behind Saw	7,576.00	No	\$0.00
11616	Vibration Analyzer	2,266.66	No	\$0.00
11629	Tripod & Harnass	3,288.97	No	\$0.00
11630	Security Glass - Lobby	19,788.00	No	\$0.00
11633	Barricades	708.78	No	\$0.00
11634	Access Security System	26,851.98	No	\$0.00

**Total
Electrical
Equip - #1-
1730**

201,860.67

**Outside
Equipment -
#1-1730**

90	TRAILER-ALUMINUM HIGH PRESSURE	1,500.00	No	\$0.00
91	COMPRESSOR	3,786.20	No	\$0.00
92	PUMP - 6 TRASH	12,379.94	No	\$0.00
134	LOCATOR OFFICE IN CASE	2,100.00	No	\$0.00
391	JACK HAMMER,USED WITH NEW COMP	1,076.00	No	\$0.00
396	TAMPER, POGO STICK	1,000.00	No	\$0.00

403	TRAILER,6'X10' LOW RAIL	1,079.00	No	\$0.00
406	COMPACTOR-PLATE,PORTABLE VIBRA	1,620.00	No	\$0.00
437	AIR CHIPPER, 60LBS	421.38	No	\$0.00
455	PUMP 3	1,627.49	No	\$0.00
460	HOSE REEL FOR COMPRESSOR	695.00	No	\$0.00
504	LATERAL CAMERA	9,868.66	No	\$0.00
520	LIFE LINE - SELF RETRACTING	1,665.00	No	\$0.00
552	4 TRASH PUMP	2,046.70	No	\$0.00
584	2 TRASH PUMP	1,124.01	No	\$0.00
694	4' HYDRALIC KNOCKOUT, GREENLEE	1,037.78	No	\$0.00
719	CAMERA COLOR SEWER LATERAL	4,250.00	No	\$0.00
775	POWER ANALYZER	2,083.70	No	\$0.00
787	TAMPER BOMAG	1,943.67	No	\$0.00
801	GENERATOR COLEMAN	501.00	No	\$0.00
816	WELDER ESAB	1,677.71	No	\$0.00
862	CONCRETE SAW TARGET	3,832.45	No	\$0.00
866	DATA COLLECTOR TRIMBLE	4,909.00	No	\$0.00
915	VALVE EXERCISER POWER DR	6,256.00	No	\$0.00
917	AIR COMPRESSOR	1,138.45	No	\$0.00
956	WATT METER	1,028.25	No	\$0.00
962	HANDHELD READERS	3,750.00	No	\$0.00
963	HANDHELD READERS	3,750.00	No	\$0.00
964	HANDHELD READERS	3,750.00	No	\$0.00
967	GENERATOR	2,910.00	No	\$0.00
969	BO MAG TAMPER	2,790.00	No	\$0.00
1004	HONDA SNOW BLOWER	2,759.00	No	\$0.00
1005	THERMAL IMAGER	4,250.00	No	\$0.00
1015	PT SAMPLER	2,739.80	No	\$0.00
1047	AEMC MEGOHMETER	1,805.00	No	\$0.00
1102	CALIBRATOR FOR WELLS	5,465.03	No	\$0.00
1107	AIR COMPRESSOR	15,700.00	No	\$0.00
1119	COMPACTOR	3,096.39	No	\$0.00
1120	TAPPING MACHINE	2,961.53	No	\$0.00
1128	GODWIN PUMP	55,008.61	No	\$0.00
1129	PRESSURE WASHER HYDROTEK	5,900.00	No	\$0.00
1130	SIGMA SAMPLER	3,598.25	No	\$0.00
2003	TORPEDO	2,900.00	No	\$0.00
2004	POWER ANALYZER	2,011.86	No	\$0.00
11126	2 TREE PRUNERS	93.75	No	\$0.00
11127	1000' Coax Cable	90.52	No	\$0.00
11222	WACHS VALVE MACHINE	49,328.00	No	\$0.00
11224	HYPERTHERM PLASMA CUTTER	1,597.00	No	\$0.00
11229	FISHER METAL DETECTOR	650.20	No	\$0.00

11230	FISHER METAL DETECTOR	659.31	No	\$0.00
11231	STIHL POLE SAW	660.94	No	\$0.00
11232	HAMMERHEAD TORPEDO	5,011.19	No	\$0.00
11241	OUTSIDE EQUIPMENT	41,617.31	No	\$0.00
11247	PIPE SAW - STANLEY (VALVE TRUCK)	4,832.50	No	\$0.00
11249	PORTABLE PNEUMATIC CALIBRATOR	3,283.85	No	\$0.00
11250	AIR COMPRESSOR - RIGID (9 GALLON)	835.49	No	\$0.00
11459	IMPACT WRENCH FOR HYDRANT	9,410.50	No	\$0.00
11460	TAP MACHINE	3,165.90	No	\$0.00
11461	VIBRA PLATE COMPACTOR	2,061.00	No	\$0.00
11462	SNOW BLOWER	2,870.10	No	\$0.00
11463	NEW JUMPING JACK	2,750.59	No	\$0.00
11464	20 VERTICAL PANELS W/ 20 LB BASE	1,160.00	No	\$0.00
11465	MAINTENENCE EQUIPMENT	406.00	No	\$0.00
11468	HEAT SHRINK FOR NEW WELL LOCKS	71.11	No	\$0.00
11469	SHRINK TUBING	13.10	No	\$0.00
11470	REBAR FOR SECURITY CAMERA	11.90	No	\$0.00
11471	25 FOBS	146.25	No	\$0.00
11472	ALARM LOCK PC CABLE	132.60	No	\$0.00
11508	Serveillance System @ pavement Stations	2,249.00	No	\$0.00
11509	Alarm lock PDK 300 MS Lock Pads & Supplies	8,444.03	No	\$0.00
11550	GROUND LEAK MICROPHONE	10,689.00	No	\$0.00
11551	LEAK DETECTION EQUIPMENT	15,467.00	No	\$0.00
11603	Camera Head Purchase	5,459.83	No	\$0.00
11577	Fluke Meter	5,045.00	No	\$0.00
11578	Meter Testing Bench	33,839.93	No	\$0.00
11614	Meter Testing Equipment	3,277.44	No	\$0.00

**Total
Outside
Equipment -
#1-1730**

411,123.20

**Pre-
Treatment
Equipment -
#1-1730**

658	PT SAMPLER	2,124.37	No	\$0.00
946	SAMPLER SIGMA	2,381.50	No	\$0.00

1104	SAMPLER/SEWER	3,799.95	No	\$0.00
11314	CHLORINE ANALYZER	12,451.21	No	\$0.00
11315	FLUORIDE/CHLORING	6,128.00	No	\$0.00
11507	Portable Compact Sampler & Battery Charger	3,468.29	No	\$0.00
11552	HACH AS950 COMPACT SAMPLER	3,869.87	No	\$0.00
11622	Pretreatment Sampler	3,951.76	No	\$0.00

**Total Pre-
Treatment
Equipment -
#1-1730**

38,174.95

**Radios - #1-
1730**

537	REPEATER - P.A.	1,290.00	No	\$0.00
538	REPEATER - DUPLEXER	1,743.00	No	\$0.00
622	RADIO, SPEAKERS, LIGHT BAR	1,268.18	No	\$0.00
722	RADIO DESK SET	380.00	No	\$0.00
863	RADIO KENWOOD	604.50	No	\$0.00
11208	KENWOOD RADIO	678.98	No	\$0.00
11209	KENWOOD RADIO	678.98	No	\$0.00
11213	KENWOOD RADIO	678.98	No	\$0.00

**Total Radios
- #1-1730**

7,322.62

**Outside
Equip - No
Tag - #1-
1735**

2006	TORPEDO	5,354.70	No	\$0.00
2007	OFFICE BACKUP GENERATOR	207.99	No	\$0.00
2008	TRENCH PANELING	1,294.80	No	\$0.00
10001	FORKS FOR LIFT-NOT TAGGED	1,545.86	No	\$0.00
10739	HOSE ASSEMBLY	218.00	No	\$0.00
10819	UTILITY BOXES (TOOLS)	618.00	No	\$0.00
10956	FIRST AID KITS	1,471.30	No	\$0.00

10957	COMPRESSOR WITH JD DIESEL ENGI	9,992.00	No	\$0.00
10958	DUMP TRUCK BODY #15	4,025.00	No	\$0.00
10959	BEDLINER 95 FORD	169.90	No	\$0.00
10960	BEDLINER	710.00	No	\$0.00
10961	TRENCHING SAFETY EQUIPMENT	1,655.80	No	\$0.00
10978	SOFTWARE FOR GAS DETECTORS	343.84	No	\$0.00
10997	EQUIPMENT	29,707.31	No	\$0.00
11010	FLOURIDE PROJECT	22,745.96	No	\$0.00
11018	FLOURIDE PROJECT	512,937.45	No	\$0.00
11028	FLOURIDE PROJECT	150,438.68	No	\$0.00
11031	SAFETY EQUIPMENT	190.07	No	\$0.00
11035	CLAMPS	966.30	No	\$0.00
	HELMETS, FACESHIELDS, ARC FLASH			
11037	EQUIP	584.59	No	\$0.00
11038	METERING PUMP	1,279.43	No	\$0.00

**Total
Outside
Equip - No
Tag - #1-
1735**

746,456.98

**Trucks & Big
Equipment -
#1-1740**

470	LIGHT BAR #10	894.00	No	\$0.00
476	LIGHT BAR #4	1,065.00	No	\$0.00
481	56065 1983 VAN-TV REMODEL	110,000.00	No	\$0.00
483	TRAFIC LIGHTS-CHEV 4	926.00	No	\$0.00
532	TRAFFIC LIGHTS - TV TRUCK	861.00	No	\$0.00
567	2-1/2 TON INT'L DUMP TRUCK#520	53,579.00	No	\$0.00
568	LIGHT BAR FOR DUMP TRUCK(#567)	1,470.00	No	\$0.00
714	TRUCK UTILITY BED	4,575.00	No	\$0.00
771	LIGHT BAR WHELEN	1,454.81	No	\$0.00
772	TRUCK FORD	67,000.00	No	\$0.00
840	BOBCAT	23,155.00	No	\$0.00
976	Skid Steer	1,200.00	No	\$0.00
981	TOOL BOX, PIPE RACK	2,740.00	No	\$0.00
986	TV VAN - CHASIS, EQUIPMENT	144,109.50	No	\$0.00
1003	TRAILER 2008	21,750.00	No	\$0.00
1006	SNOW PLOW	5,471.00	No	\$0.00
1007	SNOW SPREADER	1,590.00	No	\$0.00
1010	VEHICLE LIGHTING SOLUTIONS-566	1,508.72	No	\$0.00

1013	VEHICLE LIGHTING SOLUTIONS-567	1,723.14	No	\$0.00
1017	LATERAL CAMERA TV TRUCK	8,935.52	No	\$0.00
1041	WHELEN LIGHTBAR	1,499.60	No	\$0.00
1101	LIGHTBAR WHELEN	1,121.80	No	\$0.00
1110	LIGHTBAR WHELEN	1,121.80	No	\$0.00
1117	LIGHTBAR WHELEN	1,156.46	No	\$0.00
1123	LIGHTBAR WHELEN	1,156.46	No	\$0.00
1131	FORD TRUCK	22,277.72	No	\$0.00
		-22,277.72		
1132	FORD EXPLORER	25,969.50	No	\$0.00
1133	FORD TRUCK	22,297.00	No	\$0.00
		-22,297.00		
1134	WHELEN LIGHT BAR	1,156.46	No	\$0.00
		-1,156.46		
1135	WHELEN LIGHT BAR	1,156.46	No	\$0.00
		-1,156.46		
11119	AIR BREAKS NEW TRAILER	1,226.78	No	\$0.00
11132	SKIDSTEER	1,000.00	No	\$0.00
11195	AUTO - LUCIE'S SEAT COVERS	555.00	No	\$0.00
		-555.00		
11196	AUTO - TIEN H BUI	370.00	No	\$0.00
		-370.00		
11197	SKID-STEER	1,500.00	No	\$0.00
11220	FORD TRUCK	33,183.00	No	\$0.00
11221	KNACK TOOLBOX	493.75	No	\$0.00
11226	WHELEN LIGHTBAR	500.00	No	\$0.00
11242	TRUCKS	16,864.32	No	\$0.00
11246	LIGHT BAR (#576)	1,119.76	No	\$0.00
11274	LIGHT BARS - #577	2,380.88	No	\$0.00
11275	HYDRAULIC PUMP (VALVE TRUCK)	2,003.86	No	\$0.00
11276	SNOW PLOW MOUNT	1,137.50	No	\$0.00
11277	TORPEDO NOZZEL - VACTOR	1,450.52	No	\$0.00
11278	CAMERA ADAPTER/UNIT #561	13,838.86	No	\$0.00
11279	CAMERA ADAPTER/UNIT #561	23,179.92	No	\$0.00
	BASE STATION W/EXTRA RADIO & POWER SUPPLY		No	\$0.00
11280		3,030.65		
11309	P599 DRUM ASSY 402 110V/UNIT #561	18,805.00	No	\$0.00
11310	ENZ BULLDOG NOZZLE	3,200.00	No	\$0.00
11403	2015 Ford F-150 Extended Cab (#586)	31,940.30	No	\$0.00
11404	Light Bar & Mounting Unit # 586	1,156.46	No	\$0.00
11406	Radio, Antenna, Wire Kit Unit # 587	664.90	No	\$0.00
11407	Black Seat Covers #587	280.00	No	\$0.00
11408	Truck Bed Liner #576	375.00	No	\$0.00

11409	Truck Box	236.55	No	\$0.00
11410	Black Seat Covers #589	300.00	No	\$0.00
11411	Hydrolic Pump for Valve Truck	3,510.00	No	\$0.00
11414	Vactor Logos (#588)	107.28	No	\$0.00
11420	Sewer Vactor #588	372,531.00	No	\$0.00
11425	Lightbar Whelen	1,325.00	No	\$0.00
11427	BLACK SEAT COVER	280.00	No	\$0.00
11428	2017 FORD F-150	25,413.95	No	\$0.00
11429	TRUCK DECOR	375.00	No	\$0.00
11430	LIGHT BAR	1,338.00	No	\$0.00
11431	BLACK SEAT COVER	300.00	No	\$0.00
11432	LIGHT BRACKETS	65.14	No	\$0.00
11433	BED LINER	375.00	No	\$0.00
11434	2017 FORD F-150	26,216.62	No	\$0.00
11435	PAN FOR NEW TV TRUCK	650.00	No	\$0.00
11439	Turck (Ford F150 #590)	25,106.39	No	\$0.00
11475	Lightbar Whelen	1,517.16	No	\$0.00
11476	Snow Plow Boss	6,113.10	No	\$0.00
11477	Salter Boss	2,300.00	No	\$0.00
11478	Truck Tool Box Grainger	1,421.26	No	\$0.00
11479	Lightbar Whelen	1,303.00	No	\$0.00
11480	Plow Truck Ford F250 #591	23,819.59	No	\$0.00
11487	Truck (Ford F250 #592)	26,959.28	No	\$0.00
11492	Lateral Camera (Pear Point)	8,297.30	No	\$0.00
11493	Dump Truck (Ford F550 #589) Truck bed	13,600.00	No	\$0.00
11494	TV Truck (Ford E450 #593)	143,126.13	No	\$0.00
11510	Dump Truck (# 589) (Ford 550 6.7 V8 Diesel	39,056.55	No	\$0.00
11511	Truck #589 light bar and risers	1,558.12	No	\$0.00
11512	Truck #588 Flusher nozzle & wireless headsets	7,296.86	No	\$0.00
11553	BLACK SEAT COVER	330.00	No	\$0.00
11554	TRUCK DECOR	375.00	No	\$0.00
11555	2018 FORD F-150	26,235.13	No	\$0.00
11556	FLOOR MATS	85.50	No	\$0.00
11557	ANTENNA FOR NEW TRUCK	77.80	No	\$0.00
11558	LIGHT BAR & MOUNTING	12.98	No	\$0.00
11559	LIGHT BAR & MOUNTING	1,180.98	No	\$0.00
11560	BLACK SEAT COVER	330.00	No	\$0.00
11561	2018 F-150	25,713.01	No	\$0.00
11562	TRUCK ANTENNA CABLE KIT	161.25	No	\$0.00
11563	TRUCK TOOL BOX	287.85	No	\$0.00
11564	BED LINER	375.00	No	\$0.00

11565	LIGHT BAR BOLTS	12.98	No	\$0.00
11566	BED LINER	375.00	No	\$0.00
11567	FORD F-150	25,337.27	No	\$0.00
11568	BLACK SEAT COVER	330.00	No	\$0.00
11569	FLOOR MATS	87.89	No	\$0.00
11570	CAMERA EQUIPMENT	4,734.86	No	\$0.00
11573	Truck #599 - 2019 Ram Pick-Up VIN KS599749	29,405.33	No	\$0.00
11574	Truck #600 - 2019 Ram Pick-Up VIN KS634847	29,911.87	No	\$0.00
11575	Truck #601 - 2019 Ram Pick-Up VIN KS609790	29,911.86	No	\$0.00
11576	Truck #602 - 2019 Ram Pick-Up VIN KS609789	29,286.20	No	\$0.00
11600	2019 Caterpillar / Backhoe Loader	87,350.00	No	\$0.00
11601	2019 Vactor Truck	327,015.57	No	\$0.00
11623	2020 F150 VIN 1FTFX1E48LKE10982	38,005.40	No	\$0.00
11624	2020 F150 VIN 1FTFW1E40LKE10980	43,811.64	No	\$0.00
11625	2020 F150 VIN 1FTFW1E42LKE10981	43,811.64	No	\$0.00
11626	Valve Truck	68,729.14	No	\$0.00
11635	Dump Truck - F550 - 1FDOX5GN6LED78420	39,767.06	No	\$0.00

**Total Trucks
& Big
Equipment -
#1-1740**

2,232,911.26

**Grand Total
Water
Impact Fee
Total
Sewer
Impact Fee
Total**

118,369,472.60

\$80,497,099.65

\$63,740,836.68

\$16,756,262.98

APPENDIX B
ANALYSIS OF CVWRF FOR IMPACT FEE CALCULATIONS



TECHNICAL MEMORANDUM

TO: Brandon Heidelberger P.E., CVWRF
Justin Zollinger, CPA, CVWRF

COPIES: File

FROM: Keith Larson, P.E. & Andee Harris, E.I.T.

DATE: 20 October 2020 **DRAFT**

SUBJECT: Analysis of CVWRF for Impact Fee Calculations

JOB NO.: 107-20-01

CENTRAL VALLEY WATER RECLAMATION FACILITY

INTRODUCTION

Central Valley Water Reclamation Facility (CVWRF) (Facility) currently has a contractual agreement with 7 entities which are: Cottonwood Improvement District (CID), Granger-Hunter Improvement District (GHID), Kearns Improvement District (KID), Mt. Olympus Improvement District (MOID), Murray City, South Salt Lake City, and Taylorsville-Bennion Improvement District (TBID). While the CVWRF does not charge its own impact fee, all of its member agencies do charge impact fees for the portion of capacity they own at the Facility. The purpose of this memorandum is to document information regarding CVWRF that is common to the member agencies for the purpose of allowing any individual member agency to prepare an impact fee facilities plan and/or perform an impact fee analysis.

CVWRF GROWTH AND CAPACITY

As detailed in the State of Utah's Impact Fee Act, an impact fee is generally calculated by identifying the available existing and future capacity in a facility and then dividing the value of that capacity by the amount of new growth that will benefit from the unused capacity. The purpose of this section is to identify both projected growth and available capacity at the Facility.

Projected Growth

CVWRF's average annual flows have slightly increased over the past few years, and are expected to continue increasing as its member agencies experience more growth. Recent flow data shows that CVWRF's peak month average day flow was as high as 65.66 million gallons per day (mgd) in April of 2019. Using this value and assuming a slight increase due to recent growth since 2019, the current maximum month flow (MMF) for the plant has been estimated as 66 mgd. To project future flows, CVWRF recently completed a Facility Plan which examines expected growth in its member agencies. Projected growth identified in the facility plan identifies a future maximum month flow rate of 83.9 mgd, expected to around the year 2045. If it is assumed that growth will be roughly linear for this period, flows for the years of interest to this memorandum can be projected as summarized in Table

1. These projected flows are used as the basis for wasteload allocations associated with CVWRF's planned expansion.

Table 1: Existing and Projected CVWRF Capacity

Year	MMF (mgd)
2020	66
2030	73.2
2045	83.9

Available Capacity

It is reported in the Facility Plan that CVWRF currently has a permitted process flow capacity of 75 mgd. As shown in Table 1, flows are projected to surpass the current capacity before the end of the 25-year design horizon. Thus, the Facility has multiple expansion and rehabilitation projects planned to expand its MMF capacity to roughly 84 mgd by the year 2045.

To fairly calculate an impact fee, it is necessary to determine the percentage of the both existing facilities and future improvements that will service future users. However, this is a very difficult task in the case of CVWRF because the vast majority of the future projects proposed at the plant have multiple purposes. These project include components that expand capacity, improve level of service (e.g. improve nutrient removal capabilities), and rehabilitate aging existing infrastructure. As a result, it is extremely difficult to break costs for any single project into that portion serving existing users vs. that portion serving growth.

To avoid conflict and potential legal challenges over how a particular project was allocated, this memorandum recommends a simpler approach. Instead of trying to evaluate each individual project, it is recommended the existing facility and its proposed improvements be considered one comprehensive project to achieve a final level of service. If this approach is taken, the percent use of capacity can be simply calculated for both existing and future facilities as the percent of flow based the Facility's planned MMF expansion value of 84 mgd. The calculated percentage allocations based on this approach are shown below in Table 2.

Table 2: Percent Use of Total Design Capacity

	Existing	10 yr	Beyond 10 yr
CVWRF Assets	78.6%	8.6%	12.9%

Admittedly, this is an under representation of the true costs of serving future growth. There is most assuredly some portion of capacity for existing users that can be satisfied less expensively in the existing plant facilities than it will cost to add capacity for new users. However, using the cost allocation approach recommended here will remove any claim future development may have that cost allocation at the Facility is inequitable.

EXISTING SYSTEM COST

In order to calculate an impact fee, it is necessary to document the existing Facility's actual cost in accordance with Utah Code. Actual costs of existing facilities that will serve new development may be incorporated into the impact fee (at the proportion used to service the growth).

A complete list of CVWRF's Capital Assets was used to carefully identify which projects are and are not eligible for the impact fee (for a detailed table, refer to Appendix B-1). Facilities that cannot be included in the calculation of the fee include:

- Facilities without excess capacity available to service future growth
- Facilities with a lifespan of less than ten years (e.g. maintenance, IT, and vehicles)
- Facilities that have been/will be replaced by future projects in the 10-year planning window
- Facilities not specifically used for providing wastewater treatment services (e.g. golf course improvements).

Any facilities falling into the categories above have been removed from calculation of the impact fee. The total documented system value is shown in Table 2 along with the remaining total system value after removing non-eligible facilities.

Table 3: Existing CVWRF Value

Description	Value
Total Documented Value of CVWRF's Existing System	\$326,072,303
Total Value of Non-Eligible Facilities and Facilities that have been/will be Replaced	\$120,725,284
Remaining Impact Fee Eligible Total	\$205,347,019

FUTURE SYSTEM IMPROVEMENTS

The cost of the Facility's future system improvements must also be determined in order to calculate an impact fee. The cost of CVWRF's future impact fee eligible improvements was calculated using the CVWRF Capital Improvement Plan (CIP) Summary which includes projects from the year 2020 to 2037 (for a detailed table, refer to Appendix B-2). In order for a project to classify as eligible, the following requirements were applied:

- The project is required to maintain (but not exceed) the proposed level of service in the system.
- The project is expected to be built within ten years.
- The project is for a facility meeting the requirements of the Impact Fee Act as described above. In the case of CVWRF, this meant excluding projects associated with the categories of "Rolling Stock", "IT Projects", "Lab Projects", or "Maintenance Projects" in CVWRF's CIP Summary, along with a few other projects in other categories.

The total, excluded, and qualifying cost of future projects at the Facility are summarized in Table 3.

Table 4: Future CVWRF Cost

Description	Cost
Total Cost of All Projects	\$428,376,117
Total Cost of Non-Eligible Projects	\$38,846,575
Remaining Impact Fee Eligible Total	\$389,529,541

BONDING AND INTEREST

CVWRF has bonded for financing over the years and plans to continue bonding for their upcoming projects. The Facility's four existing bonds are shown in Table 4 along with the total principle and interest costs (for a detailed payment schedule see Appendix B-3).

Table 5: CVWRF Existing Bonds

Bond	Principle	Interest	Total
2017A Sewer Revenue Bonds	\$28,600,000	\$15,400,754	\$44,000,754
2017B Sewer Revenue Bonds	\$3,445,000	\$394,136	\$3,839,136
2019A Sewer Revenue Bonds	\$35,390,000	\$18,955,618	\$54,077,275
2020A State SRF Loan	\$65,100,000	\$12,387,451	\$77,487,451
Total	\$132,535,000	\$47,137,960	\$179,404,616

Member agencies are not required to participate in each bond. Therefore, a specific bond may or may not apply when calculating interest costs for an impact fee. This is also applicable when incorporating future bonds. CVWRF is currently planning to bond three times over the next 10 years. The amount and timing of each bond are as follows:

1. An \$85 million bond in 2021
2. A \$60 million bond in 2022
3. A \$50 million bond in 2023

The terms of these bonds have not been finalized. However, the Facility is currently pursuing low cost loans from sources that could be as low as one percent. Until final terms are reached, it is recommended that the interest rate for these loans be conservatively assumed (from an impact fee perspective) at 1.0 percent over a period of 20 years.

IMPACT FEE IMPLICATIONS

Typically impact fee calculations are defined in terms of equivalent residential units (ERUs). However, since CVWRF provides service to multiple member agencies, each individual agency could have a varying definition of an ERU. Consequently, impact fee eligible costs in this memo will be defined in terms of gallons per day (gpd), instead of ERUs. This will then allow each individual agency to calculate their applicable cost based on their own definition of an ERU and their own expected future growth.

Percentage and price allocations for CVWRF's existing assets and future improvements are shown in Table 4 along with the calculated impact fee eligible costs defined in terms of cost/gpd.

Table 6: CVWRF Percentage and Price Allocations

	Cost	Existing	10 yr	Beyond 10 yr	Existing	10 yr	Beyond 10 yr	10 yr Growth (gpd)	\$/gpd
CVWRF Existing Assets	\$205,347,019	78.6%	8.6%	12.9%	\$161,344,087	\$17,601,173	\$26,401,760	7,200,000	\$2.44
CVWRF Future Projects	\$389,529,541	78.6%	8.6%	12.9%	\$306,058,925	\$33,388,246	\$50,082,370	7,200,000	\$4.64
Total	\$594,876,560				\$467,403,012	\$50,989,419	\$76,484,129		\$7.08

In addition to these capital costs, the member agencies may also incur interest costs associated with historical and future expected bonding. Because participation in bonding is unique for each agency, these costs will need to be calculated separately as part of individual impact fees. The same is true for the calculation of user fee credits for ongoing debt where appropriate.

While the amount of debt service to be paid by each entity can be calculated directly by looking at the payment schedule for each bond, the portion of this debt service applicable to each category is less straightforward. If all the costs at the Facility were being covered through bonding, the percentage for debt service would simply match the percentage for the Facility as a whole. However, this is not the case. In addition to bonding revenue, each entity is also contributing some portion of cash to fund the improvements. Any contributions made separate from the bonds need to be credited against existing users debt service obligation. Since each entity can make a separate decision on whether they want to pay cash or participating in each bond, the cost allocation will vary based on bond participation. To simplify impact fee calculations for each entity, Table 7 shows the percentage allocation of debt service for each individual entity based on current expected participation in the bonds. (For a complete payment schedule of existing bonds refer to Appendix B-3).

Table 7: CVWRF Member Agency Debt Service Percentage Allocations

Member Agency	2017A Sewer Revenue Bonds	2017B Sewer Revenue Bonds	2019A Sewer Revenue Bonds	2020A State SRF Loan	2021 Bond	2022 Bond	2023 Bond	% to Existing	% to 10 yr	% to Beyond 10 yr
CID	x	x	x	x	x	x	x	74.52%	10.19%	15.29%
GHID	x	x	x	x	x	x	x	74.52%	10.19%	15.29%
KID	x	x	x	x	x	x	x	74.52%	10.19%	15.29%
Mt. Olympus				x	x	x	x	67.91%	12.84%	19.26%
Murray	x	x	x	x	x	x	x	74.52%	10.19%	15.29%
South Salt Lake	x	x	x	x				57.19%	17.12%	25.68%
TBID				x	x	x	x	67.91%	12.84%	19.26%

Appendix B-1
CVWRF Capital Assets

Table B-1.1: CVWRF Capital Assets

Description	Original Cost	Impact Fee Eligible	Impact Fee Portion
SLCSSD #1 Land/facility land	\$3,876,860	Yes	\$3,876,860
Richards - Moench Land	\$1,800,000	Yes	\$1,800,000
Rss Building 1 (East)	\$965,968	Yes	\$965,968
SECONDARY CLARIFIER #01 Arm	\$110,134	Yes	\$110,134
Preliminary and Final Site Work	\$1,222,226	No	0
Aeration Basin 4 (Solids Contact)	\$500,000	No	0
Digester 4	\$1,381,615	Yes	\$1,381,615
Trickling Filter 1	\$1,660,950	no	0
SECONDARY CLARIFIER #04 Drive	\$40,000	No	0
Fire Management System	\$436,283	No	0
SECONDARY CLARIFIER #01	\$1,190,113	Yes	\$1,190,113
Trickling Filter 3	\$2,002,542	No	0
Filtrate East	\$175,000	Yes	\$175,000
Lawns, Sprinklers and other improvements	\$1,963,353	No	0
Aeration Basin 3 (Solids Contact)	\$500,000	No	0
Storm Pipes	\$265,050	Yes	\$265,050
PRIMARY CLARIFIER #6 Arm	\$556,068	Yes	\$556,068
Digester 5	\$1,869,023	Yes	\$1,869,023
PRIMARY CLARIFIER #4	\$1,189,662	Yes	\$1,189,662
Maint. Building	\$5,239,407	No	0
PRIMARY CLARIFIER #3	\$1,189,662	Yes	\$1,189,662
Construction of 900 West Curb and Gutter Improvements	\$99,982	No	0
SECONDARY CLARIFIER #05 Arm	\$110,134	Yes	\$110,134
PRIMARY CLARIFIER #2	\$1,189,662	Yes	\$1,189,662
Engineering	\$3,992,589	No	0
Digester 3	\$1,381,615	Yes	\$1,381,615
Construction of 12-inch Water Line	\$41,767	No	0
SECONDARY CLARIFIER #01 Drive	\$40,000	No	0
Land Improvements	\$5,007,502	No	0
Pump Station (For Trickling Filters 1-3)	\$1,818,750	No	0
Digester Control Building (1-4)	\$1,381,615	No	0
SECONDARY CLARIFIER #02 Arm	\$110,134	Yes	\$110,134
Supply and Installation of Railroad Spur	\$153,536	No	0
PRIMARY CLARIFIER #6	\$1,189,662	Yes	\$1,189,662
Digester 1	\$1,381,615	Yes	\$1,381,615
PRIMARY CLARIFIER #2 Arm	\$556,068	Yes	\$556,068
Chlorine Contact Tank Aeration Blower	\$49,266	No	0
RSS PUMP #05	\$60,000	No	0

Aeration Basin 2 (Solids Contact)	\$500,000	No	0
RSS PUMP #07	\$60,000	No	0
Gravity Belt Thickener Building	\$1,823,174	No	0
3W Building	\$200,000	No	0
Dewatering Building	\$7,540,049	No	0
Pc 1B	\$1,868,817	No	0
"Electrical equipment"	\$3,950,530	No	0
Truck Barn	\$164,902	No	0
SECONDARY CLARIFIER #06	\$1,190,113	Yes	\$1,190,113
Road	\$56,355	Yes	\$56,355
Digester 2	\$1,381,615	Yes	\$1,381,615
Fencing	\$37,339	Yes	\$37,339
Digester Control Building (5-7)	\$1,869,023	No	0
SECONDARY CLARIFIER #07 Arm	\$110,134	Yes	\$110,134
Power Gen Building	\$9,580,522	No	0
Roughing Filters, Recirculation Pumps	\$2,136,266	No	0
PRIMARY CLARIFIER #1	\$1,189,662	Yes	\$1,189,662
Utility Hookups	\$53,653	Yes	\$53,653
SECONDARY CLARIFIER #05	\$1,190,113	Yes	\$1,190,113
RSS PUMP #06	\$60,000	No	0
SECONDARY CLARIFIER #06 Arm	\$110,134	Yes	\$110,134
SECONDARY CLARIFIER #03	\$1,190,113	Yes	\$1,190,113
Process Control and Instrumentation System	\$3,819,245	No	0
PRIMARY CLARIFIER #4 Arm	\$556,068	Yes	\$556,068
SECONDARY CLARIFIER #03 Arm	\$110,134	Yes	\$110,134
Trickling Filter 2	\$2,002,542	No	0
SECONDARY CLARIFIER #02 Drive	\$40,000	No	0
SECONDARY CLARIFIER #04	\$1,190,113	Yes	\$1,190,113
Filtrate West	\$175,000	Yes	\$175,000
SECONDARY CLARIFIER #08	\$1,190,113	Yes	\$1,190,113
PRIMARY CLARIFIER #1 Arm	\$556,068	Yes	\$556,068
RSS PUMP #04	\$60,000	No	0
West Entrance Road	\$363,882	No	0
PRIMARY CLARIFIER #3 Arm	\$556,068	Yes	\$556,068
SECONDARY CLARIFIER #07	\$1,190,113	Yes	\$1,190,113
Headworks Building	\$12,085,136	No	0
Landscaping/Irrigation	\$804,012	No	0
SECONDARY CLARIFIER #04 Arm	\$110,134	Yes	\$110,134
Admin Building	\$5,162,675	No	0
Aeration Basin 1 (Solids Contact)	\$500,000	No	0
PRIMARY CLARIFIER #5	\$1,189,662	Yes	\$1,189,662

SECONDARY CLARIFIER #02	\$1,190,113	Yes	\$1,190,113
SECONDARY CLARIFIER #06 Drive	\$40,000	No	0
PRIMARY CLARIFIER #5 Arm	\$556,068	Yes	\$556,068
RSS PUMP #08	\$60,000	No	0
RSS PUMP #01	\$60,000	No	0
Ricoh Aficio Mp 6001 Copier (Zues)	\$14,994	No	0
South Salt Lake Interceptor	\$2,303,166	Yes	\$2,303,166
AIR HANDLER UNIT - AHU05101 (F5151)	\$65,000	No	0
Ultrasonic Nebulizer	\$8,750	No	0
Granger-Hunter Interceptor	\$1,910,615	Yes	\$1,910,615
Murray/Cottonwood Interceptor	\$7,249,005	Yes	\$7,249,005
1988 Load King TRAILER LOWBOY	\$31,965	No	0
Won-Door Corp Land	\$116,559	Yes	\$116,559
Cromar Land	\$228,500	Yes	\$228,500
Berrett Land	\$60,604	Yes	\$60,604
Paulsen Land	\$204,000	Yes	\$204,000
Vitro Ditch	\$195,638	No	0
Grit Tank	\$65,293	No	0
Maintanance Storage (Boneyard Building)	\$98,999	No	0
BELT FILTER PRESS #4	\$350,000	No	0
BELT FILTER PRESS #5	\$350,000	No	0
Incubator	\$11,924	No	0
BELT FILTER PRESS #6	\$350,000	No	0
CHILLER - CENTRIFUGAL	\$300,000	No	0
1994 One Jet FLUSHER TRAILER	\$31,000	No	0
1972 Fruehauf TANKER	\$11,000	No	0
Sampler	\$7,401	No	0
Snowblower	\$7,999	No	0
CAD	\$7,268	No	0
Deere Disc	\$8,623	No	0
1995 International TRUCK BOOM	\$30,623	No	0
Sludge Bins	\$1,659,090	No	0
Post Areation	\$1,301,044	No	0
Jail Line	\$443,720	Yes	\$443,720
East Concrete Pad	\$538,745	Yes	\$538,745
Pump Station (For Trickling Filters 5-7)	\$1,500,000	no	0
Expansion Equip	\$6,967,016	No	0
Aeration Basin 6 (Solids Contact)	\$500,000	Yes	\$500,000
PRIMARY CLARIFIER #7 Arm	\$1,701,754	Yes	\$1,701,754
PRIMARY CLARIFIER #7	\$1,000,000	Yes	\$1,000,000
Muffin Monster	\$9,927	No	0

Trickling Filter 6	\$1,500,000	No	0
Expansion	\$13,372,806	Yes	\$13,372,806
Trickling Filter 5	\$1,500,000	No	0
Aeration Basin 5 (Solids Contact)	\$500,000	Yes	\$500,000
Trickling Filter 7	\$1,500,000	No	0
PRIMARY CLARIFIER #7 Drive	\$40,000	Yes	\$40,000
PRIMARY CLARIFIER #8	\$1,000,000	Yes	\$1,000,000
PRIMARY CLARIFIER #8 Arm	\$1,701,754	Yes	\$1,701,754
PRIMARY CLARIFIER #8 Drive	\$40,000	Yes	\$40,000
PRIMARY CLARIFIER #9	\$1,000,000	Yes	\$1,000,000
PRIMARY CLARIFIER #9 Arm	\$1,701,754	Yes	\$1,701,754
PRIMARY CLARIFIER #9 Drive	\$40,000	Yes	\$40,000
PRIMARY CLARIFIER #10	\$1,000,000	Yes	\$1,000,000
PRIMARY CLARIFIER #10 Arm	\$1,701,754	Yes	\$1,701,754
PRIMARY CLARIFIER #10 Drive	\$40,000	Yes	\$40,000
New Security Gates & Camera	\$230,133	No	0
1999 International DUMP TRUCK	\$99,925	No	0
LOADER - JOHN DEERE 624H	\$104,904	No	0
Digester 7	\$6,792,378	Yes	\$6,792,378
Land Improvements	\$3,008,336	No	0
Digester 6	\$6,792,378	Yes	\$6,792,378
Sand Filter	\$1,650,860	No	0
Egg Digester Equipment Building	\$1,509,417	Yes	\$1,509,417
2001 GMC SERVICE TRUCK (FAT ALICE)	\$58,028	No	0
Grit Container	\$15,075	No	0
Fence	\$153,580	No	0
Golf Building	\$497,471	No	0
Lab Autoclave	\$6,198	No	0
Lab Distillation	\$10,350	No	0
2002 J&J TRAILER	\$62,910	No	0
Tay-Ben Line Re-Route	\$359,845	Yes	\$359,845
Cedar Valley Property - Blaine McKinney	\$3,525,764	Yes	\$3,525,764
Cedar Valley Property - Marvin Carson	\$335,610	Yes	\$335,610
ENGINE GENERATOR #05 - AT	\$869,153	No	0
SECONDARY CLARIFIER #08 Drive	\$40,000	Yes	\$40,000
GENIE SCISSOR LIFT	\$13,642	No	0
SECONDARY CLARIFIER #09 Drive	\$40,000	Yes	\$40,000
DUMBWAITER	\$155,506	No	0
SECONDARY CLARIFIER #10 Drive	\$40,000	Yes	\$40,000
SECONDARY CLARIFIER #10	\$2,954,118	Yes	\$2,954,118
SECONDARY CLARIFIER #08 Arm	\$110,134	Yes	\$110,134

ELEVATOR	\$155,506	No	0
ENGINE GENERATOR #03 - AT	\$755,113	No	0
ENGINE GENERATOR #04 - AT	\$879,230	No	0
SECONDARY CLARIFIER #09 Arm	\$954,600	Yes	\$954,600
SECONDARY CLARIFIER #09	\$2,954,118	Yes	\$2,954,118
SECONDARY CLARIFIER #10 Arm	\$954,600	Yes	\$954,600
Lab-Discrte Analyzer	\$50,363	No	0
COMPOST COVER PLACEMENT MACHINE CPM1	\$154,000	No	0
Compost Covers (13)	\$60,000	No	0
Compost Covers (9)	\$60,000	No	0
Compost Covers (6)	\$60,000	No	0
Compost Covers (2)	\$60,000	No	0
Compost Covers (5)	\$60,000	No	0
Compost Covers (7)	\$60,000	No	0
Compost Covers (14)	\$60,000	No	0
Secondary Cat Engine	\$164,026	No	0
Compost Covers (11)	\$60,000	No	0
AIR HANDLER UNIT - AHU05104	\$145,184	No	0
2005 CASE BACKHOE 580 SUPUVM	\$235,000	No	0
JLG AERIAL LIFT PLATFORM Model 600A	\$54,000	No	0
Equipment Barn	\$160,882	Yes	\$160,882
Flask scrubber	\$6,000	No	0
Compost Covers (10)	\$60,000	No	0
Compost Covers (1)	\$60,000	No	0
Compost Covers (4)	\$60,000	No	0
Compost Covers (3)	\$60,000	No	0
Compost Covers (12)	\$60,000	No	0
Compost Covers (8)	\$60,000	No	0
AIR HANDLER UNIT - ACU05152	\$32,000	No	0
Rss Building 2 (West)	\$800,000	No	0
CHILLER - MULTI-STAGE	\$236,306	Yes	\$236,306
Siloxane System	\$242,163	No	0
Polymer Feed	\$66,419	No	0
KOMATSU LOADER Model WA500	\$200,000	No	0
Network Cable	\$92,505	No	0
2008 Peterbilt Tractor	\$0	No	0
Scarab Barn	\$150,000	Yes	\$150,000
PETERSON WOODCHIP GRINDER Model 4710B	\$507,609	No	0
Camera/Dvr system	\$66,160	No	0
GEHL SKIDSTEER MODEL 5240	\$25,076	No	0
TOYOTA ELECTRIC FORKLIFT MODEL ZFBCU30	\$32,000	No	0

GEHL SKIDSTEER #2 MODEL 5240	\$25,552	No	0
Sand Filter (UV)	\$114,800	Yes	\$114,800
2011 Peterbilt TRACTOR ROTOMIX	\$117,000	No	0
Rdndnt Modbus Network	\$93,553	No	0
Fence	\$121,427	Yes	\$121,427
MCCLOSKEY INTERNATIONAL TROMMEL MODEL 621RE	\$254,750	No	0
UV Structure	\$4,064,838	Yes	\$4,064,838
2010 Williamsen TRAILER PUP	\$42,807	No	0
2011 Ford F-150 PICKUP	\$25,312	No	0
ROTOCHOPPER MODEL GO-BAGGER 250 (COMPOST BAG MACHINE)	\$46,886	No	0
RYLIND ROLL-OUT BUCKET ONLY (KOMATSU LOADER MODEL WA500 BUCKET ATTACHMENT)	\$33,321	No	0
2011 Rotomix machine on Peterbilt Tractor	\$118,366	No	0
Dry Polymer Injection System	\$71,374	Yes	\$71,374
Tink - Roll Out Bucket	\$26,306	No	0
Snow plow and spreader	\$6,300	No	0
UV Equipment	\$2,196,533	Yes	\$2,196,533
SCARAB COMPOST TURNER MODEL 27X11	\$464,750	No	0
TARP WINDER	\$32,000	No	0
Compost Monitoring Equipment	\$41,116	No	0
Solids Contact Basin upgrades	\$157,600	Yes	\$157,600
PICKUP WAREHOUSE - 205688EX	\$26,631	No	0
New Cameras throughout plant	\$46,796	No	0
Int Rehab Granger Hunter	\$444,100	Yes	\$444,100
Modicon/Unity	\$95,432	No	0
Road - Compost Site	\$110,089	Yes	\$110,089
Storage Bldg	\$272,145	No	0
Tarp System	\$33,964	Yes	\$33,964
New Compost Camera System	\$27,602	No	0
Tarp system	\$33,964	No	0
2012 Toyota Tacoma	\$28,845	No	0
Millcreek Stabilization	\$77,290	Yes	\$77,290
2010 Peterbilt Tractor/Flatbed	\$0	No	0
LANDA PRESSURE WASHER - W/ TRAILER MODEL ST20	\$10,404	No	0
ICP & HG Analyzer	\$137,438	No	0
Digester Gas Dryer	\$104,783	Yes	\$104,783
Tarp Rack	\$30,623	Yes	\$30,623
Interceptor To Twin- Granger Hunter	\$1,348,887	Yes	\$1,348,887
GRAVITY BELT THICKENER #3	\$96,526	Yes	\$96,526
2014 Peterbilt TRACTOR	\$119,656	No	0
GRAVITY BELT THICKENER #2	\$96,526	Yes	\$96,526

Fire monitoring computer system	\$16,331	No	0
Service Air Dryer	\$30,747	Yes	\$30,747
GRAVITY BELT THICKENER #1	\$96,526	Yes	\$96,526
Backup UV Sand Filter	\$111,470	Yes	\$111,470
RSS East HVAC unit	\$14,900	Yes	\$14,900
Ion Chromatograph	\$69,098	Yes	\$69,098
AIR HANDLER UNIT - ACU05106	\$45,250	No	0
Capacitor protection system	\$50,027	No	0
Aeration Ponds	\$19,364	No	0
Video Management System	\$19,200	No	0
RSS East HVAC Unit Upgrades	\$27,680	No	0
2014 Toyota Tacoma	\$29,765	No	0
2014 Great Dane Box Trailer (40')	\$9,369	No	0
Interceptor South Of 3300 South	\$1,424,015	Yes	\$1,424,015
2016 DODGE RAM 2500 4X4	\$38,905	No	0
Replace GHID Siphon	\$1,657,565	Yes	\$1,657,565
Oil heater for barn	\$13,690	No	0
2016 GMC PICKUP	\$38,495	No	0
MMG Compressor	\$18,418	Yes	\$18,418
Compressed Air System	\$51,950	No	0
2016 International TRACTOR	\$116,692	No	0
2016 International TRACTOR	\$110,472	No	0
PI Tags	\$47,512	No	0
PI Archive - Coresight System	\$14,140	No	0
Vulcan Housing	\$14,330	No	0
Rotomix conveyor add-on	\$67,080	No	0
Server	\$19,476	No	0
Vehicle Gate Access-south gate	\$10,308	No	0
Sound system for board room	\$21,412	No	0
Roll Out Bucket for LOADER18 (John Deere)	\$27,855	No	0
Toyota electric Forklift model 8Fbcu32	\$37,069	No	0
2016 Spec Tec Trailer	\$83,600	No	0
2016 Spec Tec Trailer	\$87,250	No	0
2016 Cogen Construction	\$800,759	Yes	\$800,759
2016 Spec Tec Trailer	\$82,049	No	0
Secondary Clarifier Drive Rebuild #5	\$42,400	Yes	\$42,400
PRIMARY CLARIFIER #5 Drive - Complete Rebuild	\$42,535	Yes	\$42,535
Gas Chromatograph	\$132,575	Yes	\$132,575
GHID Siphon Structure And Meter Sulfide	\$238,756	Yes	\$238,756
Flow Stations New Radio Frequency Dial	\$84,046	No	0
2017 Toyota Tacoma	\$34,254	No	0

Refrigerated Centrifuge	\$10,137	Yes	\$10,137
2017 Toyota Tacoma	\$33,071	No	0
PRIMARY CLARIFIER #2 Drive - Complete Rebuild	\$41,673	Yes	\$41,673
PRIMARY CLARIFIER #1 Drive - Complete Rebuild	\$41,673	Yes	\$41,673
Secondary Clarifier Drive Rebuild #3	\$42,400	Yes	\$42,400
Cogen Replacement	\$607,025	Yes	\$607,025
Admin Building Access Control	\$51,528	No	0
RSS PUMP #02	\$59,330	Yes	\$59,330
Cyber Security Upgrades	\$62,962	No	0
VERMEER VACUUM TRAILER MODEL VX50-500	\$70,796	No	0
Wireless Network Upgrade	\$20,339	No	0
Backup Servers	\$15,670	No	0
2017 Cogen Construction	\$5,438,213	Yes	\$5,438,213
Secondary Clarifier Drive #6 Rebuild	\$44,285	No	0
2017 Odor Control Design	\$63,748	Yes	\$63,748
2017 Engine Replacement	\$181,261	Yes	\$181,261
2017 Nutrient Removal	\$1,061,987	Yes	\$1,061,987
2017 Digester Gas Piping System	\$185,372	Yes	\$185,372
2017 Secondary Clarifiers 11 & 12	\$165,676	Yes	\$165,676
Master Control Conduit Bucket	\$41,937	Yes	\$41,937
PRIMARY CLARIFIER #4 Drive - Complete Rebuild	\$41,310	Yes	\$41,310
PRIMARY CLARIFIER #3 Drive - Complete Rebuild	\$53,215	Yes	\$53,215
Secondary Clarifier Drive Rebuild #7	\$42,400	Yes	\$42,400
Cottonwood/Murray Slip Lining Project	\$5,406	Yes	\$5,406
Cottonwood/Murray Slip Lining Project	\$1,807,339	Yes	\$1,807,339
JOHN DEERE WHEEL LOADER MODEL 844K-III	\$440,000	No	0
AIR HANDLER UNIT - ACU05150	\$52,508	No	0
Spitfire Dying Machine	\$16,150	No	0
West Gate and Camera system	\$10,303	No	0
SST Cabinet - Headworks	\$28,000	Yes	\$28,000
2018 Chevrolet 2500 HD 4x4 truck	\$37,112	No	0
Absorption Chiller	\$35,760	Yes	\$35,760
Absorption Chiller	\$35,760	Yes	\$35,760
Absorption Chiller	\$35,760	Yes	\$35,760
Network switches upgrade	\$107,588	No	0
ifix keys	\$14,268	No	0
GBT Cameras	\$43,483	No	0
Voice over IP system (VOIP)	\$53,868	No	0
Alteryx - new data analytics software	\$5,195	No	0
Orion weather system	\$7,536	No	0
Wireless network upgrade	\$33,384	No	0

Fuel Tanks	\$189,282	Yes	\$189,282
LIMS System (5 years)	\$71,642	No	0
PRIMARY CLARIFIER #6 Drive - Complete Rebuild	\$48,641	No	0
Nexgen Software	\$359,037	No	0
Handrails 0-11/30/2017	\$24,316	No	0
UPS System - UV	\$33,730	No	0
Compost PLC	\$13,857	No	0
Nexgen Software	\$106,902	No	0
UPS System - RSS West	\$33,730	No	0
UPS System - GBT	\$33,730	No	0
2013 Grove RT-540E Crane	\$274,100	No	0
2018 UV Structure Add-on	\$7,500	Yes	\$7,500
2018 Headworks Automatic Transfer Switch	\$87,547	Yes	\$87,547
Fuel Tanks, Stairs, & Grating	\$24,891	No	0
2017 UV Structure add-on	\$53,410	Yes	\$53,410
XLIMS Lab Software	\$7,534	No	0
Plant Security Cameras and System	\$48,923	No	0
Rotocut Chopper 1	\$19,125	No	0
2018 Toyota Tacoma SR5	\$30,831	No	0
Rotocut Chopper 2	\$19,125	No	0
Rotocut chopper 2	\$49,463	No	0
Rotocut Chopper 1	\$49,463	No	0
2018 Dodge Ram 2500	\$38,102	No	0
2018 JLG Telehandler Model 1055	\$148,780	No	0
Plant Process Control Network	\$157,041	No	0
2018 Backup Server	\$7,899	No	0
2018 Cogen Automatic Transfer Switch	\$364,660	Yes	\$364,660
2018 Backup Server	\$7,899	No	0
2018 Dual Core Heat Exchangers	\$119,628	Yes	\$119,628
2018 MCC Buckets (Power Gen Building)	\$30,536	Yes	\$30,536
AQ400 Discrete Analyzer	\$56,485	No	0
2018 Spector 38ft Push Trailer	\$86,751	No	0
2019 International Tractor	\$136,907	No	0
2018 Headworks Generators	\$9,022	Yes	\$9,022
2018 Biogas H2S Removal System	\$396,679	Yes	\$396,679
2018 Biogas Siloxane Removal System	\$537,464	Yes	\$537,464
2018 Chillers Air-Glycol	\$115,670	Yes	\$115,670
2018 Cogen Construction	\$2,577,056	Yes	\$2,577,056
2018 Odor Control Construction	\$759,504	Yes	\$759,504
2018 Nutrient Removal	\$3,937,549	Yes	\$3,937,549
2018 Secondary Clarifier 11 & 12	\$5,579,015	Yes	\$5,579,015

2018 3W Pump & Cooling Station	\$403,848	Yes	\$403,848
2018 Digester Gas Piping System	\$1,362,740	Yes	\$1,362,740
2018 Digester Mixing Systems #1, 2, 4	\$21,660	Yes	\$21,660
2018 Septage Receiving Software	\$49,748	No	0
2018 Primary & Secondary Clarifiers Launderers & Weirs #1 & #7	\$138,606	Yes	\$138,606
2018 Engine Replacement	\$2,344,860	Yes	\$2,344,860
2018 UV #2 Pass Equipment	\$51,678	No	0
New Tunnel Doors	\$10,979	No	0
Tyler Incode Software	\$153,997	No	0
Power Gen ATS	\$67,959	Yes	\$67,959
Power Gen Breaker Feeders	\$118,821	Yes	\$118,821
2018 CHEVROLET SILVERADO 2500	\$38,235	No	0
2018 International Roll-off Truck	\$167,601	No	0
2019 Flo-Dar Equipment	\$14,114	No	0
2019 Gas Flare System	\$25,301	Yes	\$25,301
2019 IFIX Primary Server	\$10,914	No	0
2019 IFIX Secondary Server	\$10,914	No	0
2019 Unity Server	\$10,914	No	0
2019 Becker Server Primary	\$5,338	No	0
2019 Becker Server Primary	\$5,338	No	0
2019 Genie Runabout lift	\$13,003	No	0
2019 Mini Excavator E35 ZTS	\$50,161	No	0
2019 International Dump Truck	\$181,695	No	0
2019 Toyota Tacoma	\$31,600	No	0
2019 Video Server	\$6,337	No	0
2019 Video Server	\$6,337	No	0
2019 Video Server	\$6,337	No	0
2019 Genetec Video Platform & Access Control Badges	\$38,889	No	0
2019 Roll-off Bin	\$8,950	No	0
2019 Hyster Forklift	\$50,315	No	0
2019 Genetec Video Access Platform	\$35,119	No	0
2019 Modicon OPC Server Software	\$10,469	No	0
Absorption Chiller	\$175,644	Yes	\$175,644
2019 Def Fueling Station	\$33,428	Yes	\$33,428
2020 PJ Dump Trailer	\$10,445	No	0
2019 PJ Dump Trailer	\$10,445	No	0
2019 Dry Polymer Feed System & Control System	\$6,020	No	0
2019 Secondary Clarifier Motor #8 (Rebuild)	\$44,620	Yes	\$44,620
2019 Cisco Video Network	\$143,424	No	0
2019 Steam Scrubber Dishwasher	\$9,647	No	0
2019 M580 PLC UV	\$51,387	Yes	\$51,387

2019 Primary Clarifier #3 Launderers	\$113,247	Yes	\$113,247
2019 Maintenance Metal Building Expansion	\$238,984	No	0
2019 On Point Server	\$14,886	No	0
2019 Secondary Clarifier #2 Launderers	\$124,182	Yes	\$124,182
2007 Madvac Street Sweeper	\$24,896	No	0
2019 Power Gen Elevator Rebuild	\$91,160	Yes	\$91,160
2019 Process Lore Server	\$13,525	No	0
2019 Corporate Lore Server	\$13,525	No	0
2019 South Interconnection	\$863,561	Yes	\$863,561
Murray/Cottonwood Slip Lining	\$2,894,204	Yes	\$2,894,204
2013 John Deere 624K Loader	\$157,484	No	0
2019 Headworks HVAC Replacement & Design	\$96,988	Yes	\$96,988
2019 Maintenance Building HVAC Replacments	\$14,400	No	0
2019 Mitsubishi 1100 UPS	\$32,460	No	0
2019 Misubishi 1100 UPS	\$32,460	No	0
2019 Tunnel HVAC Replacement	\$22,750	Yes	\$22,750
2019 Food Waste Receiving Station	\$243,807	Yes	\$243,807
2019 Headworks Backup Generator	\$644,518	Yes	\$644,518
2019 Chillers Air-Glycol	\$74,812	Yes	\$74,812
2019 Nutrient Removal	\$8,043,201	Yes	\$8,043,201
2019 Biogas H2S Removal System	\$112,216	Yes	\$112,216
2019 Power Gen Seismic	\$142,626	Yes	\$142,626
2019 Primary Clarifier #4 Launderers	\$205,171	Yes	\$205,171
2019 Cogen Engine Replacement	\$2,410,553	Yes	\$2,410,553
2019 Cogen Tunnel & Utility Relocation	\$1,524,413	Yes	\$1,524,413
2019 Digester Gas Management	\$1,797,393	Yes	\$1,797,393
2019 Secondary Clarifiers 11 & 12	\$2,824,206	Yes	\$2,824,206
2019 Odor Control Construction	\$2,878,059	Yes	\$2,878,059
2019 SCADA Upgrades	\$290,504	No	0
2019 3W Pump & Cooling Station	\$1,207,338	Yes	\$1,207,338
2019 Headworks Screening & Grit System	\$768,741	Yes	\$768,741
2019 South Salt Lake Force Main	\$507,672	Yes	\$507,672
2019 Digester 4 Mixing Systems	\$279,055	Yes	\$279,055
2019 Cogen Construction	\$374,405	Yes	\$374,405
2019 Centrifugal Chiller	\$275,635	Yes	\$275,635
2019 Admin Building Seismic	\$31,176	No	0
2019 UV Pass #2 Equipment	\$663,315	Yes	\$663,315
Hydromantis Software	\$29,920	No	0
2019 Kobota Tractor	\$18,952	No	0
2019 Sidestream Phosphorous	\$20,000	Yes	\$20,000
2019 Sidestream Nitrogen	\$20,000	Yes	\$20,000

2019 Seeg Server	\$8,252	No	0
2019 Hyper-V Server	\$10,566	No	0
2019 Seeg Software	\$11,400	No	0
2019 Plant Security Cameras and System	\$50,488	No	0
2019 M580 PLC Headworks	\$148,840	Yes	\$148,840
GHID Slip Lining	\$1,777,784	Yes	\$1,777,784
Blend Tank Rebuild	\$1,173,448	Yes	\$1,173,448
Equal Tank Rebuild	\$1,173,448	Yes	\$1,173,448
Influent Box Culvert	\$3,738,228	Yes	\$3,738,228
2019 Office Trailer	\$115,452	No	0
2019 Restroom Trailer	\$135,998	No	0
2019 Blower Building	\$388,146	Yes	\$388,146
2019 Secondary Clarifier #1 Launderers	\$124,157	Yes	\$124,157
2019 Primary Clarifier #5 Launderers	\$119,876	Yes	\$119,876
2020 Chevy Silverado 2500 Diesel	\$50,467	No	0
2020 Hyper-V Server	\$22,239	No	0
2020 Hyper-V Server	\$22,238	No	0
2020 Modicon Power Gen MCC Controller	\$4,410	No	0
2020 South Interconnection	\$53,938	Yes	\$53,938
2020 Primary Clarifier #4 Launderers	\$33,096	Yes	\$33,096
2020 Johnson Control IFI Workstation	\$35,626	No	0
2020 Headworks Backup Generator	\$4,531	Yes	\$4,531
2020 Cisco Video Network	\$33,805	No	0
2020 Secondary Clarifier #9 Launderers	\$900	Yes	\$900
2020 Digester 4 Mixing Systems	\$68,786	Yes	\$68,786
2020 Muffle Furnace	\$10,652	No	0
2020 Natural Gas Storage Trailer	\$31,035	No	0
2021 International Truck	\$159,916	No	0
2020 Flask Scrubber	\$10,910	No	0
2020 Plant Security Cameras and System	\$59,808	No	0
2020 Primary Sludge Line Replacement	\$52,498	Yes	\$52,498
2020 Centrifugal Chiller	\$57,020	Yes	\$57,020
2020 Cisco Firewall	\$83,082	No	0
2020 Sludge Bin Load Cells	\$45,455	Yes	\$45,455
2020 Roll-off Bin	\$6,060	No	0
2020 Roll-off Bin	\$6,060	No	0
2020 Toyota Tacoma TRD Double Cab	\$33,759	No	0
2020 Toyota Tacoma Access Cab	\$28,497	No	0
2020 Dingo Walk Behind Loader	\$23,131	No	0
2020 UV Pass #2 Equipment	\$201,897	Yes	\$201,897
2020 Secondary Clarifier #1 Launderers	\$26,551	Yes	\$26,551

2020 Secondary Clarifier #2 Launderers	\$26,551	Yes	\$26,551
2020 Headworks System Controls	\$9,629	Yes	\$9,629
2020 3 Water & Pump Building System Controls	\$5,156	Yes	\$5,156
2020 Cogen System Controls	\$47,030	Yes	\$47,030
2020 Fuel Trailer	\$19,807	No	0
2020 Digester #3 Lid	\$685,130	Yes	\$685,130
2020 Fire Alarm System	\$76,135	Yes	\$76,135
2020 UV Forbay & Afterbay Mixing System	\$86,428	Yes	\$86,428
2020 SCADA Upgrades	\$53,520	No	0
2020 Murray/Cottonwood Siphon	\$84,854	Yes	\$84,854
2020 3 Water & Pump Building	\$5,268,776	Yes	\$5,268,776
2020 BNR Construction	\$3,080,045	Yes	\$3,080,045
2020 Blower Building	\$3,730,811	Yes	\$3,730,811
2020 Sidestream Phosphorus	\$550,590	Yes	\$550,590
2020 Sidestream Nitrogen	\$303,911	Yes	\$303,911
2020 Thickening Building	\$686,243	Yes	\$686,243
2020 Secondary Clarifier #4 Launderers	\$220,471	Yes	\$220,471
2020 South Salt Lake Force Main	\$1,377,189	Yes	\$1,377,189
2020 Odor Control Construction	\$386,904	Yes	\$386,904
2020 Secondary Clarifiers 11 & 12	\$241,209	Yes	\$241,209
2020 Headworks Bar Screens and Screw Conveyers	\$2,408,477	Yes	\$2,408,477
2020 Power Gen Elevator Rebuild	\$82,044	Yes	\$82,044
2020 Headworks Switch Gear 5KV	\$21,759	Yes	\$21,759
2020 Cogen Engine Replacement	\$2,102,920	Yes	\$2,102,920
2020 Digester Gas Management	\$162,666	Yes	\$162,666
2020 Trash Pump	\$90,548	Yes	\$90,548
Total	\$326,072,303		\$205,347,019

Appendix B-2
CVWRF Capital Improvement Plan

Table B-2.1: CVWRF CIP

Project ID	Project Name	Total Project Cost	Impact Fee Eligible	Eligible Project Cost
I. Collection System/Field Projects				
FLD02	South Salt Lake Force Main (Interceptor) Rehabilitation/Replacement (New Lining 2021)	\$1,682,522	Yes	\$1,450,000
FLD05	Influent Bypass Box and Vitro Ditch Piping Lining/Rehabilitation	\$2,907,450	Yes	\$2,907,450
FLD08	Big Cottonwood Creek Siphon/Inlet Box Rehab and Tunnel Filtrate Line CIPP Lining, GH Vent	\$2,402,000	Yes	\$2,402,000
A. Liquid Treatment Process Projects				
LTP02D	Admin Building Seismic Upgrades	\$1,200,000	Yes	\$1,200,000
LTP01A	Maintenance Building HVAC Upgrades	\$1,645,000	Yes	\$1,645,000
LTP02B	Maintenance Building Seismic Upgrades	\$1,450,000	Yes	\$1,450,000
	UV HVAC Replacment	\$106,250	Yes	\$106,250
LTP01E	Digester Buildings HVAC Upgrades	\$500,000	Yes	\$500,000
LTP01F	Tunnel and Misc. Building HVAC Upgrades	\$550,000	Yes	\$550,000
LTP02G	Tunnel and Misc. Building Seismic Upgrades	\$1,575,000	Yes	\$1,575,000
LTP02E	East & West Digester Control Buildings Seismic Upgrades	\$1,400,000	Yes	\$1,400,000
LTP02F	Aeration Basins, Clarifiers and Misc. Tanks Seismic Upgrades	\$1,050,000	Yes	\$1,050,000
LTP05	Headworks Screenings and Grit System Replacement (CC10C)	\$18,220,440	Yes	\$17,409,815
LTP07	Influent Pump Right Angle Gear Drive Rebuild and new impeller	\$382,450	Yes	\$314,200
LTP11	Primary & Secondary Clarifier Launder Replacement	\$4,461,875	Yes	\$3,674,375
	New RAS Pumps 1-8	\$655,000	Yes	\$475,000
LTP15	Rebuild Secondary Clarifier Drives	\$208,000	No	\$0
	Rebuild Primary Clarifier Drives 7-10	\$230,099	Yes	\$230,099
LTP16	Secondary Clarifier No. 1-8 Gate Repair/Replacement (8 units)	\$205,800	Yes	\$205,800
LTP17	3W/Cooling Pump Station, Hypochlorite System, Reuse Filters	\$31,154,440	Yes	\$27,104,440
LTP21	UV Pass No. 2 Equipment	\$210,000	No	\$0
LTP23	Headworks, Fermentors, Sludge Thickening Odor Control	\$550,000	Yes	\$550,000
LTP25	New Influent Pumps	\$2,750,000	Yes	\$350,000
LTP27	UV Equipment Replacement	\$4,764,375	Yes	\$3,307,500
LTP28	UV Building Screen Replacement	\$367,500	Yes	\$367,500
LTP29	Aeration Basin Diffuser Replacement	\$2,100,000	No	\$0

LTP32	UV Forbay and Afterbay Mixing	\$239,000	Yes	\$239,000
LTP34	Headworks Area Piping Replacement	\$86,800	Yes	\$86,800
CV16-2020	Dumpster Veyor	\$23,000	Yes	\$23,000
B. Biosolids Treatment and Disposal Projects				
BTD06	Digester No. 6-7 Mixing Pump Replacement	\$579,461	Yes	\$329,461
BTD07	Sludge Cake and Polymer Pump Rebuild	\$306,250	Yes	\$131,250
BTD08	New Dry Polymer Feed System/Upgrade Controls Existing System	\$52,500	No	\$0
BTD09	Refurbish Filtrate Tanks	\$1,000,000	Yes	\$1,000,000
BTD10	Refurbish Equalization and Blend Tanks	\$550,000	No	\$0
BTD11	Compost Covers (six)	\$688,380	Yes	\$613,380
BTD13	Digester 1-5 Mixing Systems Replacement (Vaughn Jet Mixing)	\$2,208,364	Yes	\$2,040,864
BTD 14	Digester 1-5 Cover Replacement	\$16,771,125	Yes	\$16,771,125
BTD 15	Replace Dewatering Seismic, Ventilation, Sludge Silo, and Equipment	\$20,974,250	Yes	\$20,974,250
BTD03	Egg Shaped Digester Recoating / New Exterior Sheathing (2)	\$4,270,000	Yes	\$4,270,000
BTD-17	Primary sludge line replacement	\$85,000	Yes	\$85,000
BTD-18	Roll Off Bins	\$12,120	Yes	\$12,120
	Odor Control Buildout	\$285,000	Yes	\$285,000
	Contingency	\$4,917,025	Yes	\$3,917,025
C. Energy Management Projects				
EM04	Rebuild Transformers (every 5 years)	\$274,636	Yes	\$135,988
EM05	Jenbacher Engine Overhaul	\$2,100,000	Yes	\$2,100,000
EM06	New Jenbacher Future Projects (Total Overhaul)	\$1,400,000	Yes	\$700,000
EM14	Cogen System Upgrades (Gas Treatment, Engine 1 & 2 Replacement, Cooling System Replacement)	\$6,086,600	Yes	\$5,261,600
EM16	Centrifugal Chiller and 3-stage Chiller Replacement	\$797,000	Yes	\$429,500
EM18	Aeration and Channel Blower Replacement	\$2,139,750	Yes	\$2,139,750
EM19	Air Compressor Replacement	\$426,300	No	\$0
EM21	Cathodic Protection Replacement	\$825,000	Yes	\$825,000
EM-M	Air Gap Tank Replacement	\$50,000	Yes	\$50,000
EM-M	Hydropneumatic Tank Replacement	\$200,000	Yes	\$200,000
EM-22	Headworks 5KV Switchgear Replacement	\$852,600	Yes	\$852,600
EM-23	Headworks Backup Generator (2 New 4160 V)	\$0	No	\$0
EM10	Power Gen. Swamp Coolers Replacement	\$0	No	\$0
EM-24	NG Storage Trailer for PreChamber	\$103,500	Yes	\$103,500
D. General Facilities and				

Grounds Projects				
GFG03	Fire Protection System Changeout	\$1,459,350	Yes	\$1,459,350
GFG05	Secondary Clarifiers Gearbox Rebuild (2 units)	\$0	No	\$0
GFG06	Metal Building Expansion	\$223,650	No	\$0
GFG07	Metal Building Rehab	\$456,750	Yes	\$456,750
GFG08	Blowdown Pond Improvement and Sealing	\$374,850	Yes	\$374,850
GFG11	Power Gen Elevator	\$249,000	Yes	\$149,000
GFG13	DEF Fueling Station	\$25,000	No	\$0
GFG15	Shower and Eye Wash Tempering	\$154,545	Yes	\$154,545
GFG16	Admin Building Roof/HVAC units	\$400,000	Yes	\$400,000
GFG17	Security Fencing & Gate Upgrades Around Plant	\$110,000	Yes	\$110,000
GFG18	Additional Diesel Storage Tank	\$150,000	Yes	\$150,000
GFG19	Electrical Conduit Bending Equipment	\$8,000	Yes	\$8,000
GFG20	Pretreatment Ice Machine	\$6,000	No	\$0
GFG21	Pretreatment Sampling Equipment	\$6,400	No	\$0
GFG22	Safety Gantry Equipment	\$10,000	No	\$0
	Natural Gas Meter Relocation	\$350,000	Yes	\$350,000
E. Rolling Stock				
RS01	Compost Rotomix Conveyor (for Existing Truck)	\$165,900	No	\$0
RS02	New Compost Rotomix and Truck	\$670,950	No	\$0
RS03	Scarab Compost Turner	\$1,096,200	No	\$0
RS04	Tarp Winder	\$274,050	No	\$0
RS05	Compost Screen	\$617,400	No	\$0
RS06	Wood Chipper	\$1,637,150	No	\$0
RS07	Sludge Trucks and Trailers	\$1,931,720	No	\$0
RS08	Grit/Screenings Truck and Roll Off Dumpsters	\$687,750	No	\$0
RS09	Scissor Lift/Boom Lift	\$257,250	No	\$0
RS10	Fork Lift	\$236,950	No	\$0
RS11	Boom Truck/Crane	\$562,500	No	\$0
RS12	10 Wheel Dump	\$727,650	No	\$0
RS13	Engineering/Field Services Pickup	\$217,820	No	\$0
RS14	Pretreatment Sampling Vehicle	\$2,050,777	No	\$0
RS15	Front End Loader	\$1,796,000	No	\$0
RS16	Operations and Maintenance Pickups	\$1,222,304	No	\$0
RS17	Mini Excavator	\$105,000	No	\$0
RS18	Large telehandler lift	\$225,000	No	\$0
RS19	Trash Pump	\$100,000	No	\$0
RS20	Dingo Skid Steer	\$23,155	No	\$0
CV17 - 2020	Fuel Trailer	\$19,000	No	\$0

	Skid steer loader	\$115,000	No	\$0
F. IT Projects				
IT05	Asset Management Software and Setup	\$651,000	No	\$0
IT06	Phone VOIP Replacement	\$95,550	No	\$0
IT07	Flow Stations - New Radio Frequency (digital)	\$198,450	No	\$0
IT10	Color Copier/Scanner	\$35,700	No	\$0
IT12	Endura VMS (Video Management System)	\$159,600	No	\$0
IT13	Fiber Network Upgrades	\$315,000	No	\$0
IT15	Electronic O&Ms	\$78,750	No	\$0
IT16	SCADA/PLC Changeout and Upgrades	\$3,353,441	No	\$0
IT 19	Control Room Console Equipment and Screen Replacement	\$393,750	No	\$0
IT 20	IT Server Replacement Rotation	\$208,948	No	\$0
IT 21	Plant Gates	\$210,000	No	\$0
IT 22	UV Channel Power Distributions Units	\$437,000	No	\$0
IT 23	Operator Logbook replacement	\$50,000	No	\$0
IT 24	PLC M580 Change Out Headworks/UV	\$100,000	No	\$0
IT 25	Pretreatment IUMS Software	\$50,000	No	\$0
IT 26	HR Software	\$150,000	No	\$0
IT 27	Septage Receiving Station	\$103,000	No	\$0
IT 28	PI Tags	\$40,000	No	\$0
IT 29	New Process Control Network HLS	\$0	No	\$0
IT 30	Admin & Headworks & PowerGen Roof Cameras	\$62,000	No	\$0
IT 31	Firewall Upgrade	\$90,000	No	\$0
IT 32	Hach/Wims (Engineering)	\$50,000	No	\$0
G. Lab Projects				
LAB01	GC/MS System	\$411,600	No	\$0
LAB02	LIMS System	\$247,450	No	\$0
LAB03	Discrete Analyzer	\$112,350	No	\$0
LAB04	LC/MS System	\$446,250	No	\$0
LAB05	Flask Scrubber Washer	\$55,656	No	\$0
LAB06	Muffle Furnace	\$80,500	No	\$0
LAB07	ICP MS	\$450,000	No	\$0
LAB08	Drying Oven	\$14,260	No	\$0
LAB09	Analytical Pump	\$49,000	No	\$0
H. Nutrient Removal Upgrade Projects				
CC 10B	PRIMARY EFFLUENT CHANNEL - SOUTH INTERCONNECTION CC 10B	\$500	Yes	\$500

CENTRAL VALLEY WATER RECLAMATION FACILITY

CC 30AE	CONSTRUCTION CONTRACT 30A (CC 30A) BLOWER BUILDING	\$55,365,111	Yes	\$55,365,111
CC 30B	CONSTRUCTION CONTRACT 30B (CC 30B) BNR BASINS/PEPS	\$127,801,384	Yes	\$127,801,384
CC 30C	CONSTRUCTION CONTRACT 30C (CC 30C) SIDESTREAM PHOSPHORUS	\$10,841,194	Yes	\$10,841,194
CC 30D	CONSTRUCTION CONTRACT 30D (CC 30D) THICKENING BUILDING	\$29,354,093	Yes	\$29,354,093
CC 30EF	CONSTRUCTION CONTRACT 30E (CC 30E) SIDESTREAM NITROGEN	\$13,589,591	Yes	\$13,589,591
CC 10D	CONSTRUCTION CONTRACT 10D (CC 10D) SITE RESTORATION/Demo	\$8,812,685	Yes	\$8,812,685
NUT05	Accelerate design/construction of Two Secondary Clarifiers for Nutrient Removal	\$1,956,000	Yes	\$210,000
NUT06	Food Waste Receiving Facility	\$6,565,848	Yes	\$6,141,848
	Total	\$428,376,117		\$389,529,541

Appendix B-3
CVWRF Bond Payment Schedule

Table B-3.1: CVWRF Existing Bond Payment Schedule

Year	2017A Sewer Revenue Bonds			2017B Sewer Revenue Bonds			2019A Sewer Revenue Bonds			2020A State SRF Loan		
	Interest	Principal	Balance	Interest	Principal	Balance	Interest	Principal	Balance	Interest	Principal	Balance
2016												
2017	\$148,204		\$28,600,000			\$3,445,000						
2018	\$1,287,725	\$905,000	\$27,695,000	\$90,491	\$350,000	\$3,095,000						
2019	\$1,255,450	\$935,000	\$26,760,000	\$74,065	\$410,000	\$2,685,000	\$268,343		\$35,390,000			
2020	\$1,217,250	\$975,000	\$25,785,000	\$65,655	\$420,000	\$2,265,000	\$1,610,100	\$1,090,000	\$34,300,000			\$15,000,000
2021	\$1,177,450	\$1,015,000	\$24,770,000	\$56,088	\$430,000	\$1,835,000	\$1,554,100	\$1,150,000	\$33,150,000	\$675,000	\$0	\$45,000,000
2022	\$1,130,650	\$1,060,000	\$23,710,000	\$45,535	\$440,000	\$1,395,000	\$1,495,225	\$1,205,000	\$31,945,000	\$976,500	\$0	\$65,100,000
2023	\$1,076,275	\$1,115,000	\$22,595,000	\$33,960	\$450,000	\$945,000	\$1,433,350	\$1,270,000	\$30,675,000	\$976,500	\$2,815,297	\$62,284,703
2024	\$1,019,025	\$1,175,000	\$21,420,000	\$21,143	\$465,000	\$480,000	\$1,368,225	\$1,335,000	\$29,340,000	\$934,271	\$2,857,526	\$59,427,177
2025	\$958,775	\$1,235,000	\$20,185,000	\$7,200	\$480,000	\$0	\$1,310,150	\$1,390,000	\$27,950,000	\$891,408	\$2,900,389	\$56,526,788
2026	\$895,400	\$1,300,000	\$18,885,000				\$1,260,325	\$1,440,000	\$26,510,000	\$847,902	\$2,943,895	\$53,582,893
2027	\$828,775	\$1,365,000	\$17,520,000				\$1,197,575	\$1,505,000	\$25,005,000	\$803,743	\$2,988,054	\$50,594,839
2028	\$758,775	\$1,435,000	\$16,085,000				\$1,120,450	\$1,580,000	\$23,425,000	\$758,923	\$3,032,874	\$47,561,965
2029	\$692,900	\$1,500,000	\$14,585,000				\$1,039,325	\$1,665,000	\$21,760,000	\$713,429	\$3,078,368	\$44,483,597
2030	\$631,700	\$1,560,000	\$13,025,000				\$953,950	\$1,750,000	\$20,010,000	\$667,254	\$3,124,543	\$41,359,054
2031	\$568,000	\$1,625,000	\$11,400,000				\$864,325	\$1,835,000	\$18,175,000	\$620,386	\$3,171,411	\$38,187,643
2032	\$501,700	\$1,690,000	\$9,710,000				\$770,200	\$1,930,000	\$16,245,000	\$572,815	\$3,218,982	\$34,968,661
2033	\$432,700	\$1,760,000	\$7,950,000				\$671,200	\$2,030,000	\$14,215,000	\$524,530	\$3,267,267	\$31,701,394
2034	\$351,500	\$1,840,000	\$6,110,000				\$577,950	\$2,125,000	\$12,090,000	\$475,521	\$3,316,276	\$28,385,118
2035	\$257,125	\$1,935,000	\$4,175,000				\$491,250	\$2,210,000	\$9,880,000	\$425,777	\$3,366,020	\$25,019,098
2036	\$157,875	\$2,035,000	\$2,140,000				\$401,050	\$2,300,000	\$7,580,000	\$375,286	\$3,416,511	\$21,602,587
2037	\$53,500	\$2,140,000	\$0				\$307,150	\$2,395,000	\$5,185,000	\$324,039	\$3,467,758	\$18,134,829
2038							\$195,500	\$2,550,000	\$2,635,000	\$272,022	\$3,519,775	\$14,615,054
2039							\$65,875	\$2,635,000	\$0	\$219,226	\$3,572,571	\$11,042,483
2040										\$165,637	\$3,626,160	\$7,416,323
2041										\$111,245	\$3,680,552	\$3,735,771
2042										\$56,037	\$3,735,771	\$0
2043												
Total	\$15,400,754	\$28,600,000		\$394,136	\$3,445,000		\$18,955,618	\$35,390,000		\$12,387,451	\$65,100,000	

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