City of Kingman
310 North Fourth St • Kingman AZ 86401

Water and Wastewater Rate and Investment Fee Study

October 2008

Final Report

Report Prepared By:

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RED OAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

October 22, 2008

Ms. Coral Loyd
Finance Director
City of Kingman
310 North Fourth St
Kingman, Arizona 86401

Dear Ms. Loyd:

On behalf of Red Oak Consulting I am pleased to submit this report on the Water and Wastewater Rate and Investment Fee Study completed for the City of Kingman, Arizona.

Thank you for the opportunity to be of service to the City on this important project. Questions regarding our report should be directed to me at (303) 316-6524.

Very truly yours,

RED OAK CONSULTING
A division of Malcolm Pirnie, Inc.

Kevin J. Burnett
Consultant

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Introduction

The firm of Red Oak Consulting (Red Oak) was retained by the City of Kingman (the City) to develop financial plans for the water and wastewater utility as well as develop water and wastewater investment fees.

The financial plan is based on the City's proposed fiscal year (FY) 2008-09 budget and includes the 11-year study period covering the years FY 2008-09 through FY 2018-19. For accounting and reporting purposes the City uses a fiscal year ending June 30. Two plans for each utility were developed. A 20-year debt plan based on a 20-year payback period on debt and a 30-year debt plan developed based on a 30-year debt repayment schedule.

The results of the financial planning task provide an indication of the need for additional service charge revenues to maintain the financial integrity of the City's Water and Wastewater Enterprise Funds. Red Oak also worked with the City to evaluate water and wastewater investment fees.

Rates for water, wastewater and investment fees will be discussed in turn, in the balance of this report.

Findings

The most significant findings and recommendations resulting from this study are listed below. The balance of this report, including the appendices, contains supporting schedules regarding key findings listed below.

1. Water and wastewater operations cash balances or reserves (cash reserve ratio) should be established such that water and wastewater reserves respectively are equal to at least 25% (approximately 90 days) of annual cash operation and maintenance (O&M) costs.
2. Debt service coverage requirements (which are calculated by dividing net revenue after O&M costs by annual debt service) should be at least 1.33 times the annual debt service for all outstanding debt.
3. Service charge revenue increases for FY 2008-09 are projected to occur January 1, and July 1 in all subsequent years.
4. Investment fee increases are anticipated to be effective July 1 2009.
5. Loans are required from the wastewater operations fund to the investment fee fund in order to fund capital prior to the collection of investment fees. The loan is fully repaid to the operations fund as investment fee revenue is generated.

The proposed revenue increases are needed to meet the cash reserve and debt service coverage ratios. The projected water revenue increases for the 20-year debt plan are noted in Table 1.

Water

Table 1.
Water Operations 20-Year Debt Plan

Fiscal Year	Revenue Increase	Cash Reserve Ratio [1]	Debt Service Coverage Ratio [2]
2008-09	10%	8%	n/a
2009-10	10%	29%	n/a
2010-11	10%	38%	3.72
2011-12	6%	29%	4.39
2012-13	0%	34%	2.72
2013-14	0%	30%	2.77
2014-15	0%	27%	2.78
2015-16	0%	25%	2.78
2016-17	3%	26%	3.01
2017-18	0%	27%	3.00
2018-19	0%	27%	2.95
Average Monthly Residential Bill [3]			
FY 2008-09	$21.24		
FY 2018-19	$30.86		
% Change	45%		

[1] Coverage ratio calculated on rate revenue.
[2] Coverage ratio calculated on revenue bond debt Total Fund.
[3] Assumes the City's existing rate structure and 8,450 gallons of water use.

The proposed revenue increases begin with a 10% increase in FY 2008-09. The rates for all subsequent years are computed based on the previous year's rate multiplied by the indicated rate increase (Table 1). The total increase between FY 2008-09 and FY 2018-19 is approximately $9.62 a month, when comparing the City's existing rate structure with the proposed increases using 8,450 gallons of water use.

Even with the projected revenue increases the cash reserve ratio is not expected to meet the 25% cash reserve ratio until FY 2009-10. Note that the cash reserve ratio is a self-imposed guideline and not a legal requirement; however, the cash reserve ratio should not dip below 25% for prolonged periods of time.

The debt service coverage requirements are met in all years of the eleven-year planning horizon. While the debt service coverage ratio is well above the 1.33 requirement, the need for revenue increases is being driven by the cash reserve ratio, which is just above the 25% threshold in FY 2018-19. The average monthly bill in FY 2008-09 for a single family residential customer using 8,450 gallons a month is projected to be $23.36. The full financial plan can be found in Appendix A.

Table 2 projects the proposed service charge revenue increases under the 30-year debt plan.

Table 2.
Water Operations 30-Year Debt Plan

Fiscal Year	Revenue Increase	Cash Reserve Ratio [1]	Debt Service Coverage Ratio [2]
2008-09	10%	8%	n/a
2009-10	10%	29%	n/a
2010-11	10%	39%	3.71
2011-12	2%	25%	3.95
2012-13	0%	29%	3.07
2013-14	5%	29%	3.57
2014-15	0%	28%	3.60
2015-16	0%	29%	3.60
2016-17	0%	30%	3.60
2017-18	0%	30%	3.58
2018-19	0%	30%	3.52
Average Monthly Residential Bill [3]			
FY 2008-09	$21.24		
FY 2018-19	$30.27		
% Change	43%		

[1] Coverage ratio calculated on rate revenue.
[2] Coverage ratio calculated on Total Fund.
[3] Assumes the City's existing rate structure and 8,450 gallons of water use.

As was the case under the 20-year debt plan, the proposed revenue increases begin with a 10% increase in FY 2008-09. The rates for all subsequent years are computed based on the previous year's rate multiplied by the indicated rate increase (Table 2). The total increase between FY 2008-09 and FY 2018-19 is approximately $9.03 a month, when comparing the City's existing rate structure with the proposed increases using 8,450 gallons of water use.

Even with the projected revenue increases the cash reserve ratio is not expected to meet the 25% cash reserve ratio until FY 2009-10. Note that the cash reserve ratio is a self-

imposed guideline and not a legal requirement; however, the cash reserve ratio should not dip below 25% for prolonged periods of time.

The debt service coverage requirements are met in all years of the eleven-year planning horizon. As was the case under the 20-year plan, the need for rate increases is being driven by the cash reserve ratio, where in FY 2018-19 the ratio is just above the target of 25%. The average monthly summer bill in FY 2008-09 for a single family residential customer using 8,450 gallons a month is projected to be $23.36. The full financial plan can be found in Appendix B.

Base Charge

The proposed 10% revenue increase for either the 20-year debt plan or the 30-year debt plan could be applied in an across the board fashion to the City's current rate structure. An alternative would be to increase the existing base rate by a greater percentage than the volume structure. The higher base rate would provide greater revenue stability to the City since the base rate is assessed to customers every month regardless of water usage. The volume component of the City's rate on the other hand is subject to consumers use patterns and can result in less revenue stability if consumers use less water.

The City's current water base charge generates approximately 14% of annual service charge revenues. Table 3 illustrates the City's current base charge escalated for the proposed 10% increase. This option will continue to generate 14% of annual service charge revenue. Two alternatives were examined. The first reflects the proposed 10% revenue increase as well as an adjustment such that the base charge will generate 20% of annual service charge revenues. The second alternative reflects the proposed 10% revenue increase as well as an adjustment to generate 25% of annual service charge revenue from the base charge.

Table 3.
Water Monthly Base Charge Alternatives

Class	Current	Across the Board	20% Base Charge Revenue	25% Base Charge Revenue
Residential (Inside)	$ 4.34	$ 4.77	$ 6.21	$ 7.77
Residential (Outside)	5.85	6.44	8.37	10.47
Non Residential (Inside)	4.34	4.77	6.21	7.77
Non Residential (Outside)	5.85	6.44	8.37	10.47
Irrigation (Inside)	4.34	4.77	6.21	7.77
Irrigation (Outside)	5.85	6.44	8.37	10.47

As identified in the Table 3 the base charge for an inside City customer ranges from $4.77 per month under the across the board approach to $6.21 under the 20% service charge revenue approach (an increase in the base charge of 43%), to a high of $7.77 a month under the 25% base charge revenue approach (an increase in the base charge of 79%). The same approach was taken to the outside City base charge.

Volume Charge

As was the case with the base charge the volume rate charges could be increased in an across the board 10% fashion. Alternatively if the 20% or 25% base charge revenue scenarios were adopted the volume rate charge would increase by less than 10% in order to maintain revenue neutrality across the three alternatives. The alternatives are illustrated in Table 4.

Table 4.
Water Volume Charge Alternatives

Class	Usage Block	Current	Across the Board	20% Revenue	25% Revenue
Single Family	0 – 10,000	$1.64	$1.80	$1.72	$1.61
(Inside City)	10,001 – 45,000	2.06	2.23	2.16	2.02
	> 45,000	3.09	3.40	3.24	3.03
Single Family	0 – 10,000	$2.21	$2.43	$2.32	$2.17
(Outside City)	10,001 – 45,000	2.78	3.06	2.92	2.72
	> 45,000	4.17	4.59	4.38	4.09
Non Residential (Inside City)	All Usage	1.85	2.04	1.94	1.81
Non Residential (Outside City)	All Usage	2.50	2.75	2.63	2.45
Irrigation	0 – 20,000	2.06	2.23	2.16	2.01
(Inside City)	> 20,000	3.09	3.40	3.24	3.03
Irrigation	0 – 20,000	2.78	3.06	2.92	2.72
(Outside City)	> 20,000	4.17	4.59	4.38	4.09

In order to maintain revenue neutrality across the three alternatives a 10% across the board rate increase could be applied to all rates. Under the 20% base charge alternative the volume rates would increase by 5%. Under the 25% base charge alternative the current volume rates would decrease by 2%.

The City's current rate structure is a conservation oriented rate structure with a relatively low monthly base charge and a resulting higher volume charge. The trend in the industry is towards this type of rate structure where a higher rate is charged as more water is consumed. The idea is to send a price signal to the user, in order to promote conservation. Adopting the across the board rate increases will maintain the current conservation oriented rate structure.

The 25% base charge alternative reduces the conservation price signal as the volume rate would be lower than is currently assessed, but promotes revenue stability. Because the monthly base charge is higher and is assessed every month regardless of water use the City will have a more predictable revenue stream.

The 20% base charge alternative is a blend of the other two alternatives. More revenue is generated from the base charge than under the across the board alternative which adds revenue stability for the City. The volume charge is also increasing which promotes conservation, but not as much as under the across the board approach.

Capital Renewal Fee

The City currently assesses a capital renewal fee to all water customers (both inside and outside City limits and all classes. The current fee is a flat rate of $3.04 per month. Under the proposed financial plan identifying a need for a 10% revenue increase, the capital renewal fee is proposed to increase by 10%. The 10% increase equates to a fee increase of $0.30 a month, from $3.04 to $3.34. The capital renewal fee for all subsequent years are computed based on the previous year's rate multiplied by the indicated rate increase in Table 1 if the 20-year debt plan is adopted or Table 2 if the 30-year debt plan is adopted.

A comparison of the proposed monthly single family water bill to the City's neighboring communities can be found in Appendix C.

Wastewater

Similar to the revenue increase schedule for the water operations, Red Oak proposes revenue increases to the City's wastewater operations in order to meet cash reserve and debt service coverage ratios. The proposed wastewater revenue increases are illustrated in Table 5.

Table 5.
Wastewater Operations 20-Year Debt Plan

Fiscal Year	Revenue Increase	Cash Reserve Ratio [1]	Debt Service Coverage Ratio [2]
2008-09	48%	67%	2.19
2009-10	50%	12%	1.97
2010-11	7%	18%	2.18
2011-12	0%	26%	1.41
2012-13	0%	44%	1.63
2013-14	-7%	28%	1.51
2014-15	-5%	28%	1.45
2015-16	-4%	36%	1.42
2016-17	-0%	33%	1.45
2017-18	-3%	31%	1.43
2018-19	0%	29%	1.46
Average Monthly Residential Bill			
FY 2008-09	$14.44		
FY 2018-19	$28.22		
% Change	95%		

[1] Coverage ratio calculated on rate revenue.
[2] Coverage ratio calculated on Total Fund.

A 48% revenue increase in FY 2008-09 is projected to be necessary in order to maintain the financial integrity of the wastewater operations. The rates for all subsequent years are computed based on the previous year's rate multiplied by the indicated rate increase (Table 5). The wastewater utility faces large revenue requirements (or expenditures) in the early years of the financial plan which generate the need for revenue increases. These increases include large capital expenditures and an increase in the O&M escalation factor from 3% to 10% for FY 2011- through FY 2013-14 in recognition of increased costs associated with the wastewater treatment plant expansion.

However, as annual capital expenditures decrease in the future there may be an opportunity for rate revenue decreases as projected in Table 5. It will be imperative for the City to maintain periodic reviews of the revenues and expenditures of the utility in

order to make appropriate adjustments to wastewater rates. The total increase between FY 2008-09 and FY 2018-19 is approximately $13.78 a month.

The wastewater cash reserve ratio is expected to dip below 25% in some years of the study period. As was the case for the water utility, the cash reserve ratio is not a legal requirement, but rather a self-imposed standard. While the cash reserve ratio drops in FY 2009-10 through FY 2011-12 to a low of 9%, the ratio begins to rebound in the following year. The debt service coverage requirements are met in all years of the planning horizon. The full financial plan can be found in Appendix D.

Similar to the revenue increase schedule for the 20-year debt plan, Red Oak proposes revenue increases under the 30-year debt plan to the City's wastewater operations in order to meet cash reserve and debt service coverage ratios. The proposed wastewater revenue increases are illustrated in Table 6.

Table 6.
Wastewater Operations 30-Year Debt Plan

Fiscal Year	Revenue Increase	Cash Reserve Ratio [1]	Debt Service Coverage Ratio [2]
2008-09	48%	66%	2.19
2009-10	50%	15%	1.97
2010-11	0%	9%	2.02
2011-12	0%	37%	1.60
2012-13	-13%	36%	1.61
2013-14	0%	30%	1.62
2014-15	-5%	28%	1.56
2015-16	0%	36%	1.60
2016-17	-6%	31%	1.51
2017-18	0%	28%	1.54
2018-19	0%	26%	1.58
Average Monthly Residential Bill			
FY 2008-09	$14.44		
FY 2018-19	$24.91		
% Change	73%		

(1) Coverage ratio calculated on rate revenue.
(2) Coverage ratio calculated on Total Fund.

A 48% revenue increase in FY 2008-09 is projected to be necessary in order to maintain the financial integrity of the wastewater operations. The rates for all subsequent years are computed based on the previous year's rate multiplied by the indicated rate increase (Table 6). As was the case under the 20-year plan there may be an opportunity for rate revenue decreases under the 30-year plan as projected in Table 6. It will be imperative for the City to maintain periodic reviews of the revenues and expenditures of the utility in

order to make appropriate adjustments to wastewater rates. The total increase between FY 2008-09 and FY 2018-19 is approximately $10.47 a month.

The wastewater cash reserve ratio is expected to dip below 25% in some years of the study period. As was the case for the water utility, the cash reserve ratio is not a legal requirement, but rather a self-imposed standard. While the cash reserve ratio drops in FY 2009-10 through FY 2010-11 to a low of 9%, the ratio begins to rebound in the following year. The debt service coverage requirements are met in all years of the planning horizon. The full financial plan can be found in Appendix E.

The proposed 45% revenue increase under either plan is proposed to be applied in an across the board fashion to all current rates. The City's current rate structure is based on a monthly base charge and a flow charge assessed per 1,000 gallons of contributed flow. The residential flow charge is assessed based on the winter average (December, January, February), while the non residential flow charge is assessed on all water use.

The current rates and the rates under the proposed revenue increase are shown in Table 7.

Table 7.
Proposed Wastewater Charges

Class	Current Rates		Proposed Rates	
	Base Charge	Flow Charge	Base Charge	Flow Charge
Residential (1)	$6.41	$1.306	$9.49	$1.933
Auto Steam Clean	6.41	4.951	9.49	7.327
Bakery Wholesale	6.41	3.489	9.49	5.164
Bars Without Dining	6.41	1.351	9.49	1.999
Car Wash	6.41	0.943	9.49	1.396
Department/Retail Stores	6.41	1.171	9.49	1.733
Hospital/Convalescent	6.41	1.256	9.49	1.859
Hotel/Motel with Dining	6.41	2.613	9.49	3.867
Hotel/Motel without Dining	6.41	1.396	9.49	2.066
Industrial Laundry	6.41	3.060	9.49	4.529
Laundromat	6.41	1.098	9.49	1.625
Commercial Laundry	6.41	1.862	9.49	2.756
Market w/ Garbage Disposal	6.41	3.509	9.49	5.193
Mortuaries	6.41	3.509	9.49	5.193
Professional Office	6.41	1.007	9.49	1.490
Repair Shop/Service Station	6.41	1.462	9.49	2.164
Restaurant	6.41	3.665	9.49	5.424
School/College	6.41	1.043	9.49	1.544
Soft Water Service	6.41	0.742	9.49	1.098
Government/Public Buildings	6.41	1.007	9.49	1.490
Churches	6.41	1.043	9.49	1.544
Apartments	6.41	1.351	9.49	1.999
Mobile Home Parks	6.41	1.351	9.49	1.999
Storage, Wholesale	6.41	1.171	9.49	1.733
Industrial Manufacturing	6.41	1.351	9.49	1.999
Jail	6.41	2.613	9.49	3.867
Septage	6.41	32.228	9.49	47.697

A comparison of the City's proposed fees to neighboring communities can be found in Appendix F.

Investment Fees

The term "Investment Fee" is used often interchangeably with other similar terms in the water and wastewater utility industry to describe a fee or charge that recovers capital costs associated with system growth. The fee is intended to represent the unit cost of providing the capacity required to serve new development. Also known as tap fees, impact fees or development charges and other terms, an investment fee is a one-time charge for new connections to the system, and is designed to recover capital investments to provide capacity to new growth. Investment fees are also assessed to existing connections/customers to the extent the demand for service from said customer is increased, e.g., a customer's demand for service increases to the extent that a larger meter or service line is required.

There are a number of methodologies that can be used to calculate investment fees. The American Water Works Association (AWWA) *M1 Manual of Water Supply Practices* and the Water Environment Federation (WEF) *M27 Financing and Charges for Wastewater Systems* recognize three methodologies for calculation of investment fees:

- The equity buy-in method
- The incremental cost method
- The combined, or hybrid approach

Equity Buy-In Method

The equity buy-in method (or buy-in method) is most appropriate in situations where new customers can be served by the existing system. Under this method new customers pay a fee based on their proportionate share of the value of the existing facilities. The buy-in approach determines the value of the existing system assets and divides it by the current total equivalent meters served by the system. The result is an investment fee per equivalent meter. AWWA states that the buy-in method is best employed within systems that have adequate capacity to serve both existing and future customers without major system expansions and where existing facilities are not scheduled for replacement in the short-term.

Incremental Cost Method

The incremental cost method is most appropriate when the existing system is at or near its maximum capacity and new customers must be accommodated with significant development of new facilities. Under the incremental cost method, new customers pay a fee representing their proportionate share of the expansion-related costs of the new facilities. The investment fee is calculated using the capital improvement program (CIP) for a 5, 10, or 20 year period. Total CIP dollars for growth are divided by total new equivalent meters able to be served to calculate the investment fee per equivalent unit.

Combined or Hybrid Method

The combined or hybrid method is generally appropriate when new customers will use capacity available in the existing facilities (buy-in) as well as new capacity required to accommodate the additional units of service (incremental cost). To calculate the combined investment fee per equivalent meter, a weighted average of the fee calculated under the buy-in and incremental approaches are computed.

In calculating the water investment fee for the City Red Oak used the buy-in fee. It is Red Oak's belief that the City's water system has adequate capacity available in the existing water system to serve growth in the near future. The single family investment fee is proposed to increase from $1,200 to $3,370 an increase of 180.8%. The investment fee for larger meter sizes are based on the current ratio of larger meter sizes to a 5/8-inch by ¾-inch meter. The current and proposed water investment fees are illustrated in Table 8.

Table 8.
Water Investment Fees

Meter Size	Current	Proposed
5/8-inch x 3/4-inch	$ 1,200	$ 3,370
1-inch	3,000	8,425
1 ½-inch	6,000	16,850
2-inch	9,600	26,960
3-inch	19,200	53,920
4-inch	28,000	78,633
6-inch	60,000	168,500
8-inch	96,000	269,600
10-inch	138,000	387,550

The proposed wastewater investment fee for the City was calculated using the incremental approach due to the significant future capital investments in wastewater in the next 10-years. The current investment fee is $66 per fixture unit. The proposed fee calculated by Red Oak is $91 an increase of 38%. The new fee is projected to be effective July 1 2009, and increase at an inflationary rate of 4% per year based on the ENR index.

A comparison of the City's investment fees to those in other communities can be found in Appendix G.

Conclusions

Red Oak proposes revenue increases for both the water and wastewater operations. The revenue increases are necessary in order for water and wastewater operations to fund O&M costs and capital programs. The debt service coverage ratios on outstanding debt are above the 1.33 coverage requirements in each of the year of the study period.

All rate increases for FY 2008-09 are proposed to become effective January 1st. At this time, the City is not required to adopt projected future year revenue increases. The increases that have been projected for FY 2008-09 are anticipated to be sufficient to maintain the financial integrity of the water and wastewater operations through FY 2008-09. As part of the annual budget process the financial integrity of the water and wastewater operations should be reviewed and rates should be adjusted appropriately.

Increases to the City's water and wastewater investment fees are proposed in order to ensure that new development is paying its proportionate share of the costs to serve them and are not being subsidized by existing residents.

City of Kingman
Water and Wastewater Rates and Investment Fee Study

Appendix A: Water 20-Year Debt Plan

RED OAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

5204-003 / DEN

CITY OF KINGMAN
WATER RATE STUDY
DECISION CRITERIA - WATER
20-Year Plan

FILE: Kingman2008
SCHEDULE: DECISIONS
DATE: 10/22/2008
RANGE: DECISIONS1

DESCRIPTION	Budget Year FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Revenue Increase - Overall	10.0%	10.0%	10.0%	6.0%	0.0%	0.0%	0.0%	0.0%	3.0%	0.0%	0.0%
Effective Month of Increase	7	1	1	1	1	1	1	1	1	1	1
(effective 1st day of month: 1=July 12=June)											
Base Charge Component Increase (43% Increase)	$6.21	$6.83	$7.51	$7.96	$7.96	$7.96	$7.96	$7.96	$8.20	$8.20	$8.20
Capital Renewal Fee Component Increase (10% Increase)	3.34	3.68	4.05	4.29	4.29	4.29	4.29	4.29	4.42	4.42	4.42
Volume Charge Component Increase (5% increase)	14.53	15.99	17.59	18.64	18.64	18.64	18.64	18.64	19.20	19.20	19.20
Monthly Residential Bill (Based on 8,450 Gallons)	$24.08	$26.49	$29.14	$30.89	$30.89	$30.89	$30.89	$30.89	$31.82	$31.82	$31.82
Investment Fee Increase	0.0%	180.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Single-Family Residential Fee	$1,200	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370
Bond/Loan Proceeds											
Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Investment Fee Subfund	0	0	0	0	0	0	0	0	0	0	0
WIFA Loan Proceeds	3,258,759	4,053,081	0	3,376,320	3,258,759	0	0	0	0	0	0
Total Fund	$3,258,759	$4,053,081	$0	$3,376,320	$3,258,759	$0	$0	$0	$0	$0	$0
Loans To Investment Fee Subfund											
From Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0	0	0	0
Loans To Operations Subfund											
From Investment Fee Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0	0	0	0
Working Capital Reserve - Operations Fund [1]	8%	29%	38%	29%	34%	30%	27%	25%	26%	27%	27%
Debt Service Coverage - Total Fund [2]	N/A	N/A	3.72	4.39	2.72	2.77	2.78	2.78	3.01	3.00	2.95
Reserve Balances - End of Year											
Operations Fund	744,523	2,812,095	3,792,618	2,937,868	3,544,667	3,282,708	3,001,194	2,881,367	3,101,042	3,273,982	3,365,630
Investment Fee Fund	4,341,029	6,095,647	5,492,150	6,041,796	8,990,719	9,968,490	10,934,483	12,007,143	13,067,309	14,108,029	15,134,571
Reserves Fund	0	0	320,060	646,521	979,512	1,319,162	1,665,605	1,698,917	1,732,896	1,767,553	1,802,905
Total Fund	$5,085,552	$8,907,741	$9,604,828	$9,626,185	$13,514,898	$14,570,360	$15,601,281	$16,587,427	$17,901,246	$19,149,565	$20,303,105
CIP Funded by Debt											
Cumulative Bonds/Loans	$3,258,759	$7,311,840	$7,311,840	$10,688,160	$13,946,919	$13,946,919	$13,946,919	$13,946,919	$13,946,919	$13,946,919	$13,946,919
Cumulative % of CIP Funded by Debt	117.4%	128.6%	62.0%	57.5%	66.9%	61.2%	56.2%	51.8%	47.9%	44.5%	41.3%
Capital Improvement Plan	$2,775,000	$2,912,500	$6,099,533	$6,795,532	$2,249,728	$1,946,657	$2,024,523	$2,105,504	$2,189,724	$2,277,313	$2,368,405
Cumulative CIP Amount	$2,775,000	$5,687,500	$11,787,033	$18,582,565	$20,832,293	$22,778,950	$24,803,472	$26,908,976	$29,098,700	$31,376,013	$33,744,418

[1] Target reserve: 25% Working Capital Reserve as a percent of Operating Expenditures
[2] Revenue Bond debt service coverage target: 1.33

REDDAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

CITY OF KINGMAN
WATER RATE STUDY
GENERAL INPUT SCHEDULE

FILE:	**Kingman2008**
SCHEDULE:	**INPUT**
DATE:	**10/22/2008**
RANGE:	**INPUT1**

1. General Model Parameters

FILE:	**Kingman2008**	
Enter Base Year (fiscal year)	**2008**	**FY 2007-08**

2. Operating Revenue

		FY 2008-09
410.1010	City Residential Water Service	$3,208,700
410.1020	City Commercial Water Service	1,660,100
410.1090	Fill Stands	9,200
410.2010	County Residential Water Service	2,148,600
410.2020	County Commercial Water Service	306,800
470.1010	City Capital Renewal Fees	735,600
	County Capital Renewal Fees	0
430.1010	City New Meter Connections	130,000
430.2010	County New Meter Connections	91,000
440.1010	City Connections	30,000
440.1020	Other Connection Fees	0
440.2010	County Connections	30,800
440.9090	Delinquent Notice Fees	115,000
440.9091	Delinquent Disconnect Fees	45,000
440.9092	Special Service Calls	3,000
490.1011	Project Bid Plans	1,000
490.1012	Returned Check Fee	5,000
490.1020	Johnson Canyon Well Lease	3,885
490.1030	Right of Way Permits	20,000
490.1050	Utility Line Payback	0
490.1015	Engineering Fees	25,000
490.1080	Bad Debt Recovery	0
490.1090	Unclassified Revenues	25,000
361.0100	Interest Income	10,000
	Transfer From Other Sources	0
494.102	Engineering Adm Support-from HURF	106,100
494.102	Engineering Adm Support-from Swr	507,395
	Beginning Fund Balance	407,661
	Total	$9,624,841

3. Operating Expenditures

		FY 2008-09
	Personnel Expenses	$3,145,514
	Supplies & Services	2,813,111
	Engineering Dept. Service Costs	1,691,316
	City and Internal Services	586,210
	Subtotal	8,236,151
	Cash Transfers:	
9100-590.8110	General Fund Admin. Support	643,812
9100-590.8110	HURF Admin. Support	118,789
	Benefits Reserve Fund	75,000
	Capital Outlays, Lease Purchase & Debt	631,200
	Storage Tank Restoration	300,000
	Upgrade Line from 6" to 8"	0
	Debt Service	0
	Contingency	600,000
		$10,604,952
	Miscellaneous	
9100-510.7979	Available for Appropriation	0
9100-510.7979	Operating Reserve	309,910
		309,910
	Total Operations Expenditures	$10,914,862

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
GENERAL INPUT SCHEDULE

FILE:	**Kingman2008**
SCHEDULE:	**INPUT**
DATE:	**10/22/2008**
RANGE:	**INPUT2**

4.		**System Expansion Fund**	**FY 2008-09**
4a.		**Revenue**	
	450.1010	Investment Fees - Inside	$550,000
	450.1012	Investment Fees - Outside	280,000
		Utility Line Payback	0
	420.1040	Hualapai Tank Fees	1,000
	420.2010	City Depreciation Fees	0
	420.2020	County Depreciation Fees	0
	450.1010	Water Investment Fees	0
	365.2020	Intergovernmental Services	0
		WIFA Loan Proceeds	11,047,151
	361.0100	Interest Earnings	100,000
	495.1010	Beginning Fund Balance	4,374,694
		Total	16,352,845
4b.		**Expenditures**	
	3520-590.9290	Misc. Projects	$0
		Professional Services	0
		Distribution Lines	0
	3520-590.9290	1.5 MG Storage Tank-Camelback Zone	0
		Booster Station Upgrades	0
		East bench 24" Transmission	6,975,000
		Boosters for Rattlesnake Tank	325,000
		Well Pumps & Motors for New Wells 10-11	0
		Water Infrastructure Upgrade	4,072,151
		Water 24" Ductile Iron Transmission	3,272,900
		Drill 2 Wells in Sacramento Basin	0
		Emergency Back up Power	85,000
		Co-Generation City Well #11	150,000
		Storage Tank - College Tank Farm	1,002,406
		Total Projects	15,882,457
		Transfers to:	
		KAT & Banks Airport ID	110,000
	9100-590.4610	Cash Transfer to Contingency	0
	3520-590.7910	Contingency	250,000
		Total Expenditures	16,242,457
		Ending Fund Balance	$110,388

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
GENERAL INPUT SCHEDULE

FILE: Kingman2008
SCHEDULE: INPUT
DATE: 10/22/2008
RANGE: INPUT3

5. Escalation Factors

ITEM	BUDGET YEAR FY 2008-09	PROJECTED FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
5a. General Inflation	0.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Depreciation Fees Escalation	0.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Revenue Escalation	0.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
CIP Inflation	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
5b. Interest Earnings on Cash Balance	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%

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6. POPULATION GROWTH

Area	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
City	**29,429**	30,583	31,722	32,848	33,960	35,058	36,141	37,208	38,261	39,295	40,312	41,311
Growth		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%	2.48%
Country Growth	**17,271**	17,575	17,875	18,171	18,463	18,752	19,037	19,317	19,594	19,866	20,134	20,396
		1.76%	1.71%	1.66%	1.61%	1.57%	1.52%	1.47%	1.43%	1.39%	1.35%	1.30%
General Plan Area	46,700	48,158	49,597	51,019	52,423	53,810	55,178	56,525	57,855	59,161	60,446	61,707
		3.12%	2.99%	2.87%	2.75%	2.65%	2.54%	2.44%	2.35%	2.26%	2.17%	2.09%

	BUDGET YEAR	PROJECTED									
	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
City Accounts											
Residential	10,017	10,410	10,797	11,181	11,559	11,933	12,302	12,665	13,023	13,375	13,721
Non-Residential	1,068	1,110	1,151	1,192	1,232	1,272	1,312	1,350	1,389	1,426	1,463
Irrigation	134	139	144	150	155	160	165	169	174	179	184
Subtotal	11,219	11,659	12,093	12,522	12,946	13,365	13,778	14,185	14,586	14,980	15,368
New City Accounts											
Residential		393	388	383	379	374	369	363	358	352	346
Non-Residential		42	41	41	40	40	39	39	38	38	37
Irrigation		5	5	5	5	5	5	5	5	5	5
Subtotal		440	434	429	424	419	413	407	401	394	388
Percent Change From Prior Year		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%
County Accounts											
Residential	7,065	7,189	7,312	7,433	7,552	7,670	7,787	7,902	8,015	8,126	8,236
Non-Residential	318	324	330	335	340	345	350	355	360	365	370
Irrigation	84	85	86	87	88	89	90	91	92	93	94
Subtotal	7,467	7,598	7,728	7,855	7,980	8,104	8,227	8,348	8,467	8,584	8,700
New County Accounts											
Residential		124	123	121	119	118	117	115	113	111	110
Non-Residential		6	6	5	5	5	5	5	5	5	5
Irrigation		1	1	1	1	1	1	1	1	1	1
Subtotal		131	130	127	125	124	123	121	119	117	116
Percent Change From prior Year		1.75%	1.71%	1.64%	1.59%	1.55%	1.52%	1.47%	1.43%	1.38%	1.35%
Total New Connections		571	564	556	549	543	536	528	520	511	504

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
TOTAL WATER FUND CASHFLOW
20-Year Plan

FILE: Kingman2008
SCHEDULE: TOTAL FUND
DATE: 10/22/2008
RANGE: TOTAL1

Line No.	DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenues											
1	City Service Revenue	$5,112,240	$6,122,262	$6,985,300	$7,667,244	$7,926,802	$8,183,093	$8,435,882	$8,684,937	$9,198,646	$9,447,238	$9,691,744
2	County Service Revenue	2,578,170	3,023,157	3,382,371	3,644,234	3,702,226	3,759,754	3,816,819	3,872,955	4,046,009	4,101,918	4,157,349
3	Connections Revenue	281,800	292,295	302,670	312,917	323,034	333,013	342,845	352,547	362,075	371,446	371,446
4	Fill Stands	9,200	9,543	9,881	10,216	10,546	10,872	11,193	11,510	11,821	12,127	12,127
5	Capital Renewal Fees	735,600	762,996	790,079	816,826	843,235	869,284	894,948	920,276	945,146	969,608	969,608
6	Delinquency & Check Fees	169,000	175,294	181,516	187,661	193,729	199,713	205,609	211,428	217,142	222,762	222,762
7	Permits, Leases, Misc.	73,885	76,637	79,357	82,043	84,696	87,312	89,890	92,434	94,932	97,389	97,389
8	Investment Fees	550,000	1,923,880	1,901,241	1,874,432	1,849,708	1,828,354	1,805,715	1,778,422	1,753,698	1,722,550	1,697,342
9	Hualapai Tank Fees	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
10	Interest Income	110,000	101,711	178,155	185,695	179,593	250,708	265,024	278,714	297,770	323,367	347,640
11	**Total Operating Revenues**	9,620,895	12,488,775	13,811,571	14,782,268	15,114,570	15,523,104	15,868,925	16,204,222	16,928,238	17,269,404	17,568,406
	Operating Expenditures											
12	Operations	8,236,151	8,483,236	8,737,733	8,999,865	9,269,861	9,547,956	9,834,395	10,129,427	10,433,310	10,746,309	11,068,698
13	Capital Outlays	631,200	650,136	669,640	689,729	710,421	731,734	753,686	776,296	799,585	823,573	848,280
14	Contingency	850,000	714,169	735,594	757,661	780,391	803,803	827,917	852,755	878,337	904,687	931,828
15	**Total Operating Expenditures**	9,717,351	9,847,540	10,142,966	10,447,255	10,760,673	11,083,493	11,415,998	11,758,478	12,111,232	12,474,569	12,848,806
16	**Revenue Available for Debt Service**	(96,456)	2,641,235	3,668,605	4,335,013	4,353,897	4,439,610	4,452,927	4,445,744	4,817,006	4,794,835	4,719,600
	Debt Service											
17	Existing Debt Service	0	0	0	0	0	0	0	0	0	0	0
18	New Debt Service	0	0	0	0	0	0	0	0	0	0	0
19	WIFA Loan Debt Service	0	0	986,933	986,933	1,600,300	1,600,300	1,600,300	1,600,300	1,600,300	1,600,300	1,600,300
20	**Total Debt Service**	0	0	986,933	986,933	1,600,300	1,600,300	1,600,300	1,600,300	1,600,300	1,600,300	1,600,300
21	***DSC Ratio***	**N/A**	**N/A**	**3.72**	**4.39**	**2.72**	**2.77**	**2.78**	**2.78**	**3.01**	**3.00**	**2.95**
22	**Income Available After All Debt Service**	(96,456)	2,641,235	2,681,672	3,348,080	2,753,597	2,839,310	2,852,627	2,845,444	3,216,706	3,194,535	3,119,300
	Other Cash Inflows/(Outflows)											
23	General Fund Admin. Support	(643,812)	(667,789)	(691,493)	(714,902)	(738,017)	(760,815)	(783,277)	(805,444)	(827,211)	(848,620)	(848,620)
24	HURF Admin. Support	(118,789)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)
25	Benefits Reserve Fund	(75,000)	(77,793)	(80,555)	(83,282)	(85,974)	(88,630)	(91,247)	(93,829)	(96,365)	(98,859)	(98,859)
26	Transfer In: Engineering Adm Support-from HURF	106,100	111,405	116,975	122,824	128,965	135,413	142,184	149,293	156,758	164,596	172,826
27	Transfer In: Engineering Adm Support-from Swr	507,395	532,765	559,403	587,373	616,742	647,579	679,958	713,955	749,653	787,136	826,493
28	Transfer In: Utility Billing - from Swr	150,000	157,500	165,375	173,644	182,326	191,442	201,014	211,065	221,618	232,699	244,334
29	Transfer In: Utility Billing Support - from Sanitary	150,000	157,500	165,375	173,644	182,326	191,442	201,014	211,065	221,618	232,699	244,334
30	Transfer To KAT & Banks Airport ID	(110,000)	0	0	0	0	0	0	0	0	0	0
31	CIP	(2,775,000)	(2,912,500)	(6,099,533)	(6,795,532)	(2,249,728)	(1,946,657)	(2,024,523)	(2,105,504)	(2,189,724)	(2,277,313)	(2,368,405)
32	Water Attorney Reserve	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)
33	WIFA Loan Proceeds	3,258,759	4,053,081	4,053,081	3,376,320	3,258,759	0	0	0	0	0	0
34	Bond Proceeds	0	0	0	0	0	0	0	0	0	0	0
35	Debt Service Reserve	0	0	(320,060)	(320,060)	(320,060)	(320,060)	(320,060)	0	0	0	0
36	**Total Other Cash Inflows/(Outflows)**	399,653	1,180,955	(2,304,645)	(3,653,184)	802,126	(2,123,498)	(2,168,149)	(1,892,611)	(1,936,865)	(1,980,875)	(2,001,111)
37	**Increase /(Decrease) in Cash Balance**	303,197	3,822,190	377,027	(305,104)	3,555,722	715,812	684,478	952,833	1,279,841	1,213,661	1,118,189
38	**Beginning of Year Cash Balance**	4,782,355	5,085,552	8,907,741	9,284,768	8,979,664	12,535,386	13,251,198	13,935,676	14,888,510	16,168,351	17,382,011
39	**End of Year Cash Balance**	$5,085,552	$8,907,741	$9,284,768	$8,979,664	$12,535,386	$13,251,198	$13,935,676	$14,888,510	$16,168,351	$17,382,011	$18,500,201
40	**Working Capital Percent**	52%	90%	92%	86%	116%	120%	122%	127%	133%	139%	144%

REDDAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
CASHFLOW - WATER OPERATIONS
20-Year Plan

FILE: Kingman2008
SCHEDULE: OPERATIONS
DATE: 10/22/2008
RANGE: OPS1

Line No.	DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenues											
1	City Service Revenue	$5,112,240	$6,122,262	$6,985,300	$7,667,244	$7,926,802	$8,183,093	$8,435,882	$8,684,937	$9,198,646	$9,447,238	$9,691,744
2	County Service Revenue	2,578,170	3,023,157	3,382,371	3,644,234	3,702,226	3,759,754	3,816,819	3,872,955	4,046,009	4,101,918	4,157,349
3	Connections Revenue	281,800	292,295	302,670	312,917	323,034	333,013	342,845	352,547	362,075	371,446	371,446
4	Fill Stands	9,200	9,543	9,881	10,216	10,546	10,872	11,193	11,510	11,821	12,127	12,127
5	Capital Renewal Fees	735,600	762,996	790,079	816,826	843,235	869,284	894,948	920,276	945,146	969,608	969,608
6	Delinquency & Check Fees	169,000	175,294	181,516	187,661	193,729	199,713	205,609	211,428	217,142	222,762	222,762
7	Permits, Leases, Misc.	73,885	76,637	79,357	82,043	84,696	87,312	89,890	92,434	94,932	97,389	97,389
8	Interest Income	10,000	14,890	56,242	75,852	58,757	70,893	65,654	60,024	57,627	62,021	65,480
9	**Total Operating Revenues**	8,969,895	10,477,074	11,787,417	12,796,993	13,143,026	13,513,935	13,862,841	14,206,111	14,933,397	15,284,508	15,587,903
	Operating Expenditures											
10	Operations	8,236,151	8,483,236	8,737,733	8,999,865	9,269,861	9,547,956	9,834,395	10,129,427	10,433,310	10,746,309	11,068,698
11	Capital Outlays	631,200	650,136	669,640	689,729	710,421	731,734	753,686	776,296	799,585	823,573	848,280
12	Contingency	600,000	456,669	470,369	484,480	499,014	513,985	529,404	545,286	561,645	578,494	595,849
13	**Total Operating Expenditures**	9,467,351	9,590,040	9,877,741	10,174,074	10,479,296	10,793,675	11,117,485	11,451,009	11,794,540	12,148,376	12,512,827
14	**Revenue Available for Debt Service**	(497,456)	887,034	1,909,676	2,622,919	2,663,730	2,720,261	2,745,356	2,755,102	3,138,858	3,136,132	3,075,076
	Debt Service											
15	Existing Debt Service	0	0	0	0	0	0	0	0	0	0	0
16	New Debt Service	0	0	0	0	0	0	0	0	0	0	0
17	WIFA Loan Debt Service	0	0	605,812	605,812	982,318	982,318	982,318	982,318	982,318	982,318	982,318
18	**Total Debt Service**	0	0	605,812	605,812	982,318	982,318	982,318	982,318	982,318	982,318	982,318
19	***DSC Ratio***	**N/A**	**N/A**	**3.15**	**4.33**	**2.71**	**2.77**	**2.79**	**2.80**	**3.20**	**3.19**	**3.13**
20	**Income Available After All Debt Service**	(497,456)	887,034	1,303,863	2,017,107	1,681,412	1,737,943	1,763,038	1,772,784	2,156,540	2,153,814	2,092,759
	Other Cash Inflows/(Outflows)											
21	General Fund Admin. Support	(643,812)	(667,789)	(691,493)	(714,902)	(738,017)	(760,815)	(783,277)	(805,444)	(827,211)	(848,620)	(848,620)
22	HURF Admin. Support	(118,789)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)
23	Benefits Reserve Fund	(75,000)	(77,793)	(80,555)	(83,282)	(85,974)	(88,630)	(91,247)	(93,829)	(96,365)	(98,859)	(98,859)
24	Transfer In: Engineering Adm Support-from HURF	106,100	111,405	116,975	122,824	128,965	135,413	142,184	149,293	156,758	164,596	172,826
25	Transfer In: Engineering Adm Support-from Swr	507,395	532,765	559,403	587,373	616,742	647,579	679,958	713,955	749,653	787,136	826,493
26	Transfer In: Utility Billing Support - from Sanitary	150,000	157,500	165,375	173,644	182,326	191,442	201,014	211,065	221,618	232,699	244,334
27	Transfer In: Utility Billing Support - from Sewer	150,000	157,500	165,375	173,644	182,326	191,442	201,014	211,065	221,618	232,699	244,334
28	Loans (To) Investment Fee Subfund	0	0	0	0	0	0	0	0	0	0	0
29	Loans From Investment Fee Subfund	0	0	0	0	0	0	0	0	0	0	0
30	Water Attorney Reserve	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)
31	WIFA Loan Proceeds - Water System Projects	1,258,424	1,565,165	1,565,165	1,303,822	1,258,424	0	0	0	0	0	0
32	Bond Proceeds	0	0	0	0	0	0	0	0	0	0	0
33	Debt Service Reserve	0	0	(196,464)	(196,464)	(196,464)	(196,464)	(196,464)	0	0	0	0
34	CIP	(450,000)	(425,000)	(1,753,908)	(4,065,303)	(2,249,728)	(1,946,657)	(2,024,523)	(2,105,504)	(2,189,724)	(2,277,313)	(2,368,405)
35	**Total Other Cash Inflows/(Outflows)**	834,318	1,180,538	(323,340)	(2,871,857)	(1,074,613)	(1,999,902)	(2,044,553)	(1,892,611)	(1,936,865)	(1,980,875)	(2,001,111)
36	**Increase /(Decrease) in Cash Balance**	336,862	2,067,572	980,523	(854,750)	606,799	(261,959)	(281,515)	(119,827)	219,675	172,940	91,648
37	**Beginning of Year Cash Balance**	407,661	744,523	2,812,095	3,792,618	2,937,868	3,544,667	3,282,708	3,001,194	2,881,367	3,101,042	3,273,982
38	**End of Year Cash Balance**	$744,523	$2,812,095	$3,792,618	$2,937,868	$3,544,667	$3,282,708	$3,001,194	$2,881,367	$3,101,042	$3,273,982	$3,365,630
39	**Working Capital Percent**	8%	29%	38%	29%	34%	30%	27%	25%	26%	27%	27%

REDDAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
CASHFLOW - WATER INVESTMENT FUND
20-Year Plan

FILE: Kingman2008
SCHEDULE: INVESTMENT
DATE: 10/22/2008
RANGE: INV_FEE1

Line No.	DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenue											
1	Investment Fees, City and County	$550,000	$1,923,880	$1,901,241	$1,874,432	$1,849,708	$1,828,354	$1,805,715	$1,778,422	$1,753,698	$1,722,550	$1,697,342
2	Hualapai Tank Fees	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
3	Interest Income	100,000	86,821	121,913	109,843	120,836	179,814	199,370	218,690	240,143	261,346	282,161
4	**Total Revenue**	651,000	2,011,701	2,024,154	1,985,275	1,971,544	2,009,168	2,006,085	1,998,111	1,994,840	1,984,897	1,980,503
	Contingency											
5	Contingency - Investment Fee Fund	250,000	257,500	265,225	273,182	281,377	289,819	298,513	307,468	316,693	326,193	335,979
6	**Total Contingency**	250,000	257,500	265,225	273,182	281,377	289,819	298,513	307,468	316,693	326,193	335,979
7	**Revenue Available for Debt Service**	401,000	1,754,201	1,758,929	1,712,094	1,690,167	1,719,350	1,707,572	1,690,643	1,678,148	1,658,703	1,644,524
	Debt Service											
8	Existing Debt Service	0	0	0	0	0	0	0	0	0	0	0
9	New Debt Service	0	0	0	0	0	0	0	0	0	0	0
10	WIFA Loan Debt Service	0	0	381,121	381,121	617,982	617,982	617,982	617,982	617,982	617,982	617,982
11	**Total Debt Service**	0	0	381,121	381,121	617,982	617,982	617,982	617,982	617,982	617,982	617,982
12	***DSC Ratio***	**N/A**	**N/A**	**4.62**	**4.49**	**2.73**	**2.78**	**2.76**	**2.74**	**2.72**	**2.68**	**2.66**
13	**Income Available After Debt Service**	401,000	1,754,201	1,377,809	1,330,973	1,072,185	1,101,367	1,089,589	1,072,660	1,060,165	1,040,721	1,026,541
	Other Cash Inflows/(Outflows)											
14	CIP	(2,325,000)	(2,487,500)	(4,345,625)	(2,730,229)	0	0	0	0	0	0	0
15	WIFA Loan Proceeds - Water System Projects	2,000,335	2,487,917	2,487,917	2,072,498	2,000,335	0	0	0	0	0	0
16	Bond Proceeds	0	0	0	0	0	0	0	0	0	0	0
17	Debt Service Reserve	0	0	(123,596)	(123,596)	(123,596)	(123,596)	(123,596)	0	0	0	0
18	Transfer To KAT & Banks Airport ID	(110,000)	0	0	0	0	0	0	0	0	0	0
19	Loans (To) Operations Subfund	0	0	0	0	0	0	0	0	0	0	0
19	Loans From Operations Subfund	0	0	0	0	0	0	0	0	0	0	0
20	**Total Other Cash Inflows/(Outflows)**	(434,665)	417	(1,981,305)	(781,327)	1,876,739	(123,596)	(123,596)	0	0	0	0
21	**Increase /(Decrease) in Cash Balance**	(33,665)	1,754,618	(603,496)	549,646	2,948,923	977,771	965,993	1,072,660	1,060,165	1,040,721	1,026,541
22	**Beginning of Year Cash Balance**	4,374,694	4,341,029	6,095,647	5,492,150	6,041,796	8,990,719	9,968,490	10,934,483	12,007,143	13,067,309	14,108,029
23	**End of Year Cash Balance**	$4,341,029	$6,095,647	$5,492,150	$6,041,796	$8,990,719	$9,968,490	$10,934,483	$12,007,143	$13,067,309	$14,108,029	$15,134,571

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
PROJECTED RATE REVENUE
20-Year Plan

FILE: Kingman2008
SCHEDULE: REVENUES
DATE: 10/22/2008
RANGE: REV1

DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
City											
Service Revenue	$4,868,800	5,355,680	6,122,262	6,985,300	7,667,244	7,926,802	8,183,093	8,435,882	8,684,937	9,198,646	9,447,238
Annual Growth	0	210,012	228,011	247,949	259,558	256,291	252,789	249,055	245,787	248,593	244,505
Rate Increase	243,440	556,569	635,027	433,995	0	0	0	0	267,922	0	0
Subtotal	5,112,240	6,122,262	6,985,300	7,667,244	7,926,802	8,183,093	8,435,882	8,684,937	9,198,646	9,447,238	9,691,744
Annualized Service Revenue	$5,355,680	$6,122,262	$6,985,300	$7,667,244	$7,926,802	$8,183,093	$8,435,882	$8,684,937	$9,198,646	$9,447,238	$9,691,744
County											
County Service Revenue	2,455,400	2,700,940	3,023,157	3,382,371	3,644,234	3,702,226	3,759,754	3,816,819	3,872,955	4,046,009	4,101,918
Annual Growth	0	47,385	51,726	55,585	57,992	57,528	57,064	56,137	55,209	55,909	55,431
Rate Increase	122,770	274,832	307,488	206,277	0	0	0	0	117,845	0	0
Subtotal	$2,578,170	$3,023,157	$3,382,371	$3,644,234	$3,702,226	$3,759,754	$3,816,819	$3,872,955	$4,046,009	$4,101,918	$4,157,349
Annualized Service Revenue	$2,700,940	$3,023,157	$3,382,371	$3,644,234	$3,702,226	$3,759,754	$3,816,819	$3,872,955	$4,046,009	$4,101,918	$4,157,349
Rate Increase Revenue	366,210	831,402	942,516	640,272	0	0	0	0	385,767	0	0
Annual Growth	0	257,397	279,736	303,534	317,551	313,819	309,854	305,191	300,996	304,502	299,937
Total	$7,690,410	$9,145,419	$10,367,671	$11,311,478	$11,629,028	$11,942,847	$12,252,701	$12,557,892	$13,244,654	$13,549,156	$13,849,093
Increase		19%	13%	9%	3%	3%	3%	2%	5%	2%	2%

PROJECTED DEVELOPMENT FEE REVENUE

DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	Projected FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	Projected FY 2016-17	FY 2017-18	FY 2018-19
Investment Fee	$1,200	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370
City Connections, ERUs		440	434	429	424	419	413	407	401	394	388
County Connections, ERUs		131	130	127	125	124	123	121	119	117	116
Subtotal ERUs		571	564	556	549	543	536	528	520	511	504

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
DEBT SERVICE RESERVE FUND
20-Year Plan

FILE: Kingman2008
SCHEDULE: RESERVES
DATE: 10/22/2008
RANGE: RESERVES1

DESCRIPTION	Projected										
	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Debt Service Reserve Requirement - Growth											
Existing Debt Issues	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Future Debt Issues - Growth											
FY 2008-09 Issues	0	0	0	0	0						
FY 2009-10 Issues		0	0	0	0	0					
FY 2010-11 Issues			123,596	123,596	123,596	123,596	123,596				
FY 2011-12 Issues				0	0	0	0	0			
FY 2012-13 Issues					0	0	0	0	0		
FY 2013-14 Issues						0	0	0	0	0	
FY 2014-15 Issues							0	0	0	0	0
FY 2015-16 Issues								0	0	0	0
FY 2016-17 Issues									0	0	0
FY 2017-18 Issues										0	0
FY 2018-19 Issues											0
New Debt Issues Reserve Requirement	0	0	123,596	123,596	123,596	123,596	123,596	0	0	0	0
Total Requirement - Expansion	0	0	123,596	247,193	370,789	494,386	617,982	617,982	617,982	617,982	617,982
Beginning Balance	0	0	0	123,596	247,193	370,789	494,386	617,982	617,982	617,982	617,982
Existing Debt Retirement	0	0	0	0	0	0	0	0	0	0	0
Required Contribution	$0	$0	$123,596	$123,596	$123,596	$123,596	$123,596	$0	$0	$0	$0
Debt Service Reserve Requirement - Non-Growth											
Future Debt Issues - Non-Growth											
FY 2008-09 Issues	$0	$0	$0	$0	$0						
FY 2009-10 Issues		0	0	0	0	0					
FY 2010-11 Issues			196,464	196,464	196,464	196,464	196,464				
FY 2011-12 Issues				0	0	0	0	0			
FY 2012-13 Issues					0	0	0	0	0		
FY 2013-14 Issues						0	0	0	0	0	
FY 2014-15 Issues							0	0	0	0	0
FY 2015-16 Issues								0	0	0	0
FY 2016-17 Issues									0	0	0
FY 2017-18 Issues										0	0
FY 2018-19 Issues											0
New Debt Issues Reserve Requirement	0	0	196,464	196,464	196,464	196,464	196,464	0	0	0	0
Total Requirement - Operations	0	0	196,464	392,927	589,391	785,854	982,318	982,318	982,318	982,318	982,318
Beginning Balance	0	0	0	196,464	392,927	589,391	785,854	982,318	982,318	982,318	982,318
Existing Debt Retirement	0	0	0	0	0	0	0	0	0	0	0
Required Contribution	0	0	196,464	196,464	196,464	196,464	196,464	0	0	0	0
Beginning of Year Cash Balance	$0	$0	$0	$320,060	$646,521	$979,512	$1,319,162	$1,665,605	$1,698,917	$1,732,896	$1,767,553
Transfers From Operations			196,464	196,464	196,464	196,464	196,464	0	0	0	0
Transfers From Expansion	0	0	123,596	123,596	123,596	123,596	123,596	0	0	0	0
Existing Debt Retirement	0	0	0	0	0	0	0	0	0	0	0
Interest	0	0	0	6,401	12,930	19,590	26,383	33,312	33,978	34,658	35,351
Increase /(Decrease) in Cash Balance	0	0	320,060	326,461	332,990	339,650	346,443	33,312	33,978	34,658	35,351
End of Year Cash Balance	$0	$0	$320,060	$646,521	$979,512	$1,319,162	$1,665,605	$1,698,917	$1,732,896	$1,767,553	$1,802,905

REDOAK CONSULTING

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Current $
20-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP1

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
East Bench 24-inch Transmission	100%	0%	$2,000,000	$2,487,500	$2,487,500	$0	$0	$0	$0	$0	$0	$0	$0	$6,975,000
24-inch D.I. Transmission Main Kino to Main Tanks	0%	100%	0	0	1,636,450	1,636,450	0	0	0	0	0	0	0	3,272,900
College Tank to Airport District/Waterline	100%	0%	0	0	688,580	0	0	0	0	0	0	0	0	688,580
Storage Tank - College Tank Farm	100%	0%	0	0	1,002,406	0	0	0	0	0	0	0	0	1,002,406
New Water Production Wells	100%	0%	0	0	0	2,524,250	0	0	0	0	0	0	0	2,524,250
New Scada System	0%	100%	0	75,000	0	0	0	0	0	0	0	0	0	75,000
Backhoe	0%	100%	95,000	0	0	0	0	0	0	0	0	0	0	95,000
6 yd Dump Truck	0%	100%	70,000	0	0	0	0	0	0	0	0	0	0	70,000
Fire Hydrant Replacement	0%	100%	50,000	50,000	50,000	50,000	0	0	0	0	0	0	0	200,000
Co-Generation for City Well #11	0%	100%	150,000	0	0	0	0	0	0	0	0	0	0	150,000
Storage Tank Restoration	0%	100%	0	300,000	0	0	0	0	0	0	0	0	0	300,000
Boosters for Rattlesnake Tank	100%	0%	325,000	0	0	0	0	0	0	0	0	0	0	325,000
Water Infrastructure Upgrade & Replacement	0%	100%	0	0	0	2,072,151	2,000,000	0	0	0	0	0	0	4,072,151
Emergency Backup Power	0%	100%	85,000	0	0	0	0	0	0	0	0	0	0	85,000
FUTURE CIP	0%	100%	0	0	0	0	0	1,664,010	1,664,010	1,664,010	1,664,010	1,664,010	1,664,010	9,984,061
Total			$2,775,000	$2,912,500	$5,864,936	$6,282,851	$2,000,000	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$29,819,348

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Inflated $
20-Year Plan

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
East Bench 24-inch Transmission	100%	0%	$2,000,000	$2,487,500	$2,587,000	$0	$0	$0	$0	$0	$0	$0	$0	$7,074,500
24-inch D.I. Transmission Main Kino to Main Tanks	0%	100%	0	0	1,701,908	1,769,984	0	0	0	0	0	0	0	3,471,892
College Tank to Airport District/Waterline	100%	0%	0	0	716,123	0	0	0	0	0	0	0	0	716,123
Storage Tank - College Tank Farm	100%	0%	0	0	1,042,502	0	0	0	0	0	0	0	0	1,042,502
New Water Production Wells	100%	0%	0	0	0	2,730,229	0	0	0	0	0	0	0	2,730,229
New Scada System	0%	100%	0	75,000	0	0	0	0	0	0	0	0	0	75,000
Backhoe	0%	100%	95,000	0	0	0	0	0	0	0	0	0	0	95,000
6 yd Dump Truck	0%	100%	70,000	0	0	0	0	0	0	0	0	0	0	70,000
Fire Hydrant Replacement	0%	100%	50,000	50,000	52,000	54,080	0	0	0	0	0	0	0	206,080
Co-Generation for City Well #11	0%	100%	150,000	0	0	0	0	0	0	0	0	0	0	150,000
Storage Tank Restoration	0%	100%	0	300,000	0	0	0	0	0	0	0	0	0	300,000
Boosters for Rattlesnake Tank	100%	0%	325,000	0	0	0	0	0	0	0	0	0	0	325,000
Water Infrastructure Upgrade & Replacement	0%	100%	0	0	0	2,241,239	2,249,728	0	0	0	0	0	0	4,490,967
Emergency Backup Power	0%	100%	85,000	0	0	0	0	0	0	0	0	0	0	85,000
FUTURE CIP	0%	100%	0	0	0	0	0	1,946,657	2,024,523	2,105,504	2,189,724	2,277,313	2,368,405	12,912,125
Total			$2,775,000	$2,912,500	$6,099,533	$6,795,532	$2,249,728	$1,946,657	$2,024,523	$2,105,504	$2,189,724	$2,277,313	$2,368,405	$33,744,418

REDOAK CONSULTING

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Current $
GROWTH
20-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP2

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
East Bench 24-inch Transmission	100%	0%	$2,000,000	$2,487,500	$2,487,500	$0	$0	$0	$0	$0	$0	$0	$0	$6,975,000
College Tank to Airport District/Waterline	100%	0%	0	0	688,580	0	0	0	0	0	0	0	0	688,580
Storage Tank - College Tank Farm	100%	0%	0	0	1,002,406	0	0	0	0	0	0	0	0	1,002,406
New Water Production Wells	100%	0%	0	0	0	2,524,250	0	0	0	0	0	0	0	2,524,250
Boosters for Rattlesnake Tank	100%	0%	325,000	0	0	0	0	0	0	0	0	0	0	325,000
Total			$2,325,000	$2,487,500	$4,178,486	$2,524,250	$0	$0	$0	$0	$0	$0	$0	$11,515,236

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Inflated $
GROWTH
20-Year Plan

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
East Bench 24-inch Transmission	100%	0%	$2,000,000	$2,487,500	$2,587,000	$0	$0	$0	$0	$0	$0	$0	$0	$7,074,500
College Tank to Airport District/Waterline	100%	0%	0	0	716,123	0	0	0	0	0	0	0	0	716,123
Storage Tank - College Tank Farm	100%	0%	0	0	1,042,502	0	0	0	0	0	0	0	0	1,042,502
New Water Production Wells	100%	0%	0	0	0	2,730,229	0	0	0	0	0	0	0	2,730,229
Boosters for Rattlesnake Tank	100%	0%	325,000	0	0	0	0	0	0	0	0	0	0	325,000
Total			$2,325,000	$2,487,500	$4,345,625	$2,730,229	$0	$0	$0	$0	$0	$0	$0	$11,888,354

REDOAK CONSULTING

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Current $
NON-GROWTH
20-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP3

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
24-inch D.I. Transmission Main Kino to Main Tanks	0%	100%	0	0	1,636,450	1,636,450	0	0	0	0	0	0	0	3,272,900
New Scada System	0%	100%	0	75,000	0	0	0	0	0	0	0	0	0	75,000
Backhoe	0%	100%	95,000	0	0	0	0	0	0	0	0	0	0	95,000
6 yd Dump Truck	0%	100%	70,000	0	0	0	0	0	0	0	0	0	0	70,000
Fire Hydrant Replacement	0%	100%	50,000	50,000	50,000	50,000	0	0	0	0	0	0	0	200,000
Co-Generation for City Well #11	0%	100%	150,000	0	0	0	0	0	0	0	0	0	0	150,000
Storage Tank Restoration	0%	100%	0	300,000	0	0	0	0	0	0	0	0	0	300,000
Water Infrastructure Upgrade & Replacement	0%	100%	0	0	0	2,072,151	2,000,000	0	0	0	0	0	0	4,072,151
Emergency Backup Power	0%	100%	85,000	0	0	0	0	0	0	0	0	0	0	85,000
FUTURE CIP	0%	100%	0	0	0	0	0	1,664,010	1,664,010	1,664,010	1,664,010	1,664,010	1,664,010	9,984,061
Total			$450,000	$425,000	$1,686,450	$3,758,601	$2,000,000	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$18,304,112

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Inflated $
NON-GROWTH
20-Year Plan

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
24-inch D.I. Transmission Main Kino to Main Tanks	0%	100%	0	0	1,701,908	1,769,984	0	0	0	0	0	0	0	3,471,892
New Scada System	0%	100%	0	75,000	0	0	0	0	0	0	0	0	0	75,000
Backhoe	0%	100%	95,000	0	0	0	0	0	0	0	0	0	0	95,000
6 yd Dump Truck	0%	100%	70,000	0	0	0	0	0	0	0	0	0	0	70,000
Fire Hydrant Replacement	0%	100%	50,000	50,000	52,000	54,080	0	0	0	0	0	0	0	206,080
Co-Generation for City Well #11	0%	100%	150,000	0	0	0	0	0	0	0	0	0	0	150,000
Storage Tank Restoration	0%	100%	0	300,000	0	0	0	0	0	0	0	0	0	300,000
Water Infrastructure Upgrade & Replacement	0%	100%	0	0	0	2,241,239	2,249,728	0	0	0	0	0	0	4,490,967
Emergency Backup Power	0%	100%	85,000	0	0	0	0	0	0	0	0	0	0	85,000
FUTURE CIP	0%	100%	0	0	0	0	0	1,946,657	2,024,523	2,105,504	2,189,724	2,277,313	2,368,405	12,912,125
Total			$450,000	$425,000	$1,753,908	$4,065,303	$2,249,728	$1,946,657	$2,024,523	$2,105,504	$2,189,724	$2,277,313	$2,368,405	$21,856,064

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
BOND SIZING - WATER FUND
WIFA Loan
20-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT1

DEBT SERVICE PAYMENT		BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
FY 2008-09	SERIES	$0	$0	$986,933	$986,933	$1,600,300	$1,600,300	$1,600,300	$1,600,300	$1,600,300	$1,600,300	$1,600,300
FY 2009-10	SERIES		0	0	0	0	0	0	0	0	0	0
FY 2010-11	SERIES			0	0	0	0	0	0	0	0	0
FY 2011-12	SERIES				0	0	0	0	0	0	0	0
FY 2012-13	SERIES					0	0	0	0	0	0	0
FY 2013-14	SERIES						0	0	0	0	0	0
FY 2014-15	SERIES							0	0	0	0	0
FY 2015-16	SERIES								0	0	0	0
FY 2016-17	SERIES									0	0	0
FY 2017-18	SERIES										0	0
FY 2018-19	SERIES											0
Total Proposed Debt Service		$0	$0	$986,933	$986,933	$1,600,300	$1,600,300	$1,600,300	$1,600,300	$1,600,300	$1,600,300	$1,600,300
Growth P&I	FY 2008-09	$0	$0	$381,121	$381,121	$617,982	$617,982	$617,982	$617,982	$617,982	$617,982	$617,982
	FY 2009-10		0	0	0	0	0	0	0	0	0	0
	FY 2010-11			0	0	0	0	0	0	0	0	0
	FY 2011-12				0	0	0	0	0	0	0	0
	FY 2012-13					0	0	0	0	0	0	0
	FY 2013-14						0	0	0	0	0	0
	FY 2014-15							0	0	0	0	0
	FY 2015-16								0	0	0	0
	FY 2016-17									0	0	0
	FY 2017-18										0	0
	FY 2018-19											0
Total Growth P&I		$0	$0	$381,121	$381,121	$617,982	$617,982	$617,982	$617,982	$617,982	$617,982	$617,982
Non-Growth P&I	FY 2008-09	$0	$0	$605,812	$605,812	$982,318	$982,318	$982,318	$982,318	$982,318	$982,318	$982,318
	FY 2009-10		0	0	0	0	0	0	0	0	0	0
	FY 2010-11			0	0	0	0	0	0	0	0	0
	FY 2011-12				0	0	0	0	0	0	0	0
	FY 2012-13					0	0	0	0	0	0	0
	FY 2013-14						0	0	0	0	0	0
	FY 2014-15							0	0	0	0	0
	FY 2015-16								0	0	0	0
	FY 2016-17									0	0	0
	FY 2017-18										0	0
	FY 2018-19											0
Total Non-Growth P&I			$0	$605,812	$605,812	$982,318	$982,318	$982,318	$982,318	$982,318	$982,318	$982,318
Growth Proceeds %		38.62%										
Non-Growth Proceeds %		61.38%										

REDDAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
INVESTMENT FEE CALCULATION
BUY-IN
20-Year Plan

FILE:	**Kingman2008**	
SCHEDULE:	**INV_FEE_CALC**	
DATE:	**10/22/2008**	
RANGE:	**INV_FEE_1**	

		Investment Fee Calculation
RCN Existing Assets		$101,142,493
NPV of Total Interest Payments		0
Total Value		$101,142,493
Average Day Demand	8,343,000	
Residential Billed Usage Per Month Per Account (2)	8,450	
Days Per Month	30.4	
Residential Usage Per Day	278	
Equivalent Residential Units (ERUs) Served	30,015	30,015
Investment Fee Per ERU		$3,369.73
Current Investment Fee		$1,200.00
Increase/ Decrease - $		$2,169.73
Increase/ Decrease - %		181%

REDOAK CONSULTING

City of Kingman
Water and Wastewater Rates and Investment Fee Study

Appendix B: Water 30-Year Debt Plan

REDOAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

5204-003 / DEN

CITY OF KINGMAN
WATER RATE STUDY
DECISION CRITERIA - WATER
30-Year Plan

FILE: Kingman2008
SCHEDULE: DECISIONS
DATE: 10/22/2008
RANGE: DECISIONS1

DESCRIPTION	Budget Year FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Revenue Increase - Overall	10.0%	10.0%	10.0%	2.0%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Effective Month of Increase	7	1	1	1	1	1	1	1	1	1	1
(effective 1st day of month: 1=July 12=June)											
Base Charge Component Increase (43% Increase)	$6.21	$6.83	$7.51	$7.66	$7.66	$8.04	$8.04	$8.04	$8.04	$8.04	$8.04
Capital Renewal Fee Component Increase (10% Increase)	3.34	3.68	4.05	4.13	4.13	4.33	4.33	4.33	4.33	4.33	4.33
Volume Charge Component Increase (5% Increase)	14.53	15.99	17.59	17.94	17.94	18.83	18.83	18.83	18.83	18.83	18.83
Monthly Residential Bill (Based on 8,450 Gallons)	$24.08	$26.49	$29.14	$29.72	$29.72	$31.21	$31.21	$31.21	$31.21	$31.21	$31.21
Investment Fee Increase	0.0%	180.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Single-Family Residential Fee	$1,200	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370
Bond/Loan Proceeds											
Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Investment Fee Subfund	0	0	0	0	0	0	0	0	0	0	0
WIFA Loan Proceeds	3,258,759	4,053,081	0	3,376,320	3,258,759	0	0	0	0	0	0
Total Fund	$3,258,759	$4,053,081	$0	$3,376,320	$3,258,759	$0	$0	$0	$0	$0	$0
Loans To Investment Fee Subfund											
From Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0	0	0	0
Loans To Operations Subfund											
From Investment Fee Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0	0	0	0
Working Capital Reserve - Operations Fund [1]	8%	29%	39%	25%	29%	29%	28%	29%	30%	30%	30%
Debt Service Coverage - Total Fund [2]	N/A	N/A	3.71	3.95	3.07	3.57	3.60	3.60	3.60	3.58	3.52
Reserve Balances - End of Year											
Operations Fund	744,523	2,812,095	3,831,603	2,589,768	2,990,712	3,081,547	3,163,098	3,376,775	3,553,981	3,677,801	3,713,634
Investment Fee Fund	4,341,029	6,095,647	5,516,676	6,091,337	9,192,198	10,324,944	11,449,013	12,657,752	13,856,719	15,039,017	16,209,966
Reserves Fund	0	0	254,913	514,924	780,136	1,050,651	1,326,577	1,353,109	1,380,171	1,407,775	1,435,930
Total Fund	$5,085,552	$8,907,741	$9,603,191	$9,196,030	$12,963,045	$14,457,143	$15,938,688	$17,387,636	$18,790,871	$20,124,593	$21,359,530
CIP Funded by Debt											
Cumulative Bonds/Loans	$3,258,759	$7,311,840	$7,311,840	$10,688,160	$13,946,919	$13,946,919	$13,946,919	$13,946,919	$13,946,919	$13,946,919	$13,946,919
Cumulative % of CIP Funded by Debt	117.4%	128.6%	62.0%	57.5%	66.9%	61.2%	56.2%	51.8%	47.9%	44.5%	41.3%
Capital Improvement Plan	$2,775,000	$2,912,500	$6,099,533	$6,795,532	$2,249,728	$1,946,657	$2,024,523	$2,105,504	$2,189,724	$2,277,313	$2,368,405
Cumulative CIP Amount	$2,775,000	$5,687,500	$11,787,033	$18,582,565	$20,832,293	$22,778,950	$24,803,472	$26,908,976	$29,098,700	$31,376,013	$33,744,418

[1] Target reserve: 25% Working Capital Reserve as a percent of Operating Expenditures
[2] Revenue Bond debt service coverage target: 1.33

REDDAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

CITY OF KINGMAN
WATER RATE STUDY
GENERAL INPUT SCHEDULE

FILE:	**Kingman2008**
SCHEDULE:	**INPUT**
DATE:	**10/22/2008**
RANGE:	**INPUT1**

1. General Model Parameters

FILE:	**Kingman2008**	
Enter Base Year (fiscal year)	**2008**	**FY 2007-08**

2. Operating Revenue

		FY 2008-09
410.1010	City Residential Water Service	$3,208,700
410.1020	City Commercial Water Service	1,660,100
410.1090	Fill Stands	9,200
410.2010	County Residential Water Service	2,148,600
410.2020	County Commercial Water Service	306,800
470.1010	City Capital Renewal Fees	735,600
	County Capital Renewal Fees	0
430.1010	City New Meter Connections	130,000
430.2010	County New Meter Connections	91,000
440.1010	City Connections	30,000
440.1020	Other Connection Fees	0
440.2010	County Connections	30,800
440.9090	Delinquent Notice Fees	115,000
440.9091	Delinquent Disconnect Fees	45,000
440.9092	Special Service Calls	3,000
490.1011	Project Bid Plans	1,000
490.1012	Returned Check Fee	5,000
490.1020	Johnson Canyon Well Lease	3,885
490.1030	Right of Way Permits	20,000
490.1050	Utility Line Payback	0
490.1015	Engineering Fees	25,000
490.1080	Bad Debt Recovery	0
490.1090	Unclassified Revenues	25,000
361.0100	Interest Income	10,000
	Transfer From Other Sources	0
494.102	Engineering Adm Support-from HURF	106,100
494.102	Engineering Adm Support-from Swr	507,395
	Beginning Fund Balance	407,661
	Total	$9,624,841

3. Operating Expenditures

		FY 2008-09
	Personnel Expenses	$3,145,514
	Supplies & Services	2,813,111
	Engineering Dept. Service Costs	1,691,316
	City and Internal Services	586,210
	Subtotal	8,236,151
	Cash Transfers:	
9100-590.8110	General Fund Admin. Support	643,812
9100-590.8110	HURF Admin. Support	118,789
	Benefits Reserve Fund	75,000
	Capital Outlays, Lease Purchase & Debt	631,200
	Storage Tank Restoration	300,000
	Upgrade Line from 6" to 8"	0
	Debt Service	0
	Contingency	600,000
		$10,604,952
	Miscellaneous	
9100-510.7979	Available for Appropriation	0
9100-510.7979	Operating Reserve	309,910
		309,910
	Total Operations Expenditures	$10,914,862

REDDAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
GENERAL INPUT SCHEDULE

FILE:	**Kingman2008**
SCHEDULE:	**INPUT**
DATE:	**10/22/2008**
RANGE:	**INPUT2**

4.		**System Expansion Fund**	**FY 2008-09**
4a.		**Revenue**	
	450.1010	Investment Fees - Inside	$550,000
	450.1012	Investment Fees - Outside	280,000
		Utility Line Payback	0
	420.1040	Hualapai Tank Fees	1,000
	420.2010	City Depreciation Fees	0
	420.2020	County Depreciation Fees	0
	450.1010	Water Investment Fees	0
	365.2020	Intergovernmental Services	0
		WIFA Loan Proceeds	11,047,151
	361.0100	Interest Earnings	100,000
	495.1010	Beginning Fund Balance	4,374,694
		Total	16,352,845
4b.		**Expenditures**	
	3520-590.9290	Misc. Projects	$0
		Professional Services	0
		Distribution Lines	0
	3520-590.9290	1.5 MG Storage Tank-Camelback Zone	0
		Booster Station Upgrades	0
		East bench 24" Transmission	6,975,000
		Boosters for Rattlesnake Tank	325,000
		Well Pumps & Motors for New Wells 10-11	0
		Water Infrastructure Upgrade	4,072,151
		Water 24" Ductile Iron Transmission	3,272,900
		Drill 2 Wells in Sacramento Basin	0
		Emergency Back up Power	85,000
		Co-Generation City Well #11	150,000
		Storage Tank - College Tank Farm	1,002,406
		Total Projects	15,882,457
		Transfers to:	
		KAT & Banks Airport ID	110,000
	9100-590.4610	Cash Transfer to Contingency	0
	3520-590.7910	Contingency	250,000
		Total Expenditures	16,242,457
		Ending Fund Balance	$110,388

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
GENERAL INPUT SCHEDULE

FILE:	Kingman2008
SCHEDULE:	INPUT
DATE:	10/22/2008
RANGE:	INPUT3

5. Escalation Factors

ITEM	BUDGET YEAR FY 2008-09	PROJECTED FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
5a. General Inflation	0.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Depreciation Fees Escalation	0.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Revenue Escalation	0.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
CIP Inflation	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
5b. Interest Earnings on Cash Balance	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%

6. POPULATION GROWTH

Area	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
City	**29,429**	30,583	31,722	32,848	33,960	35,058	36,141	37,208	38,261	39,295	40,312	41,311
Growth		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%	2.48%
Country Growth	**17,271**	17,575	17,875	18,171	18,463	18,752	19,037	19,317	19,594	19,866	20,134	20,396
		1.76%	1.71%	1.66%	1.61%	1.57%	1.52%	1.47%	1.43%	1.39%	1.35%	1.30%
General Plan Area	46,700	48,158	49,597	51,019	52,423	53,810	55,178	56,525	57,855	59,161	60,446	61,707
		3.12%	2.99%	2.87%	2.75%	2.65%	2.54%	2.44%	2.35%	2.26%	2.17%	2.09%

	BUDGET YEAR	PROJECTED									
	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
City Accounts											
Residential	10,017	10,410	10,797	11,181	11,559	11,933	12,302	12,665	13,023	13,375	13,721
Non-Residential	1,068	1,110	1,151	1,192	1,232	1,272	1,312	1,350	1,389	1,426	1,463
Irrigation	134	139	144	150	155	160	165	169	174	179	184
Subtotal	11,219	11,659	12,093	12,522	12,946	13,365	13,778	14,185	14,586	14,980	15,368
New City Accounts											
Residential		393	388	383	379	374	369	363	358	352	346
Non-Residential		42	41	41	40	40	39	39	38	38	37
Irrigation		5	5	5	5	5	5	5	5	5	5
Subtotal		440	434	429	424	419	413	407	401	394	388
Percent Change From Prior Year		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%
County Accounts											
Residential	7,065	7,189	7,312	7,433	7,552	7,670	7,787	7,902	8,015	8,126	8,236
Non-Residential	318	324	330	335	340	345	350	355	360	365	370
Irrigation	84	85	86	87	88	89	90	91	92	93	94
Subtotal	7,467	7,598	7,728	7,855	7,980	8,104	8,227	8,348	8,467	8,584	8,700
New County Accounts											
Residential		124	123	121	119	118	117	115	113	111	110
Non-Residential		6	6	5	5	5	5	5	5	5	5
Irrigation		1	1	1	1	1	1	1	1	1	1
Subtotal		131	130	127	125	124	123	121	119	117	116
Percent Change From prior Year		1.75%	1.71%	1.64%	1.59%	1.55%	1.52%	1.47%	1.43%	1.38%	1.35%
Total New Connections		571	564	556	549	543	536	528	520	511	504

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
TOTAL WATER FUND CASHFLOW
30-Year Plan

FILE: Kingman2008
SCHEDULE: TOTAL FUND
DATE: 10/22/2008
RANGE: TOTAL1

Line No.	DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenues											
1	City Service Revenue	$5,112,240	$6,122,262	$6,985,300	$7,377,914	$7,627,678	$8,268,012	$8,523,425	$8,775,064	$9,023,401	$9,267,258	$9,507,105
2	County Service Revenue	2,578,170	3,023,157	3,382,371	3,506,715	3,562,519	3,798,771	3,856,427	3,913,146	3,968,928	4,023,772	4,078,147
3	Connections Revenue	281,800	292,295	302,670	312,917	323,034	333,013	342,845	352,547	362,075	371,446	371,446
4	Fill Stands	9,200	9,543	9,881	10,216	10,546	10,872	11,193	11,510	11,821	12,127	12,127
5	Capital Renewal Fees	735,600	762,996	790,079	816,826	843,235	869,284	894,948	920,276	945,146	969,608	969,608
6	Delinquency & Check Fees	169,000	175,294	181,516	187,661	193,729	199,713	205,609	211,428	217,142	222,762	222,762
7	Permits, Leases, Misc.	73,885	76,637	79,357	82,043	84,696	87,312	89,890	92,434	94,932	97,389	97,389
8	Investment Fees	550,000	1,923,880	1,901,241	1,874,432	1,849,708	1,828,354	1,805,715	1,778,422	1,753,698	1,722,550	1,697,342
9	Hualapai Tank Fees	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
10	Interest Income	110,000	101,711	178,155	186,966	173,622	243,658	268,130	292,242	320,691	348,214	374,336
11	**Total Operating Revenues**	9,620,895	12,488,775	13,811,571	14,356,690	14,669,767	15,639,989	15,999,182	16,348,069	16,698,833	17,036,125	17,331,262
	Operating Expenditures											
12	Operations	8,236,151	8,483,236	8,737,733	8,999,865	9,269,861	9,547,956	9,834,395	10,129,427	10,433,310	10,746,309	11,068,698
13	Capital Outlays	631,200	650,136	669,640	689,729	710,421	731,734	753,686	776,296	799,585	823,573	848,280
14	Contingency	850,000	714,169	735,594	757,661	780,391	803,803	827,917	852,755	878,337	904,687	931,828
15	**Total Operating Expenditures**	9,717,351	9,847,540	10,142,966	10,447,255	10,760,673	11,083,493	11,415,998	11,758,478	12,111,232	12,474,569	12,848,806
16	**Revenue Available for Debt Service**	(96,456)	2,641,235	3,668,605	3,909,434	3,909,094	4,556,496	4,583,184	4,589,591	4,587,601	4,561,556	4,482,455
	Debt Service											
17	Existing Debt Service	0	0	0	0	0	0	0	0	0	0	0
18	New Debt Service	0	0	0	0	0	0	0	0	0	0	0
19	WIFA Loan Debt Service	0	0	988,570	988,570	1,274,563	1,274,563	1,274,563	1,274,563	1,274,563	1,274,563	1,274,563
20	**Total Debt Service**	0	0	988,570	988,570	1,274,563	1,274,563	1,274,563	1,274,563	1,274,563	1,274,563	1,274,563
21	***DSC Ratio***	**N/A**	**N/A**	**3.71**	**3.95**	**3.07**	**3.57**	**3.60**	**3.60**	**3.60**	**3.58**	**3.52**
22	**Income Available After All Debt Service**	(96,456)	2,641,235	2,680,035	2,920,864	2,634,531	3,281,933	3,308,621	3,315,028	3,313,038	3,286,993	3,207,892
	Other Cash Inflows/(Outflows)											
23	General Fund Admin. Support	(643,812)	(667,789)	(691,493)	(714,902)	(738,017)	(760,815)	(783,277)	(805,444)	(827,211)	(848,620)	(848,620)
24	HURF Admin. Support	(118,789)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)
25	Benefits Reserve Fund	(75,000)	(77,793)	(80,555)	(83,282)	(85,974)	(88,630)	(91,247)	(93,829)	(96,365)	(98,859)	(98,859)
26	Transfer In: Engineering Adm Support-from HURF	106,100	111,405	116,975	122,824	128,965	135,413	142,184	149,293	156,758	164,596	172,826
27	Transfer In: Engineering Adm Support-from Swr	507,395	532,765	559,403	587,373	616,742	647,579	679,958	713,955	749,653	787,136	826,493
28	Transfer In: Utility Billing - from Swr	150,000	157,500	165,375	173,644	182,326	191,442	201,014	211,065	221,618	232,699	244,334
29	Transfer In: Utility Billing Support - from Sanitary	150,000	157,500	165,375	173,644	182,326	191,442	201,014	211,065	221,618	232,699	244,334
30	Transfer To KAT & Banks Airport ID	(110,000)	0	0	0	0	0	0	0	0	0	0
31	CIP	(2,775,000)	(2,912,500)	(6,099,533)	(6,795,532)	(2,249,728)	(1,946,657)	(2,024,523)	(2,105,504)	(2,189,724)	(2,277,313)	(2,368,405)
32	Water Attorney Reserve	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)
33	WIFA Loan Proceeds	3,258,759	4,053,081	4,053,081	3,376,320	3,258,759	0	0	0	0	0	0
34	Bond Proceeds	0	0	0	0	0	0	0	0	0	0	0
35	Debt Service Reserve	0	0	(254,913)	(254,913)	(254,913)	(254,913)	(254,913)	0	0	0	0
36	**Total Other Cash Inflows/(Outflows)**	399,653	1,180,955	(2,239,498)	(3,588,037)	867,273	(2,058,351)	(2,103,002)	(1,892,611)	(1,936,865)	(1,980,875)	(2,001,111)
37	**Total Expenditures & Outflows**	13,254,952	13,551,043	17,057,206	18,080,902	13,871,631	13,914,178	14,347,011	14,792,639	15,251,380	15,723,715	16,189,045
38	**Increase /(Decrease) in Cash Balance**	303,197	3,822,190	440,537	(667,172)	3,501,804	1,223,582	1,205,619	1,422,417	1,376,173	1,306,118	1,206,782
39	**Beginning of Year Cash Balance**	4,782,355	5,085,552	8,907,741	9,348,278	8,681,106	12,182,910	13,406,491	14,612,110	16,034,527	17,410,700	18,716,818
40	**End of Year Cash Balance**	$5,085,552	$8,907,741	$9,348,278	$8,681,106	$12,182,910	$13,406,491	$14,612,110	$16,034,527	$17,410,700	$18,716,818	$19,923,600
41	**Working Capital Percent**	52%	90%	92%	83%	113%	121%	128%	136%	144%	150%	155%

REDDAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
CASHFLOW - WATER OPERATIONS
30-Year Plan

FILE: Kingman2008
SCHEDULE: OPERATIONS
DATE: 10/22/2008
RANGE: OPS1

Line No.	DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenues											
1	City Service Revenue	$5,112,240	$6,122,262	$6,985,300	$7,377,914	$7,627,678	$8,268,012	$8,523,425	$8,775,064	$9,023,401	$9,267,258	$9,507,105
2	County Service Revenue	2,578,170	3,023,157	3,382,371	3,506,715	3,562,519	3,798,771	3,856,427	3,913,146	3,968,928	4,023,772	4,078,147
3	Connections Revenue	281,800	292,295	302,670	312,917	323,034	333,013	342,845	352,547	362,075	371,446	371,446
4	Fill Stands	9,200	9,543	9,881	10,216	10,546	10,872	11,193	11,510	11,821	12,127	12,127
5	Capital Renewal Fees	735,600	762,996	790,079	816,826	843,235	869,284	894,948	920,276	945,146	969,608	969,608
6	Delinquency & Check Fees	169,000	175,294	181,516	187,661	193,729	199,713	205,609	211,428	217,142	222,762	222,762
7	Permits, Leases, Misc.	73,885	76,637	79,357	82,043	84,696	87,312	89,890	92,434	94,932	97,389	97,389
8	Interest Income	10,000	14,890	56,242	76,632	51,795	59,814	61,631	63,262	67,535	71,080	73,556
9	**Total Operating Revenues**	8,969,895	10,477,074	11,787,417	12,370,924	12,697,232	13,626,791	13,985,968	14,339,667	14,690,980	15,035,440	15,332,139
	Operating Expenditures											
10	Operations	8,236,151	8,483,236	8,737,733	8,999,865	9,269,861	9,547,956	9,834,395	10,129,427	10,433,310	10,746,309	11,068,698
11	Capital Outlays	631,200	650,136	669,640	689,729	710,421	731,734	753,686	776,296	799,585	823,573	848,280
12	Contingency	600,000	456,669	470,369	484,480	499,014	513,985	529,404	545,286	561,645	578,494	595,849
13	**Total Operating Expenditures**	9,467,351	9,590,040	9,877,741	10,174,074	10,479,296	10,793,675	11,117,485	11,451,009	11,794,540	12,148,376	12,512,827
14	**Revenue Available for Debt Service**	(497,456)	887,034	1,909,676	2,196,850	2,217,937	2,833,117	2,868,483	2,888,657	2,896,441	2,887,064	2,819,312
	Debt Service											
15	Existing Debt Service	0	0	0	0	0	0	0	0	0	0	0
16	New Debt Service	0	0	0	0	0	0	0	0	0	0	0
17	WIFA Loan Debt Service	0	0	606,817	606,817	782,369	782,369	782,369	782,369	782,369	782,369	782,369
18	**Total Debt Service**	0	0	606,817	606,817	782,369	782,369	782,369	782,369	782,369	782,369	782,369
19	***DSC Ratio***	**N/A**	**N/A**	**3.15**	**3.62**	**2.83**	**3.62**	**3.67**	**3.69**	**3.70**	**3.69**	**3.60**
20	**Income Available After All Debt Service**	(497,456)	887,034	1,302,858	1,590,033	1,435,567	2,050,747	2,086,114	2,106,288	2,114,071	2,104,695	2,036,943
	Other Cash Inflows/(Outflows)											
21	General Fund Admin. Support	(643,812)	(667,789)	(691,493)	(714,902)	(738,017)	(760,815)	(783,277)	(805,444)	(827,211)	(848,620)	(848,620)
22	HURF Admin. Support	(118,789)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)	(123,213)
23	Benefits Reserve Fund	(75,000)	(77,793)	(80,555)	(83,282)	(85,974)	(88,630)	(91,247)	(93,829)	(96,365)	(98,859)	(98,859)
24	Transfer In: Engineering Adm Support-from HURF	106,100	111,405	116,975	122,824	128,965	135,413	142,184	149,293	156,758	164,596	172,826
25	Transfer In: Engineering Adm Support-from Swr	507,395	532,765	559,403	587,373	616,742	647,579	679,958	713,955	749,653	787,136	826,493
26	Transfer In: Utility Billing Support - from Sanitary	150,000	157,500	165,375	173,644	182,326	191,442	201,014	211,065	221,618	232,699	244,334
27	Transfer In: Utility Billing Support - from Sewer	150,000	157,500	165,375	173,644	182,326	191,442	201,014	211,065	221,618	232,699	244,334
28	Loans (To) Investment Fee Subfund	0	0	0	0	0	0	0	0	0	0	0
29	Loans From Investment Fee Subfund	0	0	0	0	0	0	0	0	0	0	0
30	Water Attorney Reserve	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)
31	WIFA Loan Proceeds - Water System Projects	1,258,424	1,565,165	1,565,165	1,303,822	1,258,424	0	0	0	0	0	0
32	Bond Proceeds	0	0	0	0	0	0	0	0	0	0	0
33	Debt Service Reserve	0	0	(156,474)	(156,474)	(156,474)	(156,474)	(156,474)	0	0	0	0
34	CIP	(450,000)	(425,000)	(1,753,908)	(4,065,303)	(2,249,728)	(1,946,657)	(2,024,523)	(2,105,504)	(2,189,724)	(2,277,313)	(2,368,405)
35	**Total Other Cash Inflows/(Outflows)**	834,318	1,180,538	(283,350)	(2,831,867)	(1,034,624)	(1,959,912)	(2,004,563)	(1,892,611)	(1,936,865)	(1,980,875)	(2,001,111)
36	**Total Expenditures & Outflows**	10,679,952	10,806,043	12,446,356	15,077,492	13,590,253	13,624,359	14,048,498	14,485,170	14,934,688	15,397,522	15,853,066
37	**Increase /(Decrease) in Cash Balance**	336,862	2,067,572	1,019,508	(1,241,834)	400,944	90,835	81,551	213,677	177,206	123,820	35,832
38	**Beginning of Year Cash Balance**	407,661	744,523	2,812,095	3,831,603	2,589,768	2,990,712	3,081,547	3,163,098	3,376,775	3,553,981	3,677,801
39	**End of Year Cash Balance**	$744,523	$2,812,095	$3,831,603	$2,589,768	$2,990,712	$3,081,547	$3,163,098	$3,376,775	$3,553,981	$3,677,801	$3,713,634
40	**Working Capital Percent**	8%	29%	39%	25%	29%	29%	28%	29%	30%	30%	30%

REDDAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
CASHFLOW - WATER INVESTMENT FUND
30-Year Plan

FILE: Kingman2008
SCHEDULE: INVESTMENT
DATE: 10/22/2008
RANGE: INV_FEE1

Line No.	DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenue											
1	Investment Fees, City and County	$550,000	$1,923,880	$1,901,241	$1,874,432	$1,849,708	$1,828,354	$1,805,715	$1,778,422	$1,753,698	$1,722,550	$1,697,342
2	Hualapai Tank Fees	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
3	Interest Income	100,000	86,821	121,913	110,334	121,827	183,844	206,499	228,980	253,155	277,134	300,780
4	**Total Revenue**	651,000	2,011,701	2,024,154	1,985,766	1,972,535	2,013,198	2,013,214	2,008,402	2,007,853	2,000,685	1,999,123
	Contingency											
5	Contingency - Investment Fee Fund	250,000	257,500	265,225	273,182	281,377	289,819	298,513	307,468	316,693	326,193	335,979
6	**Total Contingency**	250,000	257,500	265,225	273,182	281,377	289,819	298,513	307,468	316,693	326,193	335,979
7	**Revenue Available for Debt Service**	401,000	1,754,201	1,758,929	1,712,584	1,691,158	1,723,379	1,714,701	1,700,933	1,691,160	1,674,491	1,663,143
	Debt Service											
8	Existing Debt Service	0	0	0	0	0	0	0	0	0	0	0
9	New Debt Service	0	0	0	0	0	0	0	0	0	0	0
10	WIFA Loan Debt Service	0	0	381,753	381,753	492,194	492,194	492,194	492,194	492,194	492,194	492,194
11	**Total Debt Service**	0	0	381,753	381,753	492,194	492,194	492,194	492,194	492,194	492,194	492,194
12	***DSC Ratio***	**N/A**	**N/A**	**4.61**	**4.49**	**3.44**	**3.50**	**3.48**	**3.46**	**3.44**	**3.40**	**3.38**
13	**Income Available After Debt Service**	401,000	1,754,201	1,377,177	1,330,831	1,198,964	1,231,186	1,222,507	1,208,740	1,198,966	1,182,298	1,170,950
	Other Cash Inflows/(Outflows)											
14	CIP	(2,325,000)	(2,487,500)	(4,345,625)	(2,730,229)	0	0	0	0	0	0	0
15	WIFA Loan Proceeds - Water System Projects	2,000,335	2,487,917	2,487,917	2,072,498	2,000,335	0	0	0	0	0	0
16	Bond Proceeds	0	0	0	0	0	0	0	0	0	0	0
17	Debt Service Reserve	0	0	(98,439)	(98,439)	(98,439)	(98,439)	(98,439)	0	0	0	0
18	Transfer To KAT & Banks Airport ID	(110,000)	0	0	0	0	0	0	0	0	0	0
19	Loans (To) Operations Subfund	0	0	0	0	0	0	0	0	0	0	0
19	Loans From Operations Subfund	0	0	0	0	0	0	0	0	0	0	0
20	**Total Other Cash Inflows/(Outflows)**	(434,665)	417	(1,956,148)	(756,170)	1,901,896	(98,439)	(98,439)	0	0	0	0
21	**Increase /(Decrease) in Cash Balance**	(33,665)	1,754,618	(578,971)	574,662	3,100,860	1,132,747	1,124,068	1,208,740	1,198,966	1,182,298	1,170,950
22	**Beginning of Year Cash Balance**	4,374,694	4,341,029	6,095,647	5,516,676	6,091,337	9,192,198	10,324,944	11,449,013	12,657,752	13,856,719	15,039,017
23	**End of Year Cash Balance**	$4,341,029	$6,095,647	$5,516,676	$6,091,337	$9,192,198	$10,324,944	$11,449,013	$12,657,752	$13,856,719	$15,039,017	$16,209,966

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
PROJECTED RATE REVENUE
30-Year Plan

FILE: Kingman2008
SCHEDULE: REVENUES
DATE: 10/22/2008
RANGE: REV1

DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
City											
Service Revenue	$4,868,800	5,355,680	6,122,262	6,985,300	7,377,914	7,627,678	8,268,012	8,523,425	8,775,064	9,023,401	9,267,258
Annual Growth	0	210,012	228,011	247,949	249,764	246,619	255,413	251,639	248,338	243,857	239,847
Rate Increase	243,440	556,569	635,027	144,665	0	393,715	0	0	0	0	0
Subtotal	5,112,240	6,122,262	6,985,300	7,377,914	7,627,678	8,268,012	8,523,425	8,775,064	9,023,401	9,267,258	9,507,105
Annualized Service Revenue	$5,355,680	$6,122,262	$6,985,300	$7,377,914	$7,627,678	$8,268,012	$8,523,425	$8,775,064	$9,023,401	$9,267,258	$9,507,105
County											
County Service Revenue	2,455,400	2,700,940	3,023,157	3,382,371	3,506,715	3,562,519	3,798,771	3,856,427	3,913,146	3,968,928	4,023,772
Annual Growth	0	47,385	51,726	55,585	55,804	55,357	57,657	56,719	55,782	54,844	54,375
Rate Increase	122,770	274,832	307,488	68,759	0	180,894	0	0	0	0	0
Subtotal	$2,578,170	$3,023,157	$3,382,371	$3,506,715	$3,562,519	$3,798,771	$3,856,427	$3,913,146	$3,968,928	$4,023,772	$4,078,147
Annualized Service Revenue	$2,700,940	$3,023,157	$3,382,371	$3,506,715	$3,562,519	$3,798,771	$3,856,427	$3,913,146	$3,968,928	$4,023,772	$4,078,147
Rate Increase Revenue	366,210	831,402	942,516	213,424	0	574,609	0	0	0	0	0
Annual Growth	0	257,397	279,736	303,534	305,568	301,977	313,069	308,358	304,119	298,701	294,223
Total	$7,690,410	$9,145,419	$10,367,671	$10,884,629	$11,190,197	$12,066,782	$12,379,852	$12,688,210	$12,992,329	$13,291,030	$13,585,252
Increase		19%	13%	5%	3%	8%	3%	2%	2%	2%	2%

PROJECTED DEVELOPMENT FEE REVENUE

DESCRIPTION	BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	Projected FY 2012-13	FY 2013-14	FY 2014-15	Projected FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Investment Fee	$1,200	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370	$3,370
City Connections, ERUs		440	434	429	424	419	413	407	401	394	388
County Connections, ERUs		131	130	127	125	124	123	121	119	117	116
Subtotal ERUs		571	564	556	549	543	536	528	520	511	504

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
DEBT SERVICE RESERVE FUND
30-Year Plan

FILE: Kingman2008
SCHEDULE: RESERVES
DATE: 10/22/2008
RANGE: RESERVES1

DESCRIPTION	Projected										
	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Debt Service Reserve Requirement - Growth											
Existing Debt Issues	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Future Debt Issues - Growth											
FY 2008-09 Issues	0	0	0	0	0						
FY 2009-10 Issues		0	0	0	0	0					
FY 2010-11 Issues			98,439	98,439	98,439	98,439	98,439				
FY 2011-12 Issues				0	0	0	0	0			
FY 2012-13 Issues					0	0	0	0	0		
FY 2013-14 Issues						0	0	0	0	0	
FY 2014-15 Issues							0	0	0	0	0
FY 2015-16 Issues								0	0	0	0
FY 2016-17 Issues									0	0	0
FY 2017-18 Issues										0	0
FY 2018-19 Issues											0
New Debt Issues Reserve Requirement	0	0	98,439	98,439	98,439	98,439	98,439	0	0	0	0
Total Requirement - Expansion	0	0	98,439	196,878	295,317	393,756	492,194	492,194	492,194	492,194	492,194
Beginning Balance	0	0	0	98,439	196,878	295,317	393,756	492,194	492,194	492,194	492,194
Existing Debt Retirement	0	0	0	0	0	0	0	0	0	0	0
Required Contribution	$0	$0	$98,439	$98,439	$98,439	$98,439	$98,439	$0	$0	$0	$0
Debt Service Reserve Requirement - Non-Growth											
Future Debt Issues - Non-Growth											
FY 2008-09 Issues	$0	$0	$0	$0	$0						
FY 2009-10 Issues		0	0	0	0	0					
FY 2010-11 Issues			156,474	156,474	156,474	156,474	156,474				
FY 2011-12 Issues				0	0	0	0	0			
FY 2012-13 Issues					0	0	0	0	0		
FY 2013-14 Issues						0	0	0	0	0	
FY 2014-15 Issues							0	0	0	0	0
FY 2015-16 Issues								0	0	0	0
FY 2016-17 Issues									0	0	0
FY 2017-18 Issues										0	0
FY 2018-19 Issues											0
New Debt Issues Reserve Requirement	0	0	156,474	156,474	156,474	156,474	156,474	0	0	0	0
Total Requirement - Operations	0	0	156,474	312,948	469,422	625,896	782,371	782,371	782,371	782,371	782,371
Beginning Balance	0	0	0	156,474	312,948	469,422	625,896	782,371	782,371	782,371	782,371
Existing Debt Retirement	0	0	0	0	0	0	0	0	0	0	0
Required Contribution	0	0	156,474	156,474	156,474	156,474	156,474	0	0	0	0
Beginning of Year Cash Balance	$0	$0	$0	$254,913	$514,924	$780,136	$1,050,651	$1,326,577	$1,353,109	$1,380,171	$1,407,775
Transfers From Operations			156,474	156,474	156,474	156,474	156,474	0	0	0	0
Transfers From Expansion	0	0	98,439	98,439	98,439	98,439	98,439	0	0	0	0
Existing Debt Retirement	0	0	0	0	0	0	0	0	0	0	0
Interest	0	0	0	5,098	10,298	15,603	21,013	26,532	27,062	27,603	28,155
Increase /(Decrease) In Cash Balance	0	0	254,913	260,011	265,211	270,516	275,926	26,532	27,062	27,603	28,155
End of Year Cash Balance	$0	$0	$254,913	$514,924	$780,136	$1,050,651	$1,326,577	$1,353,109	$1,380,171	$1,407,775	$1,435,930

REDDAK CONSULTING

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Current $
30-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP1

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
East Bench 24-inch Transmission	100%	0%	$2,000,000	$2,487,500	$2,487,500	$0	$0	$0	$0	$0	$0	$0	$0	$6,975,000
24-inch D.I. Transmission Main Kino to Main Tanks	0%	100%	0	0	1,636,450	1,636,450	0	0	0	0	0	0	0	3,272,900
College Tank to Airport District/Waterline	100%	0%	0	0	688,580	0	0	0	0	0	0	0	0	688,580
Storage Tank - College Tank Farm	100%	0%	0	0	1,002,406	0	0	0	0	0	0	0	0	1,002,406
New Water Production Wells	100%	0%	0	0	0	2,524,250	0	0	0	0	0	0	0	2,524,250
New Scada System	0%	100%	0	75,000	0	0	0	0	0	0	0	0	0	75,000
Backhoe	0%	100%	95,000	0	0	0	0	0	0	0	0	0	0	95,000
6 yd Dump Truck	0%	100%	70,000	0	0	0	0	0	0	0	0	0	0	70,000
Fire Hydrant Replacement	0%	100%	50,000	50,000	50,000	50,000	0	0	0	0	0	0	0	200,000
Co-Generation for City Well #11	0%	100%	150,000	0	0	0	0	0	0	0	0	0	0	150,000
Storage Tank Restoration	0%	100%	0	300,000	0	0	0	0	0	0	0	0	0	300,000
Boosters for Rattlesnake Tank	100%	0%	325,000	0	0	0	0	0	0	0	0	0	0	325,000
Water Infrastructure Upgrade & Replacement	0%	100%	0	0	0	2,072,151	2,000,000	0	0	0	0	0	0	4,072,151
Emergency Backup Power	0%	100%	85,000	0	0	0	0	0	0	0	0	0	0	85,000
FUTURE CIP	0%	100%	0	0	0	0	0	1,664,010	1,664,010	1,664,010	1,664,010	1,664,010	1,664,010	9,984,061
Total			$2,775,000	$2,912,500	$5,864,936	$6,282,851	$2,000,000	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$29,819,348

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Inflated $
30-Year Plan

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
East Bench 24-inch Transmission	100%	0%	$2,000,000	$2,487,500	$2,587,000	$0	$0	$0	$0	$0	$0	$0	$0	$7,074,500
24-inch D.I. Transmission Main Kino to Main Tanks	0%	100%	0	0	1,701,908	1,769,984	0	0	0	0	0	0	0	3,471,892
College Tank to Airport District/Waterline	100%	0%	0	0	716,123	0	0	0	0	0	0	0	0	716,123
Storage Tank - College Tank Farm	100%	0%	0	0	1,042,502	0	0	0	0	0	0	0	0	1,042,502
New Water Production Wells	100%	0%	0	0	0	2,730,229	0	0	0	0	0	0	0	2,730,229
New Scada System	0%	100%	0	75,000	0	0	0	0	0	0	0	0	0	75,000
Backhoe	0%	100%	95,000	0	0	0	0	0	0	0	0	0	0	95,000
6 yd Dump Truck	0%	100%	70,000	0	0	0	0	0	0	0	0	0	0	70,000
Fire Hydrant Replacement	0%	100%	50,000	50,000	52,000	54,080	0	0	0	0	0	0	0	206,080
Co-Generation for City Well #11	0%	100%	150,000	0	0	0	0	0	0	0	0	0	0	150,000
Storage Tank Restoration	0%	100%	0	300,000	0	0	0	0	0	0	0	0	0	300,000
Boosters for Rattlesnake Tank	100%	0%	325,000	0	0	0	0	0	0	0	0	0	0	325,000
Water Infrastructure Upgrade & Replacement	0%	100%	0	0	0	2,241,239	2,249,728	0	0	0	0	0	0	4,490,967
Emergency Backup Power	0%	100%	85,000	0	0	0	0	0	0	0	0	0	0	85,000
FUTURE CIP	0%	100%	0	0	0	0	0	1,946,657	2,024,523	2,105,504	2,189,724	2,277,313	2,368,405	12,912,125
Total			$2,775,000	$2,912,500	$6,099,533	$6,795,532	$2,249,728	$1,946,657	$2,024,523	$2,105,504	$2,189,724	$2,277,313	$2,368,405	$33,744,418

REDOAK CONSULTING

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Current $
GROWTH
30-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP2

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
East Bench 24-inch Transmission	100%	0%	$2,000,000	$2,487,500	$2,487,500	$0	$0	$0	$0	$0	$0	$0	$0	$6,975,000
College Tank to Airport District/Waterline	100%	0%	0	0	688,580	0	0	0	0	0	0	0	0	688,580
Storage Tank - College Tank Farm	100%	0%	0	0	1,002,406	0	0	0	0	0	0	0	0	1,002,406
New Water Production Wells	100%	0%	0	0	0	2,524,250	0	0	0	0	0	0	0	2,524,250
Boosters for Rattlesnake Tank	100%	0%	325,000	0	0	0	0	0	0	0	0	0	0	325,000
Total			$2,325,000	$2,487,500	$4,178,486	$2,524,250	$0	$0	$0	$0	$0	$0	$0	$11,515,236

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Inflated $
GROWTH
30-Year Plan

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
East Bench 24-inch Transmission	100%	0%	$2,000,000	$2,487,500	$2,587,000	$0	$0	$0	$0	$0	$0	$0	$0	$7,074,500
College Tank to Airport District/Waterline	100%	0%	0	0	716,123	0	0	0	0	0	0	0	0	716,123
Storage Tank - College Tank Farm	100%	0%	0	0	1,042,502	0	0	0	0	0	0	0	0	1,042,502
New Water Production Wells	100%	0%	0	0	0	2,730,229	0	0	0	0	0	0	0	2,730,229
Boosters for Rattlesnake Tank	100%	0%	325,000	0	0	0	0	0	0	0	0	0	0	325,000
Total			$2,325,000	$2,487,500	$4,345,625	$2,730,229	$0	$0	$0	$0	$0	$0	$0	$11,888,354

REDOAK CONSULTING

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Current $
NON-GROWTH
30-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP3

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
24-inch D.I. Transmission Main Kino to Main Tanks	0%	100%	0	0	1,636,450	1,636,450	0	0	0	0	0	0	0	3,272,900
New Scada System	0%	100%	0	75,000	0	0	0	0	0	0	0	0	0	75,000
Backhoe	0%	100%	95,000	0	0	0	0	0	0	0	0	0	0	95,000
6 yd Dump Truck	0%	100%	70,000	0	0	0	0	0	0	0	0	0	0	70,000
Fire Hydrant Replacement	0%	100%	50,000	50,000	50,000	50,000	0	0	0	0	0	0	0	200,000
Co-Generation for City Well #11	0%	100%	150,000	0	0	0	0	0	0	0	0	0	0	150,000
Storage Tank Restoration	0%	100%	0	300,000	0	0	0	0	0	0	0	0	0	300,000
Water Infrastructure Upgrade & Replacement	0%	100%	0	0	0	2,072,151	2,000,000	0	0	0	0	0	0	4,072,151
Emergency Backup Power	0%	100%	85,000	0	0	0	0	0	0	0	0	0	0	85,000
FUTURE CIP	0%	100%	0	0	0	0	0	1,664,010	1,664,010	1,664,010	1,664,010	1,664,010	1,664,010	9,984,061
Total			$450,000	$425,000	$1,686,450	$3,758,601	$2,000,000	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$1,664,010	$18,304,112

CITY OF KINGMAN - CAPITAL IMPROVEMENT PROJECTIONS
WATER PROJECTS - Inflated $
NON-GROWTH
30-Year Plan

PROJECT/PROGRAM DESCRIPTION	% Growth	% Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	TOTAL
24-inch D.I. Transmission Main Kino to Main Tanks	0%	100%	0	0	1,701,908	1,769,984	0	0	0	0	0	0	0	3,471,892
New Scada System	0%	100%	0	75,000	0	0	0	0	0	0	0	0	0	75,000
Backhoe	0%	100%	95,000	0	0	0	0	0	0	0	0	0	0	95,000
6 yd Dump Truck	0%	100%	70,000	0	0	0	0	0	0	0	0	0	0	70,000
Fire Hydrant Replacement	0%	100%	50,000	50,000	52,000	54,080	0	0	0	0	0	0	0	206,080
Co-Generation for City Well #11	0%	100%	150,000	0	0	0	0	0	0	0	0	0	0	150,000
Storage Tank Restoration	0%	100%	0	300,000	0	0	0	0	0	0	0	0	0	300,000
Water Infrastructure Upgrade & Replacement	0%	100%	0	0	0	2,241,239	2,249,728	0	0	0	0	0	0	4,490,967
Emergency Backup Power	0%	100%	85,000	0	0	0	0	0	0	0	0	0	0	85,000
FUTURE CIP	0%	100%	0	0	0	0	0	1,946,657	2,024,523	2,105,504	2,189,724	2,277,313	2,368,405	12,912,125
Total			$450,000	$425,000	$1,753,908	$4,065,303	$2,249,728	$1,946,657	$2,024,523	$2,105,504	$2,189,724	$2,277,313	$2,368,405	$21,856,064

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
BOND SIZING - WATER FUND
WIFA Loan
30-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT1

DEBT SERVICE PAYMENT		BUDGET YEAR FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
FY 2008-09	SERIES	$0	$0	$988,570	$988,570	$1,274,563	$1,274,563	$1,274,563	$1,274,563	$1,274,563	$1,274,563	$1,274,563
FY 2009-10	SERIES		0	0	0	0	0	0	0	0	0	0
FY 2010-11	SERIES			0	0	0	0	0	0	0	0	0
FY 2011-12	SERIES				0	0	0	0	0	0	0	0
FY 2012-13	SERIES					0	0	0	0	0	0	0
FY 2013-14	SERIES						0	0	0	0	0	0
FY 2014-15	SERIES							0	0	0	0	0
FY 2015-16	SERIES								0	0	0	0
FY 2016-17	SERIES									0	0	0
FY 2017-18	SERIES										0	0
FY 2018-19	SERIES											0
Total Proposed Debt Service		$0	$0	$988,570	$988,570	$1,274,563	$1,274,563	$1,274,563	$1,274,563	$1,274,563	$1,274,563	$1,274,563
Growth P&I	FY 2008-09	$0	$0	$381,753	$381,753	$492,194	$492,194	$492,194	$492,194	$492,194	$492,194	$492,194
	FY 2009-10		0	0	0	0	0	0	0	0	0	0
	FY 2010-11			0	0	0	0	0	0	0	0	0
	FY 2011-12				0	0	0	0	0	0	0	0
	FY 2012-13					0	0	0	0	0	0	0
	FY 2013-14						0	0	0	0	0	0
	FY 2014-15							0	0	0	0	0
	FY 2015-16								0	0	0	0
	FY 2016-17									0	0	0
	FY 2017-18										0	0
	FY 2018-19											0
Total Growth P&I		$0	$0	$381,753	$381,753	$492,194	$492,194	$492,194	$492,194	$492,194	$492,194	$492,194
Non-Growth P&I	FY 2008-09	$0	$0	$606,817	$606,817	$782,369	$782,369	$782,369	$782,369	$782,369	$782,369	$782,369
	FY 2009-10		0	0	0	0	0	0	0	0	0	0
	FY 2010-11			0	0	0	0	0	0	0	0	0
	FY 2011-12				0	0	0	0	0	0	0	0
	FY 2012-13					0	0	0	0	0	0	0
	FY 2013-14						0	0	0	0	0	0
	FY 2014-15							0	0	0	0	0
	FY 2015-16								0	0	0	0
	FY 2016-17									0	0	0
	FY 2017-18										0	0
	FY 2018-19											0
Total Non-Growth P&I			$0	$606,817	$606,817	$782,369	$782,369	$782,369	$782,369	$782,369	$782,369	$782,369

Growth Proceeds % 38.62%
Non-Growth Proceeds % 61.38%

REDOAK CONSULTING

CITY OF KINGMAN
WATER RATE STUDY
INVESTMENT FEE CALCULATION
BUY-IN
30-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**INV_FEE_CALC**
DATE:	**10/22/2008**
RANGE:	**INV_FEE_1**

		Investment Fee Calculation
RCN Existing Assets		$101,142,493
NPV of Total Interest Payments		0
Total Value		$101,142,493
Average Day Demand	8,343,000	
Residential Billed Usage Per Month Per Account (2)	8,450	
Days Per Month	30.4	
Residential Usage Per Day	278	
Equivalent Residential Units (ERUs) Served	30,015	30,015
Investment Fee Per ERU		$3,369.73
Current Investment Fee		$1,200.00
Increase/ Decrease - $		$2,169.73
Increase/ Decrease - %		181%

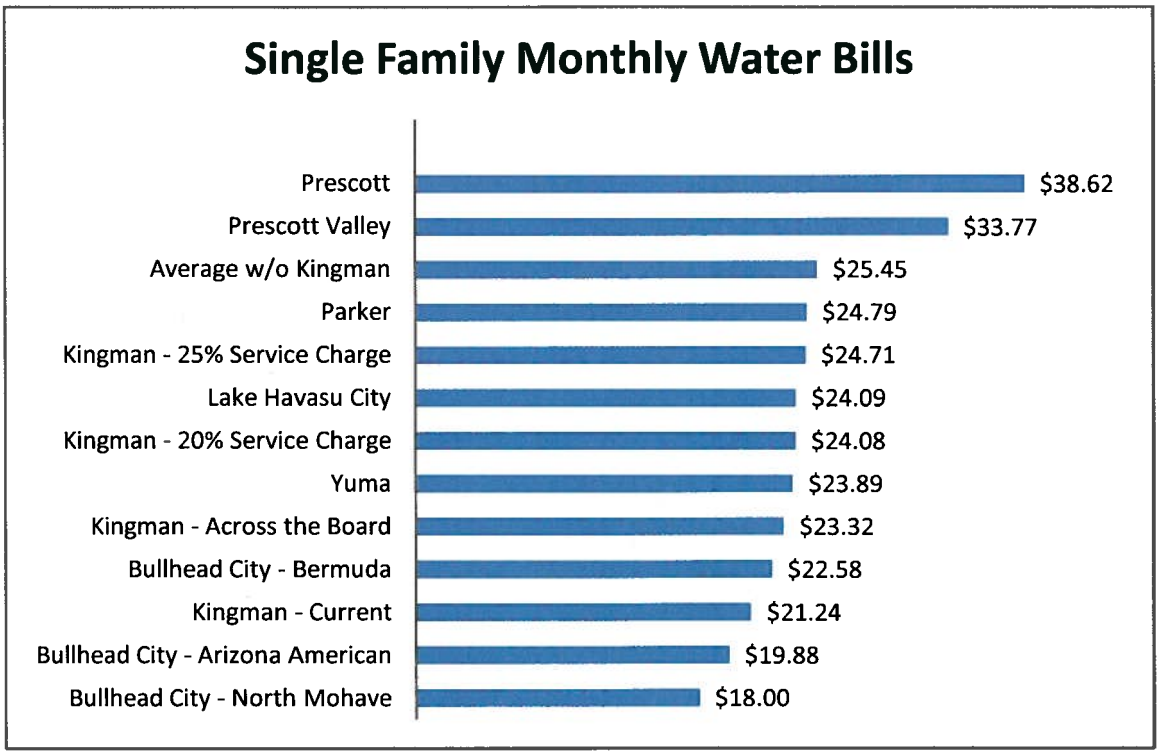
REDOAK CONSULTING

City of Kingman
Water and Wastewater Rates and Investment Fee Study

Appendix C: Water Survey Comparison

REDOAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

5204-003 / DEN


Single Family Monthly Water Bills
Prescott
$38.62
Prescott Valley
$33.77
Average w/o Kingman
$25.45
Parker
$24.79
Kingman - 25% Service Charge
$24.71
Lake Havasu City
$24.09
Kingman - 20% Service Charge
$24.08
Yuma
$23.89
Kingman - Across the Board
$23.32
Bullhead City - Bermuda
$22.58
Kingman - Current
$21.24
Bullhead City - Arizona American
$19.88
Bullhead City - North Mohave
$18.00

City of Kingman
Water and Wastewater Rates and Investment Fee Study

Appendix D: Wastewater 20-Year Debt Plan

REDOAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

5204-003 / DEN

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DECISION CRITERIA - WASTEWATER
20-Year Plan

FILE: Kingman2008
SCHEDULE: DECISIONS
DATE: 10/22/2008
RANGE: DEC CRIT1A

DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
Rate Increase	48%	50%	7%	0%	0%	-7%	-5%	-4%
Effective Month of Increase	7	1	1	1	1	1	1	1
(effective 1st day of month: 1=July 12=June)								
Monthly Residential Bill	$21.37	$32.06	$34.31	$34.31	$34.31	$31.90	$30.31	$29.10
(Based on 6,150 Gallons)								
Investment Fee Increase	0%	38%	4%	4%	4%	4%	4%	4%
Single-Family Residential Fee (per fixture unit)	$66	$91	$95	$98	$102	$106	$111	$115
Bond/Loan Proceeds								
Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0
Investment Fee Subfund	0	0	0	0	0	0	0	0
WIFA Loan Proceeds	6,105,337	15,621,798	18,872,865	0	0	0	0	0
Total Fund	$0	$0	$0	$0	$0	$0	$0	$0
Loans To Investment Fee Subfund								
(From) Operations Subfund								
Annual	$0	$0	$0	$300,000	$650,000	$700,000	$500,000	$300,000
Payments	0	0	0	0	0	0	0	0
Loans To Operations Subfund								
(From) Investment Fee Subfund	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0
Working Capital Reserve Ratio - Operations Fund [1]	66%	9%	22%	24%	43%	25%	28%	30%
Total Fund Debt Service Coverage Ratio - Total Fund [2]	2.19	1.97	2.18	1.41	1.63	1.51	1.45	1.42
Reserve Balances - End of Year								
Operations	$1,131,736	$156,786	$393,575	$470,103	$918,786	$581,521	$671,692	$733,892
Expansion Fund	2,217,716	1,417,452	407,537	60,164	76,986	165,727	77,490	47,728
Debt Service Reserve	0	766,321	1,547,968	1,803,996	2,427,783	3,242,660	3,307,513	3,373,663
Total Fund	$3,349,452	$2,340,559	$2,349,081	$2,334,263	$3,423,555	$3,989,909	$4,056,695	$4,155,284
CIP Funded by Debt								
Cumulative Bonds/Loans	$6,105,337	$21,727,135	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000
Cumulative % of CIP Funded by Debt	97%	86%	87%	86%	86%	85%	85%	85%
Capital Improvement Plan								
Capital Improvement Plan	$6,300,000	$19,100,000	$21,112,000	$721,067	$187,477	$194,976	$202,775	$210,887
Cumulative CIP Amount	$6,300,000	$25,400,000	$46,512,000	$47,233,067	$47,420,544	$47,615,520	$47,818,296	$48,029,182

[1] Target reserve: 25% Working Capital Reserve as a percent of Operating Expenditures
[2] Revenue Bond debt service coverage target: 1.33

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DECISION CRITERIA - WASTEWATER
20-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**DECISIONS**
DATE:	**10/22/2008**
RANGE:	**DEC CRIT1B**

DESCRIPTION	Projected FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Rate Increase	0%	-3%	0%	0%	0%	0%	0%	0%
Effective Month of Increase	1	1	1	1	1	1	1	1
(effective 1st day of month: 1=July 12=June)								
Monthly Residential Bill	$29.10	$28.22	$28.22	$28.22	$28.22	$28.22	$28.22	$28.22
(Based on 6,150 Gallons)								
Investment Fee Increase	4%	4%	4%	4%	4%	4%	4%	4%
Single-Family Residential Fee (per fixture unit)	$120	$125	$130	$135	$140	$146	$152	$158
Bond/Loan Proceeds								
Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0
Investment Fee Subfund	0	0	0	0	0	0	0	0
WIFA Loan Proceeds	0	0	0	0	0	0	0	0
Total Fund	$0	$0	$0	$0	$0	$0	$0	$0
Loans To Investment Fee Subfund								
(From) Operations Subfund								
Annual	$275,000	$275,000	$275,000	$250,000	$225,000	$220,000	$200,000	$175,000
Payments	0	0	0	0	0	0	0	0
Loans To Operations Subfund								
(From) Investment Fee Subfund	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0
Working Capital Reserve Ratio - Operations Fund [1]	34%	31%	30%	29%	30%	30%	31%	31%
Total Fund Debt Service Coverage Ratio - Total Fund [2]	1.45	1.43	1.46	1.49	1.52	1.55	1.57	1.59
Reserve Balances - End of Year								
Operations	$867,598	$819,642	$793,308	$805,184	$846,625	$887,790	$933,432	$977,801
Expansion Fund	15,190	869	7,046	8,390	2,949	9,498	12,032	2,942
Debt Service Reserve	3,441,137	3,509,959	3,580,159	3,651,762	3,724,797	3,799,293	3,875,279	3,952,784
Total Fund	$4,323,924	$4,330,471	$4,380,512	$4,465,336	$4,574,371	$4,696,581	$4,820,742	$4,933,527
CIP Funded by Debt								
Cumulative Bonds/Loans	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000
Cumulative % of CIP Funded by Debt	84%	84%	83%	83%	82%	82%	82%	81%
Capital Improvement Plan								
Capital Improvement Plan	$219,322	$228,095	$237,219	$246,707	$256,576	$266,839	$277,512	$288,613
Cumulative CIP Amount	$48,248,504	$48,476,599	$48,713,818	$48,960,525	$49,217,101	$49,483,940	$49,761,452	$50,050,065

[1] Target reserve: 25% Working Capital Reserve as a percent of Operating Expenditures
[2] Revenue Bond debt service coverage target: 1.33

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DECISION CRITERIA - WASTEWATER
20-Year Plan

FILE: Kingman2008
SCHEDULE: DECISIONS
DATE: 10/22/2008
RANGE: DEC CRIT1C

DESCRIPTION	Projected								
	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33
Rate Increase	0%	0%	0%	0%	-15%	-25%	-5%	0%	0%
Effective Month of Increase	1	1	1	1	1	1	1	1	1
(effective 1st day of month: 1=July 12=June)									
Monthly Residential Bill	$28.22	$28.22	$28.22	$28.22	$23.99	$17.99	$17.09	$17.09	$17.09
(Based on 6,150 Gallons)									
Investment Fee Increase	4%	4%	4%	4%	4%	4%	4%	4%	4%
Single-Family Residential Fee (per fixture unit)	$164	$170	$177	$184	$192	$199	$207	$216	$224
Bond/Loan Proceeds									
Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0
Investment Fee Subfund	0	0	0	0	0	0	0	0	0
WIFA Loan Proceeds	0	0	0	0	0	0	0	0	0
Total Fund	$0	$0	$0	$0	$0	$0	$0	$0	$0
Loans To Investment Fee Subfund									
(From) Operations Subfund									
Annual	$175,000	$150,000	$135,000	$125,000	$0	$0	$0	$0	$0
Payments	0	0	0	0	(500,000)	(500,000)	(500,000)	(1,000,000)	(1,500,000)
Loans To Operations Subfund									
(From) Investment Fee Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0	0
Working Capital Reserve Ratio - Operations Fund [1]	31%	29%	27%	22%	63%	55%	36%	28%	30%
Total Fund Debt Service Coverage Ratio - Total Fund [2]	1.61	1.63	1.65	1.66	1.33	0.00	0.00	0.00	0.00
Reserve Balances - End of Year									
Operations	$985,750	$969,202	$906,788	$780,403	$2,272,344	$1,976,681	$1,291,355	$994,685	$1,081,256
Expansion Fund	13,393	9,124	7,738	6,269	493,095	1,089,117	1,695,369	1,815,474	1,445,610
Debt Service Reserve	4,031,840	4,112,477	4,194,726	4,278,621	766,192	0	0	0	0
Total Fund	$5,030,983	$5,090,802	$5,109,252	$5,065,293	$3,531,631	$3,065,798	$2,986,724	$2,810,160	$2,526,866
CIP Funded by Debt									
Cumulative Bonds/Loans	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000
Cumulative % of CIP Funded by Debt	81%	80%	80%	79%	79%	79%	79%	79%	79%
Capital Improvement Plan									
Capital Improvement Plan	$300,157	$312,164	$324,650	$337,636	$351,142	$0	$0	$0	$0
Cumulative CIP Amount	$50,350,222	$50,662,385	$50,987,035	$51,324,672	$51,675,813	$51,675,813	$51,675,813	$51,675,813	$51,675,813

[1] Target reserve: 25% Working Capital Reserve as a percent of Operating Expenditures
[2] Revenue Bond debt service coverage target: 1.33

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GENERAL INPUT SCHEDULE

FILE:	**Kingman2008**
SCHEDULE:	**INPUT**
DATE:	**10/22/2008**
RANGE:	**INPUT1**

1. General Model Parameters

FILE:	**Kingman2008**	
Enter Base Year (fiscal year)	**2008**	**FY 2008-09**

2. Operating Revenue	**Budget FY 2008-09**
Base Sewer Services	$751,700
Sewer Service - Flows	695,700
Sewer Service - BOD	511,400
Sewer Service - SS	430,500
Expansion Fees	0
Tap Fee	2,500
Engineering Fees	8,500
Miscellaneous Revenues	0
Interest Earnings	30,000
Beginning Balance	1,275,257
Total	$3,705,557

3. Operating Expenditures	**Budget FY 2008-09**
Personnel Expenses	$487,431
Supplies & Services	624,750
City and Internal Services	110,150
Subtotal	1,222,331
Cash Transfers:	
Engineering Adm Support-to Wtr Fund	507,395
General Fund Admin. Support	73,761
HURF Admin. Support	13,650
Benefits Reserve Fund	25,000
Airway Construction Fund	0
Trans. To: AZ State Const. Fund	0
Subtotal	619,806
Capital Outlay, Lease Purchases & Debt	384,200
Contingency	100,000
Total Operations Expenditures	$2,326,337

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GENERAL INPUT SCHEDULE

FILE:	**Kingman2008**
SCHEDULE:	**INPUT**
DATE:	**10/22/2008**
RANGE:	**INPUT2**

	4. System Expansion Fund	**Budget FY 2008-09**
	4a. Revenue	
460.7	Investment Fees	$800,000
365	Participant Contribution	0
	Utility Line Payback	0
394	WIFA Loan Proceeds	44,800,000
361	Interest Earnings	90,000
495	Beginning Fund Balance	3,167,539
	Total	48,857,539
	4b. Expenditures	
3720-5	DTWWTP - Modifications (ADEQ Required)	8,800,000
3720-5	Downtown Sewer Line Replace/Realign	1,000,000
	HTWWTP Upgrades & Expansion	35,000,000
	Mohave Channel Trunk Sewer	500,000
3720-5	WIFA/Debt Payments	506,253
	Total Projects	45,806,253
	Transfers to:	
	KAT & Banks Airport ID	15,000
9100-53	Cash Tfr to Contingency	0
9100-53	Contingency	1,000,000
	Total Expenditures	1,015,000
-4795	Required Debt Reserve	559,823
-4795	Available for Appropriation	1,476,463
	Ending Fund Balance	$0

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GENERAL INPUT SCHEDULE

FILE: Kingman2008
SCHEDULE: INPUT
DATE: 10/22/2008
RANGE: INPUT3

		Budget	Projected								
		FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Escalation Factors											
5.	O&M		3.00%	3.00%	10.00%	10.00%	10.00%	3.00%	3.00%	3.00%	3.00%	3.00%
	Miscellaneous CIP		3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
	CIP Inflation		4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
	Interest Earnings on Cash Balance		2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
	Miscellaneous Revenue		3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GENERAL INPUT SCHEDULE

FILE:	**Kingman2008**
SCHEDULE:	**INPUT**
DATE:	**10/22/2008**
RANGE:	**INPUT4**

6. Population

Area	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**
City	**29,429**	30,583	31,722	32,848	33,960	35,058	36,141	37,208	38,261	39,295	40,312	41,311
Growth		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%	2.48%
County	**17,271**	17,575	17,875	18,171	18,463	18,752	19,037	19,317	19,594	19,866	20,134	20,396
Growth		1.76%	1.71%	1.66%	1.61%	1.57%	1.52%	1.47%	1.43%	1.39%	1.35%	1.30%
General Plan Area	46,700	48,158	49,597	51,019	52,423	53,810	55,178	56,525	57,855	59,161	60,446	61,707
		3.12%	2.99%	2.87%	2.75%	2.65%	2.54%	2.44%	2.35%	2.26%	2.17%	2.09%

	BUDGET YEAR	**PROJECTED**									
	FY 2008-09	**FY 2009-10**	**FY 2010-11**	**FY 2011-12**	**FY 2012-13**	**FY 2013-14**	**FY 2014-15**	**FY 2015-16**	**FY 2016-17**	**FY 2017-18**	**FY 2018-19**
City Accounts											
Residential	7,121	7,400	7,676	7,948	8,217	8,483	8,745	9,003	9,258	9,508	9,754
Non-Residential	858	892	925	958	990	1,022	1,054	1,085	1,115	1,146	1,175
Subtotal	7,979	8,292	8,601	8,906	9,207	9,505	9,799	10,088	10,374	10,654	10,930
New City Accounts											
Residential		279	276	272	269	266	262	258	255	250	246
Non-Residential		34	33	33	32	32	32	31	31	30	30
Subtotal		313	309	305	301	298	294	289	285	280	276
Percent Change From Prior Year		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%
County Accounts											
Residential	773	787	800	813	826	839	852	865	877	889	901
Non-Residential	126	128	130	132	134	136	138	140	142	144	146
Subtotal	899	915	930	945	960	975	990	1,005	1,019	1,033	1,047
New County Accounts											
Residential		14	13	13	13	13	13	13	12	12	12
Non-Residential		2	2	2	2	2	2	2	2	2	2
Subtotal		16	15	15	15	15	15	15	14	14	14
Percent Change From Prior Year		1.78%	1.64%	1.61%	1.59%	1.56%	1.54%	1.52%	1.39%	1.37%	1.36%
Total New Connections		16	15	15	15	15	15	15	14	14	14
Overall Growth Rate		3.70%	3.52%	3.36%	3.21%	3.08%	2.94%	2.82%	2.70%	2.58%	2.48%

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER FUND CASHFLOW
20-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**TOTAL FUND**
DATE:	**10/22/2008**
RANGE:	**TOTAL1**

Line No.	DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenues											
1	City Service Revenue	$2,962,732	$6,392,751	$7,080,820	$7,318,779	$7,553,917	$7,241,199	$7,081,723	$6,990,201	$7,178,926	$7,143,472	$7,320,569
2	Investment Fee Revenue	800,000	740,054	759,652	781,021	802,163	823,747	844,993	865,809	888,627	907,497	928,280
3	Tap Fee	2,500	2,575	2,652	2,732	2,814	2,898	2,985	3,075	3,167	3,262	3,360
4	Engineering Fees	8,500	8,755	9,018	9,288	9,567	9,854	10,149	10,454	10,768	11,091	11,423
5	Interest Income	120,000	78,186	31,485	16,022	10,605	19,915	14,945	14,984	15,632	17,656	16,410
6	**Total Operating Revenues**	3,893,732	7,222,321	7,883,627	8,127,843	8,379,066	8,097,613	7,954,795	7,884,523	8,097,120	8,082,977	8,280,043
	Operating Expenditures											
7	Operations	1,222,331	1,259,001	1,296,771	1,426,448	1,569,093	1,726,002	1,777,782	1,831,116	1,886,049	1,942,631	2,000,910
8	Capital Outlay	384,200	395,726	407,598	419,826	432,420	445,393	458,755	472,518	486,693	501,294	516,333
9	Contingency	1,100,000	103,000	106,090	116,699	128,369	141,206	145,442	149,805	154,299	158,928	163,696
10	**Total Operating Expenditures**	2,706,531	1,757,727	1,810,459	1,962,973	2,129,882	2,312,601	2,381,979	2,453,438	2,527,042	2,602,853	2,680,938
11	**Revenue Available for Debt Service**	1,187,201	5,464,594	6,073,169	6,164,870	6,249,184	5,785,012	5,572,816	5,431,084	5,570,078	5,480,125	5,599,104
	Debt Service											
12	Debt Service Payments - Existing	541,253	541,253	541,253	541,253	0	0	0	0	0	0	0
13	Debt Service Payments - New	0	0	0	0	0	0	0	0	0	0	0
14	Debt Service Payments - WIFA Hilltop	0	1,749,231	1,749,231	2,992,802	2,992,802	2,992,802	2,992,802	2,992,802	2,992,802	2,992,802	2,992,802
15	Debt Service Payments - WIFA Downtown	0	490,000	490,000	838,353	838,353	838,353	838,353	838,353	838,353	838,353	838,353
16	**Total Debt Service**	541,253	2,780,484	2,780,484	4,372,408	3,831,155	3,831,155	3,831,155	3,831,155	3,831,155	3,831,155	3,831,155
17	***DSC Ratio***	**2.19**	**1.97**	**2.18**	**1.41**	**1.63**	**1.51**	**1.45**	**1.42**	**1.45**	**1.43**	**1.46**
18	**Income Available After All Debt Service**	645,948	2,684,110	3,292,685	1,792,462	2,418,029	1,953,857	1,741,661	1,599,929	1,738,923	1,648,970	1,767,949
	Other Cash Inflows/(Outflows)											
19	Engineering Adm. Support-to Wtr Fund	(507,395)	(532,765)	(559,403)	(587,373)	(616,742)	(647,579)	(679,958)	(713,955)	(749,653)	(787,136)	(826,493)
20	Transfer Out: Utility Billing Support - from Se	(150,000)	(157,500)	(165,375)	(173,644)	(182,326)	(191,442)	(201,014)	(211,065)	(221,618)	(232,699)	(244,334)
21	General Fund Admin. Support	(73,761)	(75,974)	(78,253)	(86,078)	(94,686)	(104,155)	(107,279)	(110,498)	(113,813)	(117,227)	(120,744)
22	HURF Admin. Support	(13,650)	(14,060)	(14,481)	(15,929)	(17,522)	(19,275)	(19,853)	(20,448)	(21,062)	(21,694)	(22,345)
23	Benefits Reserve Fund	(25,000)	(25,750)	(26,523)	(29,175)	(32,092)	(35,301)	(36,360)	(37,451)	(38,575)	(39,732)	(40,924)
24	CIP	(6,300,000)	(19,100,000)	(21,112,000)	(721,067)	(187,477)	(194,976)	(202,775)	(210,887)	(219,322)	(228,095)	(237,219)
25	Capital Renewal	(200,000)	(208,000)	(216,320)	(224,973)	(233,972)	(243,331)	(253,064)	(263,186)	(273,714)	(284,662)	(296,049)
26	Transer to KAT & Banks Airport ID	(15,000)	0	0	0	0	0	0	0	0	0	0
27	Transfer to Debt Service Reserve Fund	0	(526,897)	(766,321)	(766,321)	(587,708)	(766,321)	(239,424)	0	0	0	0
28	Transfer From Debt Service Reserve Fund	0	0	0	541,253	0	0	0	0	0	0	0
29	Bond/Loan Proceeds	0	0	0	0	0	0	0	0	0	0	0
30	WIFA Loan Proceeds - Hilltop WWTP	5,775,000	13,860,000	11,165,000	0	0	0	0	0	0	0	0
31	WIFA Loan Proceeds	330,337	1,761,798	7,707,865	0	0	0	0	0	0	0	0
32	**Total Other Cash Inflows/(Outflows)**	(1,179,469)	(5,019,147)	(4,065,810)	(2,063,307)	(1,952,525)	(2,202,380)	(1,739,728)	(1,567,491)	(1,637,757)	(1,711,245)	(1,788,107)
33	**Increase /(Decrease) in Cash Balance**	(533,521)	(2,335,037)	(773,126)	(270,845)	465,504	(248,523)	1,933	32,438	101,167	(62,276)	(20,158)
34	**Beginning of Year Cash Balance**	4,442,796	3,909,275	1,574,238	801,112	530,267	995,772	747,249	749,182	781,620	882,787	820,511
35	**End of Year Cash Balance**	$3,909,275	$1,574,238	$801,112	$530,267	$995,772	$747,249	$749,182	$781,620	$882,787	$820,511	$800,354

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
CASHFLOW - WASTEWATER OPERATIONS
20-Year Plan

FILE: Kingman2008
SCHEDULE: OPERATIONS
DATE: 10/22/2008
RANGE: OPS1

Line No.	DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenues											
1	City Service Revenue	$2,962,732	$6,392,751	$7,080,820	$7,318,779	$7,553,917	$7,241,199	$7,081,723	$6,990,201	$7,178,926	$7,143,472	$7,320,569
2	Tap Fee	2,500	2,575	2,652	2,732	2,814	2,898	2,985	3,075	3,167	3,262	3,360
3	Engineering Fees	8,500	8,755	9,018	9,288	9,567	9,854	10,149	10,454	10,768	11,091	11,423
4	Misc. Revenue	0	0	0	0	0	0	0	0	0	0	0
5	Interest Income	30,000	22,635	3,136	7,872	9,402	18,376	11,630	13,434	14,678	17,352	16,393
6	**Total Operating Revenues**	3,003,732	6,426,715	7,095,626	7,338,670	7,575,700	7,272,327	7,106,488	7,017,163	7,207,538	7,175,177	7,351,745
	Operating Expenditures											
7	Operations	1,222,331	1,259,001	1,296,771	1,426,448	1,569,093	1,726,002	1,777,782	1,831,116	1,886,049	1,942,631	2,000,910
8	Capital Outlay	384,200	395,726	407,598	419,826	432,420	445,393	458,755	472,518	486,693	501,294	516,333
9	Contingency	100,000	103,000	106,090	116,699	128,369	141,206	145,442	149,805	154,299	158,928	163,696
10	**Total Operating Expenditures**	1,706,531	1,757,727	1,810,459	1,962,973	2,129,882	2,312,601	2,381,979	2,453,438	2,527,042	2,602,853	2,680,938
11	**Revenue Available for Debt Service**	1,297,201	4,668,988	5,285,167	5,375,698	5,445,818	4,959,726	4,724,509	4,563,725	4,680,496	4,572,324	4,670,807
	Debt Service											
12	Debt Service Payments - Existing	541,253	541,253	541,253	541,253	0	0	0	0	0	0	0
13	Debt Service Payments - New	0	0	0	0	0	0	0	0	0	0	0
14	Debt Service Payments - WIFA Hilltop	0	1,049,539	1,049,539	1,795,681	1,795,681	1,795,681	1,795,681	1,795,681	1,795,681	1,795,681	1,795,681
15	Debt Service Payments - WIFA Downtown	0	490,000	490,000	838,353	838,353	838,353	838,353	838,353	838,353	838,353	838,353
16	**Total Debt Service**	541,253	2,080,792	2,080,792	3,175,287	2,634,034	2,634,034	2,634,034	2,634,034	2,634,034	2,634,034	2,634,034
17	***DSC Ratio***	**2.40**	**2.24**	**2.54**	**1.69**	**2.07**	**1.88**	**1.79**	**1.73**	**1.78**	**1.74**	**1.77**
18	**Income Available After All Debt Service**	755,948	2,588,197	3,204,376	2,200,410	2,811,783	2,325,692	2,090,475	1,929,691	2,046,462	1,938,290	2,036,773
	Other Cash Inflows/(Outflows)											
19	Engineering Adm Support-to Wtr Fund	(507,395)	(532,765)	(559,403)	(587,373)	(616,742)	(647,579)	(679,958)	(713,955)	(749,653)	(787,136)	(826,493)
20	Transfer Out: Utility Billing Support - from Sewer	(150,000)	(157,500)	(165,375)	(173,644)	(182,326)	(191,442)	(201,014)	(211,065)	(221,618)	(232,699)	(244,334)
21	General Fund Admin. Support	(73,761)	(75,974)	(78,253)	(86,078)	(94,686)	(104,155)	(107,279)	(110,498)	(113,813)	(117,227)	(120,744)
22	HURF Admin. Support	(13,650)	(14,060)	(14,481)	(15,929)	(17,522)	(19,275)	(19,853)	(20,448)	(21,062)	(21,694)	(22,345)
23	Benefits Reserve Fund	(25,000)	(25,750)	(26,523)	(29,175)	(32,092)	(35,301)	(36,360)	(37,451)	(38,575)	(39,732)	(40,924)
24	Airway Construction Fund	0	0	0	0	0	0	0	0	0	0	0
25	Trans. To: AZ State Const. Fund	0	0	0	0	0	0	0	0	0	0	0
26	Non-Growth CIP	(3,725,000)	(12,100,000)	(15,787,200)	(721,067)	(187,477)	(194,976)	(202,775)	(210,887)	(219,322)	(228,095)	(237,219)
27	Capital Renewal	(200,000)	(208,000)	(216,320)	(224,973)	(233,972)	(243,331)	(253,064)	(263,186)	(273,714)	(284,662)	(296,049)
28	Loans (To) Investment Fee Subfund	0	0	0	(300,000)	(650,000)	(700,000)	(500,000)	(300,000)	(275,000)	(275,000)	(275,000)
29	Loans From Investment Fee Subfund	0	0	0	0	0	0	0	0	0	0	0
30	Transfer To Debt Service Reserve Fund	0	(526,897)	(526,897)	(526,897)	(348,284)	(526,897)	0	0	0	0	0
31	Transfer From Debt Service Reserve Fund	0	0	0	541,253	0	0	0	0	0	0	0
32	Bond/Loan Proceeds	0	0	0	0	0	0	0	0	0	0	0
33	WIFA Loan Proceeds - Hilltop WWTP	3,465,000	8,316,000	6,699,000	0	0	0	0	0	0	0	0
34	WIFA Loan Proceeds - Downtown WWTP	330,337	1,761,798	7,707,865	0	0	0	0	0	0	0	0
35	**Total Other Cash Inflows/(Outflows)**	(899,469)	(3,563,147)	(2,967,586)	(2,123,883)	(2,363,101)	(2,662,956)	(2,000,304)	(1,867,491)	(1,912,757)	(1,986,245)	(2,063,107)
36	**Increase /(Decrease) In Cash Balance**	(143,521)	(974,950)	236,789	76,528	448,683	(337,264)	90,171	62,200	133,705	(47,956)	(26,334)
37	**Beginning of Year Cash Balance**	1,275,257	1,131,736	156,786	393,575	470,103	918,786	581,521	671,692	733,892	867,598	819,642
38	**End of Year Cash Balance**	$1,131,736	$156,786	$393,575	$470,103	$918,786	$581,521	$671,692	$733,892	$867,598	$819,642	$793,308
39	**Working Capital Percent**	66%	9%	22%	24%	43%	25%	28%	30%	34%	31%	30%

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
PROJECTED RATE REVENUE - OPERATIONS FUND
20-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**OPERATIONS**
DATE:	**10/22/2008**
RANGE:	**OPS2**

DESCRIPTION	Budget	Projected									
	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
City Service Revenue	$2,389,300	$4,109,596	$6,392,751	$7,080,820	$7,318,779	$7,553,917	$7,241,199	$7,081,723	$6,990,201	$7,178,926	$7,143,472
Monthly Charges	751,700										
Volume Charges	1,637,600										
Subtotal	2,389,300	4,109,596	6,392,751	7,080,820	7,318,779	7,553,917	7,241,199	7,081,723	6,990,201	7,178,926	7,143,472
Annual Growth	0	152,238	224,838	237,959	235,138	232,318	213,246	199,736	188,725	185,479	177,097
Rate Increase	573,432	2,130,917	463,231	0	0	(545,036)	(372,722)	(291,258)	0	(220,932)	0
Total	$2,962,732	$6,392,751	$7,080,820	$7,318,779	$7,553,917	$7,241,199	$7,081,723	$6,990,201	$7,178,926	$7,143,472	$7,320,569
Additional Revenue From Increase if Effective Entire Year	1,146,864	0	0	0	0	0	0	0	0	0	0
Annual Revenue Next Fiscal Year Before Growth and Increase	$4,109,596	$6,392,751	$7,080,820	$7,318,779	$7,553,917	$7,241,199	$7,081,723	$6,990,201	$7,178,926	$7,143,472	$7,320,569

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
CASHFLOW - WASTEWATER INVESTMENT FEE FUND
20-Year Plan

FILE: Kingman2008
SCHEDULE: INVESTMENTS
DATE: 10/22/2008
RANGE: INV FEE1

Line No.	DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenue											
1	Investment Fees	$800,000	$740,054	$759,652	$781,021	$802,163	$823,747	$844,993	$865,809	$888,627	$907,497	$928,280
2	Participant Contribution	0	0	0	0	0	0	0	0	0	0	0
3	Utility Line Payback	0	0	0	0	0	0	0	0	0	0	0
4	Interest Income	90,000	55,551	28,349	8,151	1,203	1,540	3,315	1,550	955	304	17
5	**Total Revenue**	890,000	795,605	788,002	789,172	803,366	825,286	848,307	867,359	889,582	907,801	928,297
6												
	Expenditures											
7	Contingency	1,000,000	0	0	0	0	0	0	0	0	0	0
8	**Total Expenditures**	1,000,000	0	0	0	0	0	0	0	0	0	0
9	**Revenue Available for Debt Service**	(110,000)	795,605	788,002	789,172	803,366	825,286	848,307	867,359	889,582	907,801	928,297
	Debt Service											
10	Debt Service Payments - Existing	0	0	0	0	0	0	0	0	0	0	0
11	Debt Service Payments - New	0	0	0	0	0	0	0	0	0	0	0
12	Debt Service Payments - WIFA Hilltop	0	699,692	699,692	1,197,121	1,197,121	1,197,121	1,197,121	1,197,121	1,197,121	1,197,121	1,197,121
13	Debt Service Payments - WIFA Downtown	0	0	0	0	0	0	0	0	0	0	0
	Total Debt Service	0	699,692	699,692	1,197,121	1,197,121	1,197,121	1,197,121	1,197,121	1,197,121	1,197,121	1,197,121
14	***DSC Ratio (1)***	**N/A**	**1.14**	**1.13**	**0.66**	**0.67**	**0.69**	**0.71**	**0.72**	**0.74**	**0.76**	**0.78**
15	**Income Available After Debt Service**	(110,000)	95,913	88,309	(407,949)	(393,754)	(371,835)	(348,813)	(329,762)	(307,539)	(289,320)	(268,824)
	Other Cash Inflows/(Outflows)											
16	CIP Projects	(2,575,000)	(7,000,000)	(5,324,800)	0	0	0	0	0	0	0	0
17	Transfer From/(To) Debt Service Reserve Fund	0	0	(239,424)	(239,424)	(239,424)	(239,424)	(239,424)	0	0	0	0
18	Transer to KAT & Banks Airport ID	(15,000)	0	0	0	0	0	0	0	0	0	0
19	Loans (To) Operations Subfund	0	0	0	0	0	0	0	0	0	0	0
20	Loans From Operations Subfund	0	0	0	300,000	650,000	700,000	500,000	300,000	275,000	275,000	275,000
21	Transfer From Debt Service Reserve Fund	0	0	0	0	0	0	0	0	0	0	0
22	Bond/Loan Proceeds	0	0	0	0	0	0	0	0	0	0	0
23	WIFA Loan Proceeds - Hilltop WWTP	2,310,000	5,544,000	4,466,000	0	0	0	0	0	0	0	0
24	WIFA Loan Proceeds - Downtown WWTP	0	0	0	0	0	0	0	0	0	0	0
25	**Total Other Cash Inflows/(Outflows)**	(280,000)	(1,456,000)	(1,098,224)	60,576	410,576	460,576	260,576	300,000	275,000	275,000	275,000
26	**Increase /(Decrease) in Cash Balance**	(390,000)	(1,360,087)	(1,009,915)	(347,373)	16,822	88,741	(88,237)	(29,762)	(32,539)	(14,320)	6,176
27	**Beginning of Year Cash Balance**	3,167,539	2,777,539	1,417,452	407,537	60,164	76,986	165,727	77,490	47,728	15,190	869
28	**End of Year Cash Balance**	$2,777,539	$1,417,452	$407,537	$60,164	$76,986	$165,727	$77,490	$47,728	$15,190	$869	$7,046
29	**Debt Reserve (2)**	559,823	0	0	0	0	0	0	0	0	0	0
30	**Ending Unrestricted Cash Balance**	$2,217,716	$1,417,452	$407,537	$60,164	$76,986	$165,727	$77,490	$47,728	$15,190	$869	$7,046

(1) Target debt service coverage test calculated in Total Wastewater Fund
(2) Established separate operations and investment fee fund debt service reserve funds.

REDDAKCONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
PROJECTED INVESTMENT FEE REVENUE - WASTEWATER EXPANSION FUND
20-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**INVESTMENTS**
DATE:	**10/22/2008**
RANGE:	**INV FEE2**

DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Starting ERUs		12,962	13,470	13,972	14,468	14,958	15,441	15,918	16,388	16,852	17,307
Growth Rate		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%
New ERUs		508	502	496	490	484	477	470	464	455	448
Fee Per ERU (1)	$1,056	$1,456	$1,514	$1,575	$1,638	$1,703	$1,771	$1,842	$1,916	$1,993	$2,072
Revenue (1)	$800,000	$740,054	$759,652	$781,021	$802,163	$823,747	$844,993	$865,809	$888,627	$907,497	$928,280
Effective Month of Increase (2)		1	1	1	1	1	1	1	1	1	1

(1) Annual Investment Fee revenue based on equal annual growth and the effective month of the investment fee increase
(2) effective 1st day of month: 1=July 12=June

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT SERVICE RESERVE FUND
20-Year Plan

FILE: Kingman2008
SCHEDULE: RESERVES
DATE: 10/22/2008
RANGE: RESERVES1

DESCRIPTION	Projected									
	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Debt Service Reserve Requirement - Growth										
Existing Debt Issues (1)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Future Debt Issues - Growth										
FY 2008-09 Issues	$0	239,424	239,424	239,424	239,424	239,424				
FY 2009-10 Issues			0	0	0	0	0			
FY 2010-11 Issues				0	0	0	0	0		
FY 2011-12 Issues					0	0	0	0	0	
FY 2012-13 Issues						0	0	0	0	0
FY 2013-14 Issues							0	0	0	0
FY 2014-15 Issues								0	0	0
FY 2015-16 Issues									0	0
FY 2016-17 Issues										0
FY 2017-18 Issues										
FY 2018-19 Issues										
New Debt Issues Reserve Requirement		239,424	239,424	239,424	239,424	239,424	0	0	0	0
Total Requirement - Expansion	0	239,424	478,848	718,272	957,696	1,197,120	1,197,120	1,197,120	1,197,120	1,197,120
Beginning Balance	0	0	239,424	478,848	718,272	957,696	1,197,120	1,197,120	1,197,120	1,197,120
Existing Debt Retirement	0	0	0	0	0	0	0	0	0	0
Required Contribution	$0	$239,424	$239,424	$239,424	$239,424	$239,424	$0	$0	$0	$0
Debt Service Reserve Requirement - Non-Growth										
Existing Debt Issues (1)	$719,866	$719,866	$719,866	$0	$0	$0	$0	$0	$0	$0
Future Debt Issues - Non-Growth										
FY 2008-09 Issues		$526,897	$526,897	$526,897	$526,897	$526,897				
FY 2009-10 Issues			0	0	0	0	0			
FY 2010-11 Issues				0	0	0	0	0		
FY 2011-12 Issues					0	0	0	0	0	
FY 2012-13 Issues						0	0	0	0	0
FY 2013-14 Issues							0	0	0	0
FY 2014-15 Issues								0	0	0
FY 2015-16 Issues									0	0
FY 2016-17 Issues										0
FY 2017-18 Issues										0
FY 2018-19 Issues										
New Debt Issues Reserve Requirement		526,897	526,897	526,897	526,897	526,897	0	0	0	0
Total Requirement - Operations	719,866	1,246,763	1,773,660	2,300,557	2,107,588	2,634,485	2,634,485	2,634,485	2,634,485	2,634,485
Beginning Balance	0	719,866	1,246,763	1,773,660	1,759,304	2,107,588	2,634,485	2,634,485	2,634,485	2,634,485
Existing Debt Retirement	0	0	0	(541,253)	0	0	0	0	0	0
Required Contribution	719,866	526,897	526,897	526,897	348,284	526,897	0	0	0	0
Beginning of Year Cash Balance	$0	$0	$766,321	$1,547,968	$1,803,996	$2,427,783	$3,242,660	$3,307,513	$3,373,663	$3,441,137
Transfers From Operations		526,897	526,897	526,897	348,284	526,897	0	0	0	0
Transfers From Expansion	0	239,424	239,424	239,424	239,424	239,424	0	0	0	0
Existing Debt Retirement	0	0	0	(541,253)	0	0	0	0	0	0
Interest	0	0	15,326	30,959	36,080	48,556	64,853	66,150	67,473	68,823
Increase/(Decrease) in Cash Balance	0	766,321	781,647	256,027	623,787	814,877	64,853	66,150	67,473	68,823
End of Year Cash Balance	$0	$766,321	$1,547,968	$1,803,996	$2,427,783	$3,242,660	$3,307,513	$3,373,663	$3,441,137	$3,509,959

(1) City Requirement of 1.33 times Annual Debt Service Payment.

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER CIP - CURRENT $
20-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP1A

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
DTWWTP - Modifications (ADEQ Required)	0%	100%	$300,000	$1,600,000	$7,000,000	$0	$0	$0	$0
Downtown Sewer Line Replace/Realign	0%	100%	0	0	500,000	500,000	0	0	0
Mohave Channel Trunk Sewer	75%	25%	500,000	0	0	0	0	0	0
HTWWTP Upgrades & Expansion	40%	60%	5,500,000	17,500,000	12,800,000	0	0	0	0
Future CIP	0%	100%	0	0	0	166,667	166,667	166,667	166,667
Total CIP			**$6,300,000**	**$19,100,000**	**$20,300,000**	**$666,667**	**$166,667**	**$166,667**	**$166,667**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER CIP - INFLATED $
20-Year Plan

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
DTWWTP - Modifications (ADEQ Required)	0%	100%	300,000	1,600,000	7,280,000	0	0	0	0
Downtown Sewer Line Replace/Realign	0%	100%	0	0	520,000	540,800	0	0	0
Mohave Channel Trunk Sewer	75%	25%	500,000	0	0	0	0	0	0
HTWWTP Upgrades & Expansion	40%	60%	5,500,000	17,500,000	13,312,000	0	0	0	0
Future CIP	0%	100%	0	0	0	180,267	187,477	194,976	202,775
Total CIP			**$6,300,000**	**$19,100,000**	**$21,112,000**	**$721,067**	**$187,477**	**$194,976**	**$202,775**

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER CIP - CURRENT $
20-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**CIP**
DATE:	**10/22/2008**
RANGE:	**CIP1B**

	Growth	Non-Growth	Projected FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
DTWWTP - Modifications (ADEQ Required)	0%	100%	$0	$0	$0	$0	$8,900,000
Downtown Sewer Line Replace/Realign	0%	100%	0	0	0	0	1,000,000
Mohave Channel Trunk Sewer	75%	25%	0	0	0	0	500,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	35,800,000
Future CIP	0%	100%	166,667	166,667	166,667	166,667	1,333,333
Total CIP			**$166,667**	**$166,667**	**$166,667**	**$166,667**	**$47,533,333**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER CIP - INFLATED $
20-Year Plan

	Growth	Non-Growth	Projected FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
DTWWTP - Modifications (ADEQ Required)	0%	100%	0	0	0	0	9,180,000
Downtown Sewer Line Replace/Realign	0%	100%	0	0	0	0	1,060,800
Mohave Channel Trunk Sewer	75%	25%	0	0	0	0	500,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	36,312,000
Future CIP	0%	100%	210,887	219,322	228,095	237,219	1,661,018
Total CIP			**$210,887**	**$219,322**	**$228,095**	**$237,219**	**$48,713,818**

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GROWTH WASTEWATER CIP - CURRENT $
20-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP2

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
Mohave Channel Trunk Sewer	75%	25%	$375,000	$0	$0	$0	$0	$0	$0
HTWWTP Upgrades & Expansion	40%	60%	2,200,000	7,000,000	5,120,000	0	0	0	0
Total Growth CIP			**$2,575,000**	**$7,000,000**	**$5,120,000**	**$0**	**$0**	**$0**	**$0**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GROWTH WASTEWATER CIP - INFLATED $
20-Year Plan

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
Mohave Channel Trunk Sewer	75%	25%	$375,000	$0	$0	$0	$0	$0	$0
HTWWTP Upgrades & Expansion	40%	60%	2,200,000	7,000,000	5,324,800	0	0	0	0
Total Growth CIP			**$2,575,000**	**$7,000,000**	**$5,324,800**	**$0**	**$0**	**$0**	**$0**

REDDAKCONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GROWTH WASTEWATER CIP - CURRENT $
20-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**CIP**
DATE:	**10/22/2008**
RANGE:	**CIP2B**

			Projected				
	Growth	**Non-Growth**	**FY 2015-16**	**FY 2016-17**	**FY 2017-18**	**FY 2018-19**	**Total**
Mohave Channel Trunk Sewer	75%	25%	$0	$0	$0	$0	$375,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	14,320,000
Total Growth CIP			**$0**	**$0**	**$0**	**$0**	**$14,695,000**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GROWTH WASTEWATER CIP - INFLATED $
20-Year Plan

			Projected				
	Growth	**Non-Growth**	**FY 2015-16**	**FY 2016-17**	**FY 2017-18**	**FY 2018-19**	**Total**
Mohave Channel Trunk Sewer	75%	25%	$0	$0	$0	$0	$375,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	14,524,800
Total Growth CIP			**$0**	**$0**	**$0**	**$0**	**$14,899,800**

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
NON-GROWTH WASTEWATER CIP - CURRENT $
20-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP3A

	Growth	Non-Growth	Budget	Projected					
			FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
DTWWTP - Modifications (ADEQ Required)	0%	100%	300,000	1,600,000	7,000,000	0	0	0	0
Downtown Sewer Line Replace/Realign	0%	100%	0	0	500,000	500,000	0	0	0
Mohave Channel Trunk Sewer	75%	25%	125,000	0	0	0	0	0	0
HTWWTP Upgrades & Expansion	40%	60%	3,300,000	10,500,000	7,680,000	0	0	0	0
Future CIP	0%	100%	0	0	0	166,667	166,667	166,667	166,667
Total Non-Growth CIP			**$3,725,000**	**$12,100,000**	**$15,180,000**	**$666,667**	**$166,667**	**$166,667**	**$166,667**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
NON-GROWTH WASTEWATER CIP - INFLATED $
20-Year Plan

	Growth	Non-Growth	Budget	Projected					
			FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
DTWWTP - Modifications (ADEQ Required)	0%	100%	300,000	1,600,000	7,280,000	0	0	0	0
Downtown Sewer Line Replace/Realign	0%	100%	0	0	520,000	540,800	0	0	0
Mohave Channel Trunk Sewer	75%	25%	125,000	0	0	0	0	0	0
HTWWTP Upgrades & Expansion	40%	60%	3,300,000	10,500,000	7,987,200	0	0	0	0
Future CIP	0%	100%	0	0	0	180,267	187,477	194,976	202,775
Total Non-Growth CIP			**$3,725,000**	**$12,100,000**	**$15,787,200**	**$721,067**	**$187,477**	**$194,976**	**$202,775**

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
NON-GROWTH WASTEWATER CIP - CURRENT $
20-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP3B

	Growth	Non-Growth	Projected FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
DTWWTP - Modifications (ADEQ Required)	0%	100%	0	0	0	0	8,900,000
Downtown Sewer Line Replace/Realign	0%	100%	0	0	0	0	1,000,000
Mohave Channel Trunk Sewer	75%	25%	0	0	0	0	125,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	21,480,000
Future CIP	0%	100%	166,667	166,667	166,667	166,667	1,333,333
Total Non-Growth CIP			**$166,667**	**$166,667**	**$166,667**	**$166,667**	**$32,838,333**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
NON-GROWTH WASTEWATER CIP - INFLATED $
20-Year Plan

	Growth	Non-Growth	Projected FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
DTWWTP - Modifications (ADEQ Required)	0%	100%	0	0	0	0	9,180,000
Downtown Sewer Line Replace/Realign	0%	100%	0	0	0	0	1,060,800
Mohave Channel Trunk Sewer	75%	25%	0	0	0	0	125,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	21,787,200
Future CIP	0%	100%	210,887	219,322	228,095	237,219	1,661,018
Total Non-Growth CIP			**$210,887**	**$219,322**	**$228,095**	**$237,219**	**$33,814,018**

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - EXISTING NON-GROWTH
20-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT1

EXISITNG DEBT SERVICE PAYMENTS	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Existing WIFA Bond	$541,253	$541,253	$541,253	$541,253	$0	$0	$0	$0	$0	$0
Total	$541,253	$541,253	$541,253	$541,253	$0	$0	$0	$0	$0	$0

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CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Hilltop WWTP Expansion
20-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT2

DEBT SERVICE PAYMENT		*Projected*									
		FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
FY 2008-09	SERIES	$0	$1,749,231	$1,749,231	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802
FY 2009-10	SERIES		0	0	0	0	0	0	0	0	0
FY 2010-11	SERIES			0	0	0	0	0	0	0	0
FY 2011-12	SERIES				0	0	0	0	0	0	0
FY 2012-13	SERIES					0	0	0	0	0	0
FY 2013-14	SERIES						0	0	0	0	0
FY 2014-15	SERIES							0	0	0	0
FY 2015-16	SERIES								0	0	0
FY 2016-17	SERIES									0	0
FY 2017-18	SERIES										0
FY 2018-19	SERIES										
Total Proposed Debt Service		$0	$1,749,231	$1,749,231	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802
Growth P&I	FY 2008-09	0	$699,692	$699,692	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121
	FY 2009-10		0	0	0	0	0	0	0	0	0
	FY 2010-11			0	0	0	0	0	0	0	0
	FY 2011-12				0	0	0	0	0	0	0
	FY 2012-13					0	0	0	0	0	0
	FY 2013-14						0	0	0	0	0
	FY 2014-15							0	0	0	0
	FY 2015-16								0	0	0
	FY 2016-17									0	0
	FY 2017-18										0
	FY 2018-19										
Total Growth P&I		$0	$699,692	$699,692	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121
Non-Growth P&I	FY 2008-09	$0	$1,049,539	$1,049,539	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681
	FY 2009-10		0	0	0	0	0	0	0	0	0
	FY 2010-11			0	0	0	0	0	0	0	0
	FY 2011-12				0	0	0	0	0	0	0
	FY 2012-13					0	0	0	0	0	0
	FY 2013-14						0	0	0	0	0
	FY 2014-15							0	0	0	0
	FY 2015-16								0	0	0
	FY 2016-17									0	0
	FY 2017-18										0
	FY 2018-19										
Total Non-Growth P&I		$0	$1,049,539	$1,049,539	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681

Growth Proceeds % 40%
Non-Growth Proceeds % 60%

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Hilltop WWTP Expansion
20-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT2B

DEBT SERVICE PAYMENT		*Projected* FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
FY 2008-09	SERIES	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802
FY 2009-10	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2010-11	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2011-12	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2012-13	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2013-14	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2014-15	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2015-16	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2016-17	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2017-18	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2018-19	SERIES	0	0	0	0	0	0	0	0	0	0	0
Total Proposed Debt Service		$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802	$2,992,802
Growth P&I	FY 2008-09	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121
	FY 2009-10	0	0	0	0	0	0	0	0	0	0	0
	FY 2010-11	0	0	0	0	0	0	0	0	0	0	0
	FY 2011-12	0	0	0	0	0	0	0	0	0	0	0
	FY 2012-13	0	0	0	0	0	0	0	0	0	0	0
	FY 2013-14	0	0	0	0	0	0	0	0	0	0	0
	FY 2014-15	0	0	0	0	0	0	0	0	0	0	0
	FY 2015-16	0	0	0	0	0	0	0	0	0	0	0
	FY 2016-17	0	0	0	0	0	0	0	0	0	0	0
	FY 2017-18	0	0	0	0	0	0	0	0	0	0	0
	FY 2018-19	0	0	0	0	0	0	0	0	0	0	0
Total Growth P&I		$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121	$1,197,121
Non-Growth P&I	FY 2008-09	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681
	FY 2009-10	0	0	0	0	0	0	0	0	0	0	0
	FY 2010-11	0	0	0	0	0	0	0	0	0	0	0
	FY 2011-12	0	0	0	0	0	0	0	0	0	0	0
	FY 2012-13	0	0	0	0	0	0	0	0	0	0	0
	FY 2013-14	0	0	0	0	0	0	0	0	0	0	0
	FY 2014-15	0	0	0	0	0	0	0	0	0	0	0
	FY 2015-16	0	0	0	0	0	0	0	0	0	0	0
	FY 2016-17	0	0	0	0	0	0	0	0	0	0	0
	FY 2017-18	0	0	0	0	0	0	0	0	0	0	0
	FY 2018-19	0	0	0	0	0	0	0	0	0	0	0
Total Non-Growth P&I		$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681	$1,795,681

Growth Proceeds % 40%
Non-Growth Proceeds % 60%

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Downtown WWTP Expansion
20-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT3

DEBT SERVICE PAYMENT		*Projected* FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
FY 2008-09	SERIES	$0	$490,000	$490,000	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353
FY 2009-10	SERIES		0	0	0	0	0	0	0	0	0
FY 2010-11	SERIES			0	0	0	0	0	0	0	0
FY 2011-12	SERIES				0	0	0	0	0	0	0
FY 2012-13	SERIES					0	0	0	0	0	0
FY 2013-14	SERIES						0	0	0	0	0
FY 2014-15	SERIES							0	0	0	0
FY 2015-16	SERIES								0	0	0
FY 2016-17	SERIES									0	0
FY 2017-18	SERIES										0
FY 2018-19	SERIES										
Total Proposed Debt Service		$0	$490,000	$490,000	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353
Growth P&I	FY 2008-09	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	FY 2009-10		0	0	0	0	0	0	0	0	0
	FY 2010-11			0	0	0	0	0	0	0	0
	FY 2011-12				0	0	0	0	0	0	0
	FY 2012-13					0	0	0	0	0	0
	FY 2013-14						0	0	0	0	0
	FY 2014-15							0	0	0	0
	FY 2015-16								0	0	0
	FY 2016-17									0	0
	FY 2017-18										0
	FY 2018-19										
Total Growth P&I		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non-Growth P&I	FY 2008-09	$0	$490,000	$490,000	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353
	FY 2009-10		0	0	0	0	0	0	0	0	0
	FY 2010-11			0	0	0	0	0	0	0	0
	FY 2011-12				0	0	0	0	0	0	0
	FY 2012-13					0	0	0	0	0	0
	FY 2013-14						0	0	0	0	0
	FY 2014-15							0	0	0	0
	FY 2015-16								0	0	0
	FY 2016-17									0	0
	FY 2017-18										0
	FY 2018-19										
Total Non-Growth P&I		$0	$490,000	$490,000	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353

Growth Proceeds % 0%
Non-Growth Proceeds % 100%

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Downtown WWTP Expansio
20-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT3B

DEBT SERVICE PAYMENT		Projected										
		FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
FY 2008-09	SERIES	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353
FY 2009-10	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2010-11	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2011-12	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2012-13	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2013-14	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2014-15	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2015-16	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2016-17	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2017-18	SERIES	0	0	0	0	0	0	0	0	0	0	0
FY 2018-19	SERIES	0	0	0	0	0	0	0	0	0	0	0
Total Proposed Debt Service		$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353
Growth P&I	FY 2008-09	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	FY 2009-10	0	0	0	0	0	0	0	0	0	0	0
	FY 2010-11	0	0	0	0	0	0	0	0	0	0	0
	FY 2011-12	0	0	0	0	0	0	0	0	0	0	0
	FY 2012-13	0	0	0	0	0	0	0	0	0	0	0
	FY 2013-14	0	0	0	0	0	0	0	0	0	0	0
	FY 2014-15	0	0	0	0	0	0	0	0	0	0	0
	FY 2015-16	0	0	0	0	0	0	0	0	0	0	0
	FY 2016-17	0	0	0	0	0	0	0	0	0	0	0
	FY 2017-18	0	0	0	0	0	0	0	0	0	0	0
	FY 2018-19	0	0	0	0	0	0	0	0	0	0	0
Total Growth P&I		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non-Growth P&I	FY 2008-09	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353
	FY 2009-10	0	0	0	0	0	0	0	0	0	0	0
	FY 2010-11	0	0	0	0	0	0	0	0	0	0	0
	FY 2011-12	0	0	0	0	0	0	0	0	0	0	0
	FY 2012-13	0	0	0	0	0	0	0	0	0	0	0
	FY 2013-14	0	0	0	0	0	0	0	0	0	0	0
	FY 2014-15	0	0	0	0	0	0	0	0	0	0	0
	FY 2015-16	0	0	0	0	0	0	0	0	0	0	0
	FY 2016-17	0	0	0	0	0	0	0	0	0	0	0
	FY 2017-18	0	0	0	0	0	0	0	0	0	0	0
	FY 2018-19	0	0	0	0	0	0	0	0	0	0	0
Total Non-Growth P&I		$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353	$838,353

Growth Proceeds % 0%
Non-Growth Proceeds % 100%

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
INVESTMENT FEE CALCULATION
20-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**INV_FEE_CALC**
DATE:	**10/22/2008**
RANGE:	**INV_FEE_1**

	Investment Fee Calculation	
HTWWTP Upgrades & Expansion		$14,320,000
New Sewer Trunk Line in Mohave Channel		375,000
NPV of Future Interest Payments		7,563,199
Total Expansion Costs		$22,258,199
Treatment Plant Capacity - Millions Gallons Per Day	3,100,000	
Residential Billed Usage Per Month Per Account (2)	6,150	
Days Per Month	30.4	
Residential Usage Per Day	202	
Equivalent Residential Units (ERUs) Served	15,324	15,324
Investment Fee Per ERU		$1,452.55
Fixture Units Per ERU		16
Investment Fee Per Fixture Unit		$91.00
Current Investment Fee		$66.00
Increase/ Decrease - $		$25.00
Increase/ Decrease - %		38%

REDOAK CONSULTING

City of Kingman
Water and Wastewater Rates and Investment Fee Study

Appendix E: Wastewater 30-Year Debt Plan

REDOAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

5204-003 / DEN

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DECISION CRITERIA - WASTEWATER
30-Year Plan

FILE: Kingman2008
SCHEDULE: DECISIONS
DATE: 10/22/2008
RANGE: DEC CRIT1A

DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
Rate Increase	48%	50%	0%	0%	-13%	0%	-5%	0%
Effective Month of Increase	7	1	1	1	1	1	1	1
(effective 1st day of month: 1=July 12=June)								
Monthly Residential Bill (Based on 6,150 Gallons)	$21.37	$32.06	$32.06	$32.06	$27.89	$27.89	$26.50	$26.50
Investment Fee Increase	0%	38%	4%	4%	4%	4%	4%	4%
Single-Family Residential Fee (per fixture unit)	$66	$91	$95	$98	$102	$106	$111	$115
Bond/Loan Proceeds								
Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0
Investment Fee Subfund	0	0	0	0	0	0	0	0
WIFA Loan Proceeds	6,105,337	15,621,798	18,872,865	0	0	0	0	0
Total Fund	$0	$0	$0	$0	$0	$0	$0	$0
Loans To Investment Fee Subfund								
(From) Operations Subfund								
Annual	$0	$0	$0	$0	$350,000	$200,000	$295,000	$75,000
Payments	0	0	0	0	0	0	0	0
Loans To Operations Subfund								
(From) Investment Fee Subfund	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0
Working Capital Reserve Ratio - Operations Fund [1]	66%	15%	9%	37%	36%	30%	28%	36%
Total Fund Debt Service Coverage Ratio - Total Fund [2]	2.19	1.97	2.02	1.60	1.61	1.62	1.56	1.60
Reserve Balances - End of Year								
Operations	$1,131,736	$270,332	$159,708	$733,585	$756,417	$686,397	$660,659	$890,781
Expansion Fund	2,217,716	1,417,452	459,101	122,141	149,584	49,160	62,973	65,740
Debt Service Reserve	0	601,211	1,214,446	1,298,693	1,747,265	2,383,421	2,431,089	2,479,711
Total Fund	$3,349,452	$2,288,995	$1,833,254	$2,154,420	$2,653,265	$3,118,978	$3,154,722	$3,436,231
CIP Funded by Debt								
Cumulative Bonds/Loans	$6,105,337	$21,727,135	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000
Cumulative % of CIP Funded by Debt	97%	86%	87%	86%	86%	85%	85%	85%
Capital Improvement Plan								
Capital Improvement Plan	$6,300,000	$19,100,000	$21,112,000	$721,067	$187,477	$194,976	$202,775	$210,887
Cumulative CIP Amount	$6,300,000	$25,400,000	$46,512,000	$47,233,067	$47,420,544	$47,615,520	$47,818,296	$48,029,182

[1] Target reserve: 25% Working Capital Reserve as a percent of Operating Expenditures
[2] Revenue Bond debt service coverage target: 1.33

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DECISION CRITERIA - WASTEWATER
30-Year Plan

FILE: Kingman2008
SCHEDULE: DECISIONS
DATE: 10/22/2008
RANGE: DEC CRIT1B

DESCRIPTION	Projected							
	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Rate Increase	-6%	0%	0%	0%	0%	0%	0%	0%
Effective Month of Increase	1	1	1	1	1	1	1	1
(effective 1st day of month: 1=July 12=June)								
Monthly Residential Bill	$24.91	$24.91	$24.91	$24.91	$24.91	$24.91	$24.91	$24.91
(Based on 6,150 Gallons)								
Investment Fee Increase	4%	4%	4%	4%	4%	4%	4%	4%
Single-Family Residential Fee (per fixture unit)	$120	$125	$130	$135	$140	$146	$152	$158
Bond/Loan Proceeds								
Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0
Investment Fee Subfund	0	0	0	0	0	0	0	0
WIFA Loan Proceeds	0	0	0	0	0	0	0	0
Total Fund	$0	$0	$0	$0	$0	$0	$0	$0
Loans To Investment Fee Subfund								
(From) Operations Subfund								
Annual	$50,000	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	(25,000)	(25,000)	(25,000)	(25,000)	(50,000)
Loans To Operations Subfund								
(From) Investment Fee Subfund	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0
Working Capital Reserve Ratio - Operations Fund [1]	31%	28%	26%	33%	40%	46%	50%	55%
Total Fund Debt Service Coverage Ratio - Total Fund [2]	1.51	1.54	1.58	1.61	1.64	1.67	1.69	1.71
Reserve Balances - End of Year								
Operations	$786,639	$740,315	$694,845	$913,459	$1,130,580	$1,336,621	$1,521,958	$1,701,232
Expansion Fund	66,379	35,901	25,597	10,130	12,543	32,102	67,906	92,752
Debt Service Reserve	2,529,305	2,579,891	2,631,489	2,684,119	2,737,801	2,792,557	2,848,408	2,905,377
Total Fund	$3,382,323	$3,356,108	$3,351,931	$3,607,708	$3,880,924	$4,161,281	$4,438,272	$4,699,360
CIP Funded by Debt								
Cumulative Bonds/Loans	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000
Cumulative % of CIP Funded by Debt	84%	84%	83%	83%	83%	83%	83%	83%
Capital Improvement Plan								
Capital Improvement Plan	$219,322	$228,095	$237,219	$0	$0	$0	$0	$0
Cumulative CIP Amount	$48,248,504	$48,476,599	$48,713,818	$48,713,818	$48,713,818	$48,713,818	$48,713,818	$48,713,818

[1] Target reserve: 25% Working Capital Reserve as a percent of Operating Expenditures
[2] Revenue Bond debt service coverage target: 1.33

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DECISION CRITERIA - WASTEWATER
30-Year Plan

FILE: Kingman2008
SCHEDULE: DECISIONS
DATE: 10/22/2008
RANGE: DEC CRIT1C

DESCRIPTION	Projected								
	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33
Rate Increase	0%	0%	0%	0%	0%	0%	0%	0%	0%
Effective Month of Increase	1	1	1	1	1	1	1	1	1
(effective 1st day of month: 1=July 12=June)									
Monthly Residential Bill	$24.91	$24.91	$24.91	$24.91	$24.91	$24.91	$24.91	$24.91	$24.91
(Based on 6,150 Gallons)									
Investment Fee Increase	4%	4%	4%	4%	4%	4%	4%	4%	4%
Single-Family Residential Fee (per fixture unit)	$164	$170	$177	$184	$192	$199	$207	$216	$224
Bond/Loan Proceeds									
Operations Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0
Investment Fee Subfund	0	0	0	0	0	0	0	0	0
WIFA Loan Proceeds	0	0	0	0	0	0	0	0	0
Total Fund	$0	$0	$0	$0	$0	$0	$0	$0	$0
Loans To Investment Fee Subfund									
(From) Operations Subfund									
Annual	$0	$0	$0	$0	$0	$0	$0	$0	$0
Payments	(50,000)	(100,000)	(50,000)	(100,000)	(200,000)	(200,000)	(200,000)	(150,000)	(150,000)
Loans To Operations Subfund									
(From) Investment Fee Subfund	$0	$0	$0	$0	$0	$0	$0	$0	$0
Annual	$0	$0	$0	$0	$0	$0	$0	$0	$0
Payments	0	0	0	0	0	0	0	0	0
Working Capital Reserve Ratio - Operations Fund [1]	57%	60%	59%	57%	56%	52%	47%	37%	24%
Total Fund Debt Service Coverage Ratio - Total Fund [2]	1.74	1.75	1.77	1.78	1.80	0.00	0.00	0.00	0.00
Reserve Balances - End of Year									
Operations	$1,839,993	$1,976,122	$1,999,539	$1,996,787	$2,006,025	$1,888,114	$1,678,630	$1,322,993	$866,396
Expansion Fund	137,817	143,855	217,983	253,537	205,599	162,318	129,268	160,071	200,904
Debt Service Reserve	2,963,484	3,022,754	3,083,209	3,144,873	3,144,873	3,144,873	3,144,873	3,144,873	3,144,873
Total Fund	$4,941,294	$5,142,731	$5,300,731	$5,395,196	$5,356,497	$5,195,306	$4,952,771	$4,627,937	$4,212,173
CIP Funded by Debt									
Cumulative Bonds/Loans	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000	$40,600,000
Cumulative % of CIP Funded by Debt	83%	83%	83%	83%	83%	83%	83%	83%	83%
Capital Improvement Plan									
Capital Improvement Plan	$0	$0	$0	$0	$0	$0	$0	$0	$0
Cumulative CIP Amount	$48,713,818	$48,713,818	$48,713,818	$48,713,818	$48,713,818	$48,713,818	$48,713,818	$48,713,818	$48,713,818

[1] Target reserve: 25% Working Capital Reserve as a percent of Operating Expenditures
[2] Revenue Bond debt service coverage target: 1.33

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GENERAL INPUT SCHEDULE

FILE:	**Kingman2008**
SCHEDULE:	**INPUT**
DATE:	**10/22/2008**
RANGE:	**INPUT1**

1. General Model Parameters

FILE:	**Kingman2008**	
Enter Base Year (fiscal year)	**2008**	**FY 2008-09**

2. Operating Revenue	**Budget FY 2008-09**
Base Sewer Services	$751,700
Sewer Service - Flows	695,700
Sewer Service - BOD	511,400
Sewer Service - SS	430,500
Expansion Fees	0
Tap Fee	2,500
Engineering Fees	8,500
Miscellaneous Revenues	0
Interest Earnings	30,000
Beginning Balance	1,275,257
Total	$3,705,557

3. Operating Expenditures	**Budget FY 2008-09**
Personnel Expenses	$487,431
Supplies & Services	624,750
City and Internal Services	110,150
Subtotal	1,222,331
Cash Transfers:	
Engineering Adm Support-to Wtr Fund	507,395
General Fund Admin. Support	73,761
HURF Admin. Support	13,650
Benefits Reserve Fund	25,000
Airway Construction Fund	0
Trans. To: AZ State Const. Fund	0
Subtotal	619,806
Capital Outlay, Lease Purchases & Debt	384,200
Contingency	100,000
Total Operations Expenditures	$2,326,337

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CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GENERAL INPUT SCHEDULE

FILE:	**Kingman2008**
SCHEDULE:	**INPUT**
DATE:	**10/22/2008**
RANGE:	**INPUT2**

	4. System Expansion Fund	**Budget FY 2008-09**
	4a. Revenue	
460.7	Investment Fees	$800,000
365	Participant Contribution	0
	Utility Line Payback	0
394	WIFA Loan Proceeds	44,800,000
361	Interest Earnings	90,000
495	Beginning Fund Balance	3,167,539
	Total	48,857,539
	4b. Expenditures	
3720-5	DTWWTP - Modifications (ADEQ Required)	8,800,000
3720-5	Downtown Sewer Line Replace/Realign	1,000,000
	HTWWTP Upgrades & Expansion	35,000,000
	Mohave Channel Trunk Sewer	500,000
3720-5	WIFA/Debt Payments	506,253
	Total Projects	45,806,253
	Transfers to:	
	KAT & Banks Airport ID	15,000
9100-53	Cash Tfr to Contingency	0
9100-53	Contingency	1,000,000
	Total Expenditures	1,015,000
-4795	Required Debt Reserve	559,823
-4795	Available for Appropriation	1,476,463
	Ending Fund Balance	$0

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		Budget	Projected									
		FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Escalation Factors											
5.	O&M		3.00%	3.00%	10.00%	10.00%	10.00%	3.00%	3.00%	3.00%	3.00%	3.00%
	Miscellaneous CIP		3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
	CIP Inflation		4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
	Interest Earnings on Cash Balance		2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
	Miscellaneous Revenue		3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%

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6. Population

Area	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
City	**29,429**	30,583	31,722	32,848	33,960	35,058	36,141	37,208	38,261	39,295	40,312	41,311
Growth		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%	2.48%
County	**17,271**	17,575	17,875	18,171	18,463	18,752	19,037	19,317	19,594	19,866	20,134	20,396
Growth		1.76%	1.71%	1.66%	1.61%	1.57%	1.52%	1.47%	1.43%	1.39%	1.35%	1.30%
General Plan Area	46,700	48,158	49,597	51,019	52,423	53,810	55,178	56,525	57,855	59,161	60,446	61,707
		3.12%	2.99%	2.87%	2.75%	2.65%	2.54%	2.44%	2.35%	2.26%	2.17%	2.09%

	BUDGET YEAR	PROJECTED									
	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
City Accounts											
Residential	7,121	7,400	7,676	7,948	8,217	8,483	8,745	9,003	9,258	9,508	9,754
Non-Residential	858	892	925	958	990	1,022	1,054	1,085	1,115	1,146	1,175
Subtotal	7,979	8,292	8,601	8,906	9,207	9,505	9,799	10,088	10,374	10,654	10,930
New City Accounts											
Residential		279	276	272	269	266	262	258	255	250	246
Non-Residential		34	33	33	32	32	32	31	31	30	30
Subtotal		313	309	305	301	298	294	289	285	280	276
Percent Change From Prior Year		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%
County Accounts											
Residential	773	787	800	813	826	839	852	865	877	889	901
Non-Residential	126	128	130	132	134	136	138	140	142	144	146
Subtotal	899	915	930	945	960	975	990	1,005	1,019	1,033	1,047
New County Accounts											
Residential		14	13	13	13	13	13	13	12	12	12
Non-Residential		2	2	2	2	2	2	2	2	2	2
Subtotal		16	15	15	15	15	15	15	14	14	14
Percent Change From Prior Year		1.78%	1.64%	1.61%	1.59%	1.56%	1.54%	1.52%	1.39%	1.37%	1.36%
Total New Connections		16	15	15	15	15	15	15	14	14	14
Overall Growth Rate		3.70%	3.52%	3.36%	3.21%	3.08%	2.94%	2.82%	2.70%	2.58%	2.48%

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER FUND CASHFLOW
30-Year Plan

FILE: Kingman2008
SCHEDULE: TOTAL FUND
DATE: 10/22/2008
RANGE: TOTAL1

Line No.	DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenues											
1	City Service Revenue	$2,962,732	$6,392,751	$6,617,589	$6,839,980	$6,141,970	$6,330,864	$6,191,437	$6,366,063	$6,145,661	$6,304,444	$6,460,740
2	Investment Fee Revenue	800,000	740,054	759,652	781,021	802,163	823,747	844,993	865,809	888,627	907,497	928,280
3	Tap Fee	2,500	2,575	2,652	2,732	2,814	2,898	2,985	3,075	3,167	3,262	3,360
4	Engineering Fees	8,500	8,755	9,018	9,288	9,567	9,854	10,149	10,454	10,768	11,091	11,423
5	Interest Income	120,000	78,186	33,756	12,376	17,115	18,120	14,711	14,473	19,130	17,060	15,524
6	**Total Operating Revenues**	3,893,732	7,222,321	7,422,667	7,645,398	6,973,628	7,185,483	7,064,276	7,259,874	7,067,353	7,243,354	7,419,327
	Operating Expenditures											
7	Operations	1,222,331	1,259,001	1,296,771	1,426,448	1,569,093	1,726,002	1,777,782	1,831,116	1,886,049	1,942,631	2,000,910
8	Capital Outlay	384,200	395,726	407,598	419,826	432,420	445,393	458,755	472,518	486,693	501,294	516,333
9	Contingency	1,100,000	103,000	106,090	116,699	128,369	141,206	145,442	149,805	154,299	158,928	163,696
10	**Total Operating Expenditures**	2,706,531	1,757,727	1,810,459	1,962,973	2,129,882	2,312,601	2,381,979	2,453,438	2,527,042	2,602,853	2,680,938
11	**Revenue Available for Debt Service**	1,187,201	5,464,594	5,612,208	5,682,425	4,843,746	4,872,882	4,682,297	4,806,436	4,540,312	4,640,501	4,738,389
	Debt Service											
12	Debt Service Payments - Existing	541,253	541,253	541,253	541,253	0	0	0	0	0	0	0
13	Debt Service Payments - New	0	0	0	0	0	0	0	0	0	0	0
14	Debt Service Payments - WIFA Hilltop	0	1,749,231	1,749,231	2,348,256	2,348,256	2,348,256	2,348,256	2,348,256	2,348,256	2,348,256	2,348,256
15	Debt Service Payments - WIFA Downtown	0	490,000	490,000	657,801	657,801	657,800	657,801	657,801	657,801	657,801	657,801
16	**Total Debt Service**	541,253	2,780,484	2,780,484	3,547,310	3,006,057	3,006,056	3,006,057	3,006,057	3,006,057	3,006,057	3,006,057
17	***DSC Ratio***	**2.19**	**1.97**	**2.02**	**1.60**	**1.61**	**1.62**	**1.56**	**1.60**	**1.51**	**1.54**	**1.58**
18	**Income Available After All Debt Service**	645,948	2,684,110	2,831,724	2,135,115	1,837,689	1,866,826	1,676,240	1,800,379	1,534,255	1,634,444	1,732,332
	Other Cash Inflows/(Outflows)											
19	Engineering Adm. Support-to Wtr Fund	(507,395)	(532,765)	(559,403)	(587,373)	(616,742)	(647,579)	(679,958)	(713,955)	(749,653)	(787,136)	(826,493)
20	Engineering Adm. Support-to Wtr Fund	(150,000)	(157,500)	(165,375)	(173,644)	(182,326)	(191,442)	(201,014)	(211,065)	(221,618)	(232,699)	(244,334)
21	General Fund Admin. Support	(73,761)	(75,974)	(78,253)	(86,078)	(94,686)	(104,155)	(107,279)	(110,498)	(113,813)	(117,227)	(120,744)
22	HURF Admin. Support	(13,650)	(14,060)	(14,481)	(15,929)	(17,522)	(19,275)	(19,853)	(20,448)	(21,062)	(21,694)	(22,345)
23	Benefits Reserve Fund	(25,000)	(25,750)	(26,523)	(29,175)	(32,092)	(35,301)	(36,360)	(37,451)	(38,575)	(39,732)	(40,924)
24	CIP	(6,300,000)	(19,100,000)	(21,112,000)	(721,067)	(187,477)	(194,976)	(202,775)	(210,887)	(219,322)	(228,095)	(237,219)
25	Capital Renewal	(200,000)	(208,000)	(216,320)	(224,973)	(233,972)	(243,331)	(253,064)	(263,186)	(273,714)	(284,662)	(296,049)
26	Transer to KAT & Banks Airport ID	(15,000)	0	0	0	0	0	0	0	0	0	0
27	Transfer to Debt Service Reserve Fund	0	(413,351)	(601,211)	(601,211)	(422,598)	(601,211)	(187,860)	0	0	0	0
28	Transfer From Debt Service Reserve Fund	0	0	0	541,253	0	0	0	0	0	0	0
29	Bond/Loan Proceeds	0	0	0	0	0	0	0	0	0	0	0
30	WIFA Loan Proceeds - Hilltop WWTP	5,775,000	13,860,000	11,165,000	0	0	0	0	0	0	0	0
31	WIFA Loan Proceeds	330,337	1,761,798	7,707,865	0	0	0	0	0	0	0	0
32	**Total Other Cash Inflows/(Outflows)**	(1,179,469)	(4,905,601)	(3,900,700)	(1,898,197)	(1,787,415)	(2,037,270)	(1,688,164)	(1,567,491)	(1,637,757)	(1,711,245)	(1,788,107)
33	**Increase /(Decrease) in Cash Balance**	(533,521)	(2,221,491)	(1,068,976)	236,918	50,274	(170,444)	(11,925)	232,888	(103,502)	(76,802)	(55,775)
34	**Beginning of Year Cash Balance**	4,442,796	3,909,275	1,687,784	618,808	855,727	906,001	735,557	723,632	956,520	853,018	776,216
35	**End of Year Cash Balance**	$3,909,275	$1,687,784	$618,808	$855,727	$906,001	$735,557	$723,632	$956,520	$853,018	$776,216	$720,441

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
CASHFLOW - WASTEWATER OPERATIONS
30-Year Plan

FILE: Kingman2008
SCHEDULE: OPERATIONS
DATE: 10/22/2008
RANGE: OPS1

Line No.	DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenues											
1	City Service Revenue	$2,962,732	$6,392,751	$6,617,589	$6,839,980	$6,141,970	$6,330,864	$6,191,437	$6,366,063	$6,145,661	$6,304,444	$6,460,740
2	Tap Fee	2,500	2,575	2,652	2,732	2,814	2,898	2,985	3,075	3,167	3,262	3,360
3	Engineering Fees	8,500	8,755	9,018	9,288	9,567	9,854	10,149	10,454	10,768	11,091	11,423
4	Misc. Revenue	0	0	0	0	0	0	0	0	0	0	0
5	Interest Income	30,000	22,635	5,407	3,194	14,672	15,128	13,728	13,213	17,816	15,733	14,806
6	**Total Operating Revenues**	3,003,732	6,426,715	6,634,666	6,855,194	6,169,022	6,358,745	6,218,300	6,392,805	6,177,411	6,334,529	6,490,330
	Operating Expenditures											
7	Operations	1,222,331	1,259,001	1,296,771	1,426,448	1,569,093	1,726,002	1,777,782	1,831,116	1,886,049	1,942,631	2,000,910
8	Capital Outlay	384,200	395,726	407,598	419,826	432,420	445,393	458,755	472,518	486,693	501,294	516,333
9	Contingency	100,000	103,000	106,090	116,699	128,369	141,206	145,442	149,805	154,299	158,928	163,696
10	**Total Operating Expenditures**	1,706,531	1,757,727	1,810,459	1,962,973	2,129,882	2,312,601	2,381,979	2,453,438	2,527,042	2,602,853	2,680,938
11	**Revenue Available for Debt Service**	1,297,201	4,668,988	4,824,207	4,892,222	4,039,140	4,046,144	3,836,320	3,939,367	3,650,370	3,731,676	3,809,391
	Debt Service											
12	Debt Service Payments - Existing	541,253	541,253	541,253	541,253	0	0	0	0	0	0	0
13	Debt Service Payments - New	0	0	0	0	0	0	0	0	0	0	0
14	Debt Service Payments - WIFA Hilltop	0	1,049,539	1,049,539	1,408,954	1,408,954	1,408,954	1,408,954	1,408,954	1,408,954	1,408,954	1,408,954
15	Debt Service Payments - WIFA Downtown	0	490,000	490,000	657,801	657,801	657,800	657,801	657,801	657,801	657,801	657,801
16	**Total Debt Service**	541,253	2,080,792	2,080,792	2,608,008	2,066,755	2,066,754	2,066,755	2,066,755	2,066,755	2,066,755	2,066,755
17	***DSC Ratio***	**2.40**	**2.24**	**2.32**	**1.88**	**1.95**	**1.96**	**1.86**	**1.91**	**1.77**	**1.81**	**1.84**
18	**Income Available After All Debt Service**	755,948	2,588,197	2,743,415	2,284,214	1,972,386	1,979,390	1,769,566	1,872,612	1,583,615	1,664,922	1,742,637
	Other Cash Inflows/(Outflows)											
19	Engineering Adm Support-to Wtr Fund	(507,395)	(532,765)	(559,403)	(587,373)	(616,742)	(647,579)	(679,958)	(713,955)	(749,653)	(787,136)	(826,493)
20	Transfer Out: Utility Billing Support - from Sewer	(150,000)	(157,500)	(165,375)	(173,644)	(182,326)	(191,442)	(201,014)	(211,065)	(221,618)	(232,699)	(244,334)
21	General Fund Admin. Support	(73,761)	(75,974)	(78,253)	(86,078)	(94,686)	(104,155)	(107,279)	(110,498)	(113,813)	(117,227)	(120,744)
22	HURF Admin. Support	(13,650)	(14,060)	(14,481)	(15,929)	(17,522)	(19,275)	(19,853)	(20,448)	(21,062)	(21,694)	(22,345)
23	Benefits Reserve Fund	(25,000)	(25,750)	(26,523)	(29,175)	(32,092)	(35,301)	(36,360)	(37,451)	(38,575)	(39,732)	(40,924)
24	Airway Construction Fund	0	0	0	0	0	0	0	0	0	0	0
25	Trans. To: AZ State Const. Fund	0	0	0	0	0	0	0	0	0	0	0
26	Non-Growth CIP	(3,725,000)	(12,100,000)	(15,787,200)	(721,067)	(187,477)	(194,976)	(202,775)	(210,887)	(219,322)	(228,095)	(237,219)
27	Capital Renewal	(200,000)	(208,000)	(216,320)	(224,973)	(233,972)	(243,331)	(253,064)	(263,186)	(273,714)	(284,662)	(296,049)
28	Loans (To) Investment Fee Subfund	0	0	0	0	(350,000)	(200,000)	(295,000)	(75,000)	(50,000)	0	0
29	Loans From Investment Fee Subfund	0	0	0	0	0	0	0	0	0	0	0
30	Transfer To Debt Service Reserve Fund	0	(413,351)	(413,351)	(413,351)	(234,737)	(413,351)	0	0	0	0	0
31	Transfer From Debt Service Reserve Fund	0	0	0	541,253	0	0	0	0	0	0	0
32	Bond/Loan Proceeds	0	0	0	0	0	0	0	0	0	0	0
33	WIFA Loan Proceeds - Hilltop WWTP	3,465,000	8,316,000	6,699,000	0	0	0	0	0	0	0	0
34	WIFA Loan Proceeds - Downtown WWTP	330,337	1,761,798	7,707,865	0	0	0	0	0	0	0	0
35	**Total Other Cash Inflows/(Outflows)**	(899,469)	(3,449,601)	(2,854,040)	(1,710,336)	(1,949,554)	(2,049,409)	(1,795,304)	(1,642,491)	(1,687,757)	(1,711,245)	(1,788,107)
36	**Increase /(Decrease) in Cash Balance**	(143,521)	(861,404)	(110,625)	573,878	22,831	(70,019)	(25,738)	230,121	(104,142)	(46,324)	(45,470)
37	**Beginning of Year Cash Balance**	1,275,257	1,131,736	270,332	159,708	733,585	756,417	686,397	660,659	890,781	786,639	740,315
38	**End of Year Cash Balance**	$1,131,736	$270,332	$159,708	$733,585	$756,417	$686,397	$660,659	$890,781	$786,639	$740,315	$694,845
39	**Working Capital Percent**	66%	15%	9%	37%	36%	30%	28%	36%	31%	28%	26%

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
PROJECTED RATE REVENUE - OPERATIONS FUND
30-Year Plan

FILE: Kingman2008
SCHEDULE: OPERATIONS
DATE: 10/22/2008
RANGE: OPS2

DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
City Service Revenue	$2,389,300	$4,109,596	$6,392,751	$6,617,589	$6,839,980	$6,141,970	$6,330,864	$6,191,437	$6,366,063	$6,145,661	$6,304,444
Monthly Charges	751,700										
Volume Charges	1,637,600										
Subtotal	2,389,300	4,109,596	6,392,751	6,617,589	6,839,980	6,141,970	6,330,864	6,191,437	6,366,063	6,145,661	6,304,444
Annual Growth	0	152,238	224,838	222,391	219,756	188,894	186,438	174,626	171,874	158,783	156,296
Rate Increase	573,432	2,130,917	0	0	(917,766)	0	(325,865)	0	(392,276)	0	0
Total	$2,962,732	$6,392,751	$6,617,589	$6,839,980	$6,141,970	$6,330,864	$6,191,437	$6,366,063	$6,145,661	$6,304,444	$6,460,740
Additional Revenue From Increase if Effective Entire Year	1,146,864	0	0	0	0	0	0	0	0	0	0
Annual Revenue Next Fiscal Year Before Growth and Increase	$4,109,596	$6,392,751	$6,617,589	$6,839,980	$6,141,970	$6,330,864	$6,191,437	$6,366,063	$6,145,661	$6,304,444	$6,460,740

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
CASHFLOW - WASTEWATER INVESTMENT FEE FUND
30-Year Plan

FILE: Kingman2008
SCHEDULE: INVESTMENTS
DATE: 10/22/2008
RANGE: INV FEE1

Line No.	DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Revenue											
1	Investment Fees	$800,000	$740,054	$759,652	$781,021	$802,163	$823,747	$844,993	$865,809	$888,627	$907,497	$928,280
2	Participant Contribution	0	0	0	0	0	0	0	0	0	0	0
3	Utility Line Payback	0	0	0	0	0	0	0	0	0	0	0
4	Interest Income	90,000	55,551	28,349	9,182	2,443	2,992	983	1,259	1,315	1,328	718
5	**Total Revenue**	890,000	795,605	788,002	790,203	804,606	826,738	845,976	867,069	889,942	908,824	928,998
6												
	Expenditures											
7	Contingency	1,000,000	0	0	0	0	0	0	0	0	0	0
8	**Total Expenditures**	1,000,000	0	0	0	0	0	0	0	0	0	0
9	**Revenue Available for Debt Service**	(110,000)	795,605	788,002	790,203	804,606	826,738	845,976	867,069	889,942	908,824	928,998
	Debt Service											
10	Debt Service Payments - Existing	0	0	0	0	0	0	0	0	0	0	0
11	Debt Service Payments - New	0	0	0	0	0	0	0	0	0	0	0
12	Debt Service Payments - WIFA Hilltop	0	699,692	699,692	939,302	939,302	939,302	939,302	939,302	939,302	939,302	939,302
13	Debt Service Payments - WIFA Downtown	0	0	0	0	0	0	0	0	0	0	0
	Total Debt Service	0	699,692	699,692	939,302	939,302	939,302	939,302	939,302	939,302	939,302	939,302
14	***DSC Ratio (1)***	**N/A**	**1.14**	**1.13**	**0.84**	**0.86**	**0.88**	**0.90**	**0.92**	**0.95**	**0.97**	**0.99**
15	**Income Available After Debt Service**	(110,000)	95,913	88,309	(149,099)	(134,696)	(112,564)	(93,326)	(72,233)	(49,360)	(30,478)	(10,305)
	Other Cash Inflows/(Outflows)											
16	CIP Projects	(2,575,000)	(7,000,000)	(5,324,800)	0	0	0	0	0	0	0	0
17	Transfer From/(To) Debt Service Reserve Fund	0	0	(187,860)	(187,860)	(187,860)	(187,860)	(187,860)	0	0	0	0
18	Transer to KAT & Banks Airport ID	(15,000)	0	0	0	0	0	0	0	0	0	0
19	Loans (To) Operations Subfund	0	0	0	0	0	0	0	0	0	0	0
20	Loans From Operations Subfund	0	0	0	0	350,000	200,000	295,000	75,000	50,000	0	0
21	Transfer From Debt Service Reserve Fund	0	0	0	0	0	0	0	0	0	0	0
22	Bond/Loan Proceeds	0	0	0	0	0	0	0	0	0	0	0
23	WIFA Loan Proceeds - Hilltop WWTP	2,310,000	5,544,000	4,466,000	0	0	0	0	0	0	0	0
24	WIFA Loan Proceeds - Downtown WWTP	0	0	0	0	0	0	0	0	0	0	0
25	**Total Other Cash Inflows/(Outflows)**	(280,000)	(1,456,000)	(1,046,660)	(187,860)	162,140	12,140	107,140	75,000	50,000	0	0
26	**Increase /(Decrease) in Cash Balance**	(390,000)	(1,360,087)	(958,351)	(336,959)	27,443	(100,425)	13,813	2,767	640	(30,478)	(10,305)
27	**Beginning of Year Cash Balance**	3,167,539	2,777,539	1,417,452	459,101	122,141	149,584	49,160	62,973	65,740	66,379	35,901
28	**End of Year Cash Balance**	$2,777,539	$1,417,452	$459,101	$122,141	$149,584	$49,160	$62,973	$65,740	$66,379	$35,901	$25,597
29	**Debt Reserve (2)**	559,823	0	0	0	0	0	0	0	0	0	0
30	**Ending Unrestricted Cash Balance**	$2,217,716	$1,417,452	$459,101	$122,141	$149,584	$49,160	$62,973	$65,740	$66,379	$35,901	$25,597

(1) Target debt service coverage test calculated in Total Wastewater Fund
(2) Established separate operations and investment fee fund debt service reserve funds.

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
PROJECTED INVESTMENT FEE REVENUE - WASTEWATER EXPANSION FUND
30-Year Plan

FILE: Kingman2008
SCHEDULE: INVESTMENTS
DATE: 10/22/2008
RANGE: INV FEE2

DESCRIPTION	Budget FY 2008-09	Projected FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Starting ERUs		12,962	13,470	13,972	14,468	14,958	15,441	15,918	16,388	16,852	17,307
Growth Rate		3.92%	3.72%	3.55%	3.39%	3.23%	3.09%	2.95%	2.83%	2.70%	2.59%
New ERUs		508	502	496	490	484	477	470	464	455	448
Fee Per ERU (1)	$1,056	$1,456	$1,514	$1,575	$1,638	$1,703	$1,771	$1,842	$1,916	$1,993	$2,072
Revenue (1)	$800,000	$740,054	$759,652	$781,021	$802,163	$823,747	$844,993	$865,809	$888,627	$907,497	$928,280
Effective Month of Increase (2)		1	1	1	1	1	1	1	1	1	1

(1) Annual Investment Fee revenue based on equal annual growth and the effective month of the investment fee increase
(2) effective 1st day of month: 1=July 12=June

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT SERVICE RESERVE FUND
30-Year Plan

FILE: Kingman2008
SCHEDULE: RESERVES
DATE: 10/22/2008
RANGE: RESERVES1

DESCRIPTION	Projected FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Debt Service Reserve Requirement - Growth										
Existing Debt Issues (1)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Future Debt Issues - Growth										
FY 2008-09 Issues	$0	187,860	187,860	187,860	187,860	187,860				
FY 2009-10 Issues			0	0	0	0	0			
FY 2010-11 Issues				0	0	0	0	0		
FY 2011-12 Issues					0	0	0	0	0	
FY 2012-13 Issues						0	0	0	0	0
FY 2013-14 Issues							0	0	0	0
FY 2014-15 Issues								0	0	0
FY 2015-16 Issues									0	0
FY 2016-17 Issues										0
FY 2017-18 Issues										
FY 2018-19 Issues										
New Debt Issues Reserve Requirement		187,860	187,860	187,860	187,860	187,860	0	0	0	0
Total Requirement - Expansion	0	187,860	375,721	563,581	751,442	939,302	939,302	939,302	939,302	939,302
Beginning Balance	0	0	187,860	375,721	563,581	751,442	939,302	939,302	939,302	939,302
Existing Debt Retirement	0	0	0	0	0	0	0	0	0	0
Required Contribution	$0	$187,860	$187,860	$187,860	$187,860	$187,860	$0	$0	$0	$0
Debt Service Reserve Requirement - Non-Growth										
Existing Debt Issues (1)	$719,866	$719,866	$719,866	$0	$0	$0	$0	$0	$0	$0
Future Debt Issues - Non-Growth										
FY 2008-09 Issues		$413,351	$413,351	$413,351	$413,351	$413,351				
FY 2009-10 Issues			0	0	0	0	0			
FY 2010-11 Issues				0	0	0	0	0		
FY 2011-12 Issues					0	0	0	0	0	
FY 2012-13 Issues						0	0	0	0	0
FY 2013-14 Issues							0	0	0	0
FY 2014-15 Issues								0	0	0
FY 2015-16 Issues									0	0
FY 2016-17 Issues										0
FY 2017-18 Issues										0
FY 2018-19 Issues										
New Debt Issues Reserve Requirement		413,351	413,351	413,351	413,351	413,351	0	0	0	0
Total Requirement - Operations	719,866	1,133,217	1,546,568	1,959,918	1,653,402	2,066,753	2,066,753	2,066,753	2,066,753	2,066,753
Beginning Balance	0	719,866	1,133,217	1,546,568	1,418,665	1,653,402	2,066,753	2,066,753	2,066,753	2,066,753
Existing Debt Retirement	0	0	0	(541,253)	0	0	0	0	0	0
Required Contribution	719,866	413,351	413,351	413,351	234,737	413,351	0	0	0	0
Beginning of Year Cash Balance	$0	$0	$601,211	$1,214,446	$1,298,693	$1,747,265	$2,383,421	$2,431,089	$2,479,711	$2,529,305
Transfers From Operations		413,351	413,351	413,351	234,737	413,351	0	0	0	0
Transfers From Expansion	0	187,860	187,860	187,860	187,860	187,860	0	0	0	0
Existing Debt Retirement	0	0	0	(541,253)	0	0	0	0	0	0
Interest	0	0	12,024	24,289	25,974	34,945	47,668	48,622	49,594	50,586
Increase/(Decrease) in Cash Balance	0	601,211	613,235	84,247	448,571	636,156	47,668	48,622	49,594	50,586
End of Year Cash Balance	$0	$601,211	$1,214,446	$1,298,693	$1,747,265	$2,383,421	$2,431,089	$2,479,711	$2,529,305	$2,579,891

(1) City Requirement of 1.33 times Annual Debt Service Payment.

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER CIP - CURRENT $
30-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP1A

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
DTWWTP - Modifications (ADEQ Required)	0%	100%	$300,000	$1,600,000	$7,000,000	$0	$0	$0	$0
Downtown Sewer Line Replace/Realign	0%	100%	0	0	500,000	500,000	0	0	0
Mohave Channel Trunk Sewer	75%	25%	500,000	0	0	0	0	0	0
HTWWTP Upgrades & Expansion	40%	60%	5,500,000	17,500,000	12,800,000	0	0	0	0
Future CIP	0%	100%	0	0	0	166,667	166,667	166,667	166,667
Total CIP			**$6,300,000**	**$19,100,000**	**$20,300,000**	**$666,667**	**$166,667**	**$166,667**	**$166,667**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER CIP - INFLATED $
30-Year Plan

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
DTWWTP - Modifications (ADEQ Required)	0%	100%	300,000	1,600,000	7,280,000	0	0	0	0
Downtown Sewer Line Replace/Realign	0%	100%	0	0	520,000	540,800	0	0	0
Mohave Channel Trunk Sewer	75%	25%	500,000	0	0	0	0	0	0
HTWWTP Upgrades & Expansion	40%	60%	5,500,000	17,500,000	13,312,000	0	0	0	0
Future CIP	0%	100%	0	0	0	180,267	187,477	194,976	202,775
Total CIP			**$6,300,000**	**$19,100,000**	**$21,112,000**	**$721,067**	**$187,477**	**$194,976**	**$202,775**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER CIP - CURRENT $
30-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP1B

	Growth	Non-Growth	Projected FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
DTWWTP - Modifications (ADEQ Required)	0%	100%	$0	$0	$0	$0	$8,900,000
Downtown Sewer Line Replace/Realign	0%	100%	0	0	0	0	1,000,000
Mohave Channel Trunk Sewer	75%	25%	0	0	0	0	500,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	35,800,000
Future CIP	0%	100%	166,667	166,667	166,667	166,667	1,333,333
Total CIP			**$166,667**	**$166,667**	**$166,667**	**$166,667**	**$47,533,333**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
TOTAL WASTEWATER CIP - INFLATED $
30-Year Plan

	Growth	Non-Growth	Projected FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
DTWWTP - Modifications (ADEQ Required)	0%	100%	0	0	0	0	9,180,000
Downtown Sewer Line Replace/Realign	0%	100%	0	0	0	0	1,060,800
Mohave Channel Trunk Sewer	75%	25%	0	0	0	0	500,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	36,312,000
Future CIP	0%	100%	210,887	219,322	228,095	237,219	1,661,018
Total CIP			**$210,887**	**$219,322**	**$228,095**	**$237,219**	**$48,713,818**

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GROWTH WASTEWATER CIP - CURRENT $
30-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP2

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
Mohave Channel Trunk Sewer	75%	25%	$375,000	$0	$0	$0	$0	$0	$0
HTWWTP Upgrades & Expansion	40%	60%	2,200,000	7,000,000	5,120,000	0	0	0	0
Total Growth CIP			**$2,575,000**	**$7,000,000**	**$5,120,000**	**$0**	**$0**	**$0**	**$0**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GROWTH WASTEWATER CIP - INFLATED $
30-Year Plan

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
Mohave Channel Trunk Sewer	75%	25%	$375,000	$0	$0	$0	$0	$0	$0
HTWWTP Upgrades & Expansion	40%	60%	2,200,000	7,000,000	5,324,800	0	0	0	0
Total Growth CIP			**$2,575,000**	**$7,000,000**	**$5,324,800**	**$0**	**$0**	**$0**	**$0**

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GROWTH WASTEWATER CIP - CURRENT $
30-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP2B

			Projected				
	Growth	Non-Growth	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
Mohave Channel Trunk Sewer	75%	25%	$0	$0	$0	$0	$375,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	14,320,000
Total Growth CIP			**$0**	**$0**	**$0**	**$0**	**$14,695,000**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
GROWTH WASTEWATER CIP - INFLATED $
30-Year Plan

			Projected				
	Growth	Non-Growth	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
Mohave Channel Trunk Sewer	75%	25%	$0	$0	$0	$0	$375,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	14,524,800
Total Growth CIP			**$0**	**$0**	**$0**	**$0**	**$14,899,800**

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
NON-GROWTH WASTEWATER CIP - CURRENT $
30-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP3A

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
DTWWTP - Modifications (ADEQ Required)	0%	100%	300,000	1,600,000	7,000,000	0	0	0	0
Downtown Sewer Line Replace/Realign	0%	100%	0	0	500,000	500,000	0	0	0
Mohave Channel Trunk Sewer	75%	25%	125,000	0	0	0	0	0	0
HTWWTP Upgrades & Expansion	40%	60%	3,300,000	10,500,000	7,680,000	0	0	0	0
Future CIP	0%	100%	0	0	0	166,667	166,667	166,667	166,667
Total Non-Growth CIP			**$3,725,000**	**$12,100,000**	**$15,180,000**	**$666,667**	**$166,667**	**$166,667**	**$166,667**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
NON-GROWTH WASTEWATER CIP - INFLATED $
30-Year Plan

			Budget	Projected					
	Growth	Non-Growth	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
DTWWTP - Modifications (ADEQ Required)	0%	100%	300,000	1,600,000	7,280,000	0	0	0	0
Downtown Sewer Line Replace/Realign	0%	100%	0	0	520,000	540,800	0	0	0
Mohave Channel Trunk Sewer	75%	25%	125,000	0	0	0	0	0	0
HTWWTP Upgrades & Expansion	40%	60%	3,300,000	10,500,000	7,987,200	0	0	0	0
Future CIP	0%	100%	0	0	0	180,267	187,477	194,976	202,775
Total Non-Growth CIP			**$3,725,000**	**$12,100,000**	**$15,787,200**	**$721,067**	**$187,477**	**$194,976**	**$202,775**

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
NON-GROWTH WASTEWATER CIP - CURRENT $
30-Year Plan

FILE: Kingman2008
SCHEDULE: CIP
DATE: 10/22/2008
RANGE: CIP3B

			Projected				
	Growth	Non-Growth	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
DTWWTP - Modifications (ADEQ Required)	0%	100%	0	0	0	0	8,900,000
Downtown Sewer Line Replace/Realign	0%	100%	0	0	0	0	1,000,000
Mohave Channel Trunk Sewer	75%	25%	0	0	0	0	125,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	21,480,000
Future CIP	0%	100%	166,667	166,667	166,667	166,667	1,333,333
Total Non-Growth CIP			**$166,667**	**$166,667**	**$166,667**	**$166,667**	**$32,838,333**

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
NON-GROWTH WASTEWATER CIP - INFLATED $
30-Year Plan

			Projected				
	Growth	Non-Growth	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Total
DTWWTP - Modifications (ADEQ Required)	0%	100%	0	0	0	0	9,180,000
Downtown Sewer Line Replace/Realign	0%	100%	0	0	0	0	1,060,800
Mohave Channel Trunk Sewer	75%	25%	0	0	0	0	125,000
HTWWTP Upgrades & Expansion	40%	60%	0	0	0	0	21,787,200
Future CIP	0%	100%	210,887	219,322	228,095	237,219	1,661,018
Total Non-Growth CIP			**$210,887**	**$219,322**	**$228,095**	**$237,219**	**$33,814,018**

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - EXISTING NON-GROWTH
30-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**DEBT**
DATE:	**10/22/2008**
RANGE:	**DEBT1**

	Budget							
EXISITNG DEBT SERVICE PAYMENTS	**FY 2008-09**	**FY 2009-10**	**FY 2010-11**	**FY 2011-12**	**FY 2012-13**	**FY 2013-14**	**FY 2014-15**	**FY 2015-16**
Existing WIFA Bond	$541,253	$541,253	$541,253	$541,253	$0	$0	$0	$0
Total	$541,253	$541,253	$541,253	$541,253	$0	$0	$0	$0

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Hilltop WWTP Expansion
30-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT2

DEBT SERVICE PAYMENT			*Projected*							
			FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
FY 2008-09	SERIES		$0	$1,749,231	$1,749,231	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256
FY 2009-10	SERIES			0	0	0	0	0	0	0
FY 2010-11	SERIES				0	0	0	0	0	0
FY 2011-12	SERIES					0	0	0	0	0
FY 2012-13	SERIES						0	0	0	0
FY 2013-14	SERIES							0	0	0
FY 2014-15	SERIES								0	0
FY 2015-16	SERIES									0
FY 2016-17	SERIES									
FY 2017-18	SERIES									
FY 2018-19	SERIES									
Total Proposed Debt Service			$0	$1,749,231	$1,749,231	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256
Growth P&I	FY 2008-09		0	$699,692	$699,692	$939,302	$939,302	$939,302	$939,302	$939,302
	FY 2009-10			0	0	0	0	0	0	0
	FY 2010-11				0	0	0	0	0	0
	FY 2011-12					0	0	0	0	0
	FY 2012-13						0	0	0	0
	FY 2013-14							0	0	0
	FY 2014-15								0	0
	FY 2015-16									0
	FY 2016-17									
	FY 2017-18									
	FY 2018-19									
Total Growth P&I			$0	$699,692	$699,692	$939,302	$939,302	$939,302	$939,302	$939,302
Non-Growth P&I	FY 2008-09		$0	$1,049,539	$1,049,539	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954
	FY 2009-10			0	0	0	0	0	0	0
	FY 2010-11				0	0	0	0	0	0
	FY 2011-12					0	0	0	0	0
	FY 2012-13						0	0	0	0
	FY 2013-14							0	0	0
	FY 2014-15								0	0
	FY 2015-16									0
	FY 2016-17									
	FY 2017-18									
	FY 2018-19									
Total Non-Growth P&I			$0	$1,049,539	$1,049,539	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954
Growth Proceeds %		40%								
Non-Growth Proceeds %		60%								

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Hilltop WWTP Expansion
30-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT2B

DEBT SERVICE PAYMENT			Projected							
			FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
FY 2008-09	SERIES		$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256
FY 2009-10	SERIES		0	0	0	0	0	0	0	0
FY 2010-11	SERIES		0	0	0	0	0	0	0	0
FY 2011-12	SERIES		0	0	0	0	0	0	0	0
FY 2012-13	SERIES		0	0	0	0	0	0	0	0
FY 2013-14	SERIES		0	0	0	0	0	0	0	0
FY 2014-15	SERIES		0	0	0	0	0	0	0	0
FY 2015-16	SERIES		0	0	0	0	0	0	0	0
FY 2016-17	SERIES		0	0	0	0	0	0	0	0
FY 2017-18	SERIES			0	0	0	0	0	0	0
FY 2018-19	SERIES				0	0	0	0	0	0
Total Proposed Debt Service			$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256
Growth P&I	FY 2008-09		$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302
	FY 2009-10		0	0	0	0	0	0	0	0
	FY 2010-11		0	0	0	0	0	0	0	0
	FY 2011-12		0	0	0	0	0	0	0	0
	FY 2012-13		0	0	0	0	0	0	0	0
	FY 2013-14		0	0	0	0	0	0	0	0
	FY 2014-15		0	0	0	0	0	0	0	0
	FY 2015-16		0	0	0	0	0	0	0	0
	FY 2016-17		0	0	0	0	0	0	0	0
	FY 2017-18			0	0	0	0	0	0	0
	FY 2018-19				0	0	0	0	0	0
Total Growth P&I			$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302
Non-Growth P&I	FY 2008-09		$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954
	FY 2009-10		0	0	0	0	0	0	0	0
	FY 2010-11		0	0	0	0	0	0	0	0
	FY 2011-12		0	0	0	0	0	0	0	0
	FY 2012-13		0	0	0	0	0	0	0	0
	FY 2013-14		0	0	0	0	0	0	0	0
	FY 2014-15		0	0	0	0	0	0	0	0
	FY 2015-16		0	0	0	0	0	0	0	0
	FY 2016-17		0	0	0	0	0	0	0	0
	FY 2017-18			0	0	0	0	0	0	0
	FY 2018-19				0	0	0	0	0	0
Total Non-Growth P&I			$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954
Growth Proceeds %		40%								
Non-Growth Proceeds %		60%								

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Hilltop WWTP Expansion
30-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT2C

DEBT SERVICE PAYMENT			Projected							
			FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
FY 2008-09	SERIES		$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256
FY 2009-10	SERIES		0	0	0	0	0	0	0	0
FY 2010-11	SERIES		0	0	0	0	0	0	0	0
FY 2011-12	SERIES		0	0	0	0	0	0	0	0
FY 2012-13	SERIES		0	0	0	0	0	0	0	0
FY 2013-14	SERIES		0	0	0	0	0	0	0	0
FY 2014-15	SERIES		0	0	0	0	0	0	0	0
FY 2015-16	SERIES		0	0	0	0	0	0	0	0
FY 2016-17	SERIES		0	0	0	0	0	0	0	0
FY 2017-18	SERIES		0	0	0	0	0	0	0	0
FY 2018-19	SERIES		0	0	0	0	0	0	0	0
Total Proposed Debt Service			$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256
Growth P&I	FY 2008-09		$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302
	FY 2009-10		0	0	0	0	0	0	0	0
	FY 2010-11		0	0	0	0	0	0	0	0
	FY 2011-12		0	0	0	0	0	0	0	0
	FY 2012-13		0	0	0	0	0	0	0	0
	FY 2013-14		0	0	0	0	0	0	0	0
	FY 2014-15		0	0	0	0	0	0	0	0
	FY 2015-16		0	0	0	0	0	0	0	0
	FY 2016-17		0	0	0	0	0	0	0	0
	FY 2017-18		0	0	0	0	0	0	0	0
	FY 2018-19		0	0	0	0	0	0	0	0
Total Growth P&I			$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302
Non-Growth P&I	FY 2008-09		$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954
	FY 2009-10		0	0	0	0	0	0	0	0
	FY 2010-11		0	0	0	0	0	0	0	0
	FY 2011-12		0	0	0	0	0	0	0	0
	FY 2012-13		0	0	0	0	0	0	0	0
	FY 2013-14		0	0	0	0	0	0	0	0
	FY 2014-15		0	0	0	0	0	0	0	0
	FY 2015-16		0	0	0	0	0	0	0	0
	FY 2016-17		0	0	0	0	0	0	0	0
	FY 2017-18		0	0	0	0	0	0	0	0
	FY 2018-19		0	0	0	0	0	0	0	0
Total Non-Growth P&I			$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954
Growth Proceeds %		40%								
Non-Growth Proceeds %		60%								

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Hilltop WWTP Expansion
30-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**DEBT**
DATE:	**10/22/2008**
RANGE:	**DEBT2D**

DEBT SERVICE PAYMENT		*Projected*						
		FY 2032-33	**FY 2033-34**	**FY 2034-35**	**FY 2035-36**	**FY 2036-37**	**FY 2037-38**	**FY 2038-39**
FY 2008-09	SERIES	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256
FY 2009-10	SERIES	0	0	0	0	0	0	0
FY 2010-11	SERIES	0	0	0	0	0	0	0
FY 2011-12	SERIES	0	0	0	0	0	0	0
FY 2012-13	SERIES	0	0	0	0	0	0	0
FY 2013-14	SERIES	0	0	0	0	0	0	0
FY 2014-15	SERIES	0	0	0	0	0	0	0
FY 2015-16	SERIES	0	0	0	0	0	0	0
FY 2016-17	SERIES	0	0	0	0	0	0	0
FY 2017-18	SERIES	0	0	0	0	0	0	0
FY 2018-19	SERIES	0	0	0	0	0	0	0
Total Proposed Debt Service		$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256	$2,348,256
Growth P&I	FY 2008-09	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302
	FY 2009-10	0	0	0	0	0	0	0
	FY 2010-11	0	0	0	0	0	0	0
	FY 2011-12	0	0	0	0	0	0	0
	FY 2012-13	0	0	0	0	0	0	0
	FY 2013-14	0	0	0	0	0	0	0
	FY 2014-15	0	0	0	0	0	0	0
	FY 2015-16	0	0	0	0	0	0	0
	FY 2016-17	0	0	0	0	0	0	0
	FY 2017-18	0	0	0	0	0	0	0
	FY 2018-19	0	0	0	0	0	0	0
Total Growth P&I		$939,302	$939,302	$939,302	$939,302	$939,302	$939,302	$939,302
Non-Growth P&I	FY 2008-09	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954
	FY 2009-10	0	0	0	0	0	0	0
	FY 2010-11	0	0	0	0	0	0	0
	FY 2011-12	0	0	0	0	0	0	0
	FY 2012-13	0	0	0	0	0	0	0
	FY 2013-14	0	0	0	0	0	0	0
	FY 2014-15	0	0	0	0	0	0	0
	FY 2015-16	0	0	0	0	0	0	0
	FY 2016-17	0	0	0	0	0	0	0
	FY 2017-18	0	0	0	0	0	0	0
	FY 2018-19	0	0	0	0	0	0	0
Total Non-Growth P&I		$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954	$1,408,954
Growth Proceeds %		40%						
Non-Growth Proceeds %		60%						

REDDAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Downtown WWTP Expansion
30-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT3

DEBT SERVICE PAYMENT			*Projected*							
			FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
FY 2008-09	SERIES		$0	$490,000	$490,000	$657,801	$657,801	$657,800	$657,801	$657,801
FY 2009-10	SERIES			0	0	0	0	0	0	0
FY 2010-11	SERIES				0	0	0	0	0	0
FY 2011-12	SERIES					0	0	0	0	0
FY 2012-13	SERIES						0	0	0	0
FY 2013-14	SERIES							0	0	0
FY 2014-15	SERIES								0	0
FY 2015-16	SERIES									0
FY 2016-17	SERIES									
FY 2017-18	SERIES									
FY 2018-19	SERIES									
Total Proposed Debt Service			$0	$490,000	$490,000	$657,801	$657,801	$657,800	$657,801	$657,801
Growth P&I	FY 2008-09		$0	$0	$0	$0	$0	$0	$0	$0
	FY 2009-10			0	0	0	0	0	0	0
	FY 2010-11				0	0	0	0	0	0
	FY 2011-12					0	0	0	0	0
	FY 2012-13						0	0	0	0
	FY 2013-14							0	0	0
	FY 2014-15								0	0
	FY 2015-16									0
	FY 2016-17									
	FY 2017-18									
	FY 2018-19									
Total Growth P&I			$0	$0	$0	$0	$0	$0	$0	$0
Non-Growth P&I	FY 2008-09		$0	$490,000	$490,000	$657,801	$657,801	$657,800	$657,801	$657,801
	FY 2009-10			0	0	0	0	0	0	0
	FY 2010-11				0	0	0	0	0	0
	FY 2011-12					0	0	0	0	0
	FY 2012-13						0	0	0	0
	FY 2013-14							0	0	0
	FY 2014-15								0	0
	FY 2015-16									0
	FY 2016-17									
	FY 2017-18									
	FY 2018-19									
Total Non-Growth P&I			$0	$490,000	$490,000	$657,801	$657,801	$657,800	$657,801	$657,801
Growth Proceeds %		0%								
Non-Growth Proceeds %		100%								

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Downtown WWTP Expansion
30-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT3B

			Projected		
DEBT SERVICE PAYMENT			**FY 2016-17**	**FY 2017-18**	**FY 2018-19**
FY 2008-09	SERIES		$657,801	$657,801	$657,801
FY 2009-10	SERIES		0	0	0
FY 2010-11	SERIES		0	0	0
FY 2011-12	SERIES		0	0	0
FY 2012-13	SERIES		0	0	0
FY 2013-14	SERIES		0	0	0
FY 2014-15	SERIES		0	0	0
FY 2015-16	SERIES		0	0	0
FY 2016-17	SERIES		0	0	0
FY 2017-18	SERIES			0	0
FY 2018-19	SERIES				0
Total Proposed Debt Service			$657,801	$657,801	$657,801
Growth P&I	FY 2008-09		$0	$0	$0
	FY 2009-10		0	0	0
	FY 2010-11		0	0	0
	FY 2011-12		0	0	0
	FY 2012-13		0	0	0
	FY 2013-14		0	0	0
	FY 2014-15		0	0	0
	FY 2015-16		0	0	0
	FY 2016-17		0	0	0
	FY 2017-18			0	0
	FY 2018-19				0
Total Growth P&I			$0	$0	$0
Non-Growth P&I	FY 2008-09		$657,801	$657,801	$657,801
	FY 2009-10		0	0	0
	FY 2010-11		0	0	0
	FY 2011-12		0	0	0
	FY 2012-13		0	0	0
	FY 2013-14		0	0	0
	FY 2014-15		0	0	0
	FY 2015-16		0	0	0
	FY 2016-17		0	0	0
	FY 2017-18			0	0
	FY 2018-19				0
Total Non-Growth P&I			$657,801	$657,801	$657,801
Growth Proceeds %		0%			
Non-Growth Proceeds %		100%			

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Downtown WWTP Expansion
30-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT3C

DEBT SERVICE PAYMENT			Projected							
			FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27
FY 2008-09	SERIES		$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801
FY 2009-10	SERIES		0	0	0	0	0	0	0	0
FY 2010-11	SERIES		0	0	0	0	0	0	0	0
FY 2011-12	SERIES		0	0	0	0	0	0	0	0
FY 2012-13	SERIES		0	0	0	0	0	0	0	0
FY 2013-14	SERIES		0	0	0	0	0	0	0	0
FY 2014-15	SERIES		0	0	0	0	0	0	0	0
FY 2015-16	SERIES		0	0	0	0	0	0	0	0
FY 2016-17	SERIES		0	0	0	0	0	0	0	0
FY 2017-18	SERIES		0	0	0	0	0	0	0	0
FY 2018-19	SERIES		0	0	0	0	0	0	0	0
Total Proposed Debt Service			$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801
Growth P&I	FY 2008-09		$0	$0	$0	$0	$0	$0	$0	$0
	FY 2009-10		0	0	0	0	0	0	0	0
	FY 2010-11		0	0	0	0	0	0	0	0
	FY 2011-12		0	0	0	0	0	0	0	0
	FY 2012-13		0	0	0	0	0	0	0	0
	FY 2013-14		0	0	0	0	0	0	0	0
	FY 2014-15		0	0	0	0	0	0	0	0
	FY 2015-16		0	0	0	0	0	0	0	0
	FY 2016-17		0	0	0	0	0	0	0	0
	FY 2017-18		0	0	0	0	0	0	0	0
	FY 2018-19		0	0	0	0	0	0	0	0
Total Growth P&I			$0	$0	$0	$0	$0	$0	$0	$0
Non-Growth P&I	FY 2008-09		$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801
	FY 2009-10		0	0	0	0	0	0	0	0
	FY 2010-11		0	0	0	0	0	0	0	0
	FY 2011-12		0	0	0	0	0	0	0	0
	FY 2012-13		0	0	0	0	0	0	0	0
	FY 2013-14		0	0	0	0	0	0	0	0
	FY 2014-15		0	0	0	0	0	0	0	0
	FY 2015-16		0	0	0	0	0	0	0	0
	FY 2016-17		0	0	0	0	0	0	0	0
	FY 2017-18		0	0	0	0	0	0	0	0
	FY 2018-19		0	0	0	0	0	0	0	0
Total Non-Growth P&I			$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801
Growth Proceeds %		0%								
Non-Growth Proceeds %		100%								

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CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Downtown WWTP Expansion
30-Year Plan

FILE: Kingman2008
SCHEDULE: DEBT
DATE: 10/22/2008
RANGE: DEBT3D

DEBT SERVICE PAYMENT			*Projected*							
			FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34	FY 2034-35
FY 2008-09	SERIES		$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801
FY 2009-10	SERIES		0	0	0	0	0	0	0	0
FY 2010-11	SERIES		0	0	0	0	0	0	0	0
FY 2011-12	SERIES		0	0	0	0	0	0	0	0
FY 2012-13	SERIES		0	0	0	0	0	0	0	0
FY 2013-14	SERIES		0	0	0	0	0	0	0	0
FY 2014-15	SERIES		0	0	0	0	0	0	0	0
FY 2015-16	SERIES		0	0	0	0	0	0	0	0
FY 2016-17	SERIES		0	0	0	0	0	0	0	0
FY 2017-18	SERIES		0	0	0	0	0	0	0	0
FY 2018-19	SERIES		0	0	0	0	0	0	0	0
Total Proposed Debt Service			$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801
Growth P&I	FY 2008-09		$0	$0	$0	$0	$0	$0	$0	$0
	FY 2009-10		0	0	0	0	0	0	0	0
	FY 2010-11		0	0	0	0	0	0	0	0
	FY 2011-12		0	0	0	0	0	0	0	0
	FY 2012-13		0	0	0	0	0	0	0	0
	FY 2013-14		0	0	0	0	0	0	0	0
	FY 2014-15		0	0	0	0	0	0	0	0
	FY 2015-16		0	0	0	0	0	0	0	0
	FY 2016-17		0	0	0	0	0	0	0	0
	FY 2017-18		0	0	0	0	0	0	0	0
	FY 2018-19		0	0	0	0	0	0	0	0
Total Growth P&I			$0	$0	$0	$0	$0	$0	$0	$0
Non-Growth P&I	FY 2008-09		$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801
	FY 2009-10		0	0	0	0	0	0	0	0
	FY 2010-11		0	0	0	0	0	0	0	0
	FY 2011-12		0	0	0	0	0	0	0	0
	FY 2012-13		0	0	0	0	0	0	0	0
	FY 2013-14		0	0	0	0	0	0	0	0
	FY 2014-15		0	0	0	0	0	0	0	0
	FY 2015-16		0	0	0	0	0	0	0	0
	FY 2016-17		0	0	0	0	0	0	0	0
	FY 2017-18		0	0	0	0	0	0	0	0
	FY 2018-19		0	0	0	0	0	0	0	0
Total Non-Growth P&I			$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801	$657,801
Growth Proceeds %		0%								
Non-Growth Proceeds %		100%								

REDOAK CONSULTING

CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
DEBT - WIFA: Downtown WWTP Expansion
30-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**DEBT**
DATE:	**10/22/2008**
RANGE:	**DEBT3E**

DEBT SERVICE PAYMENT			*Projected*			
			FY 2035-36	**FY 2036-37**	**FY 2037-38**	**FY 2038-39**
FY 2008-09	SERIES		$657,801	$657,801	$657,801	$657,801
FY 2009-10	SERIES		0	0	0	0
FY 2010-11	SERIES		0	0	0	0
FY 2011-12	SERIES		0	0	0	0
FY 2012-13	SERIES		0	0	0	0
FY 2013-14	SERIES		0	0	0	0
FY 2014-15	SERIES		0	0	0	0
FY 2015-16	SERIES		0	0	0	0
FY 2016-17	SERIES		0	0	0	0
FY 2017-18	SERIES		0	0	0	0
FY 2018-19	SERIES		0	0	0	0
Total Proposed Debt Service			$657,801	$657,801	$657,801	$657,801
Growth P&I	FY 2008-09		$0	$0	$0	$0
	FY 2009-10		0	0	0	0
	FY 2010-11		0	0	0	0
	FY 2011-12		0	0	0	0
	FY 2012-13		0	0	0	0
	FY 2013-14		0	0	0	0
	FY 2014-15		0	0	0	0
	FY 2015-16		0	0	0	0
	FY 2016-17		0	0	0	0
	FY 2017-18		0	0	0	0
	FY 2018-19		0	0	0	0
Total Growth P&I			$0	$0	$0	$0
Non-Growth P&I	FY 2008-09		$657,801	$657,801	$657,801	$657,801
	FY 2009-10		0	0	0	0
	FY 2010-11		0	0	0	0
	FY 2011-12		0	0	0	0
	FY 2012-13		0	0	0	0
	FY 2013-14		0	0	0	0
	FY 2014-15		0	0	0	0
	FY 2015-16		0	0	0	0
	FY 2016-17		0	0	0	0
	FY 2017-18		0	0	0	0
	FY 2018-19		0	0	0	0
Total Non-Growth P&I			$657,801	$657,801	$657,801	$657,801
Growth Proceeds %		0%				
Non-Growth Proceeds %		100%				

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CITY OF KINGMAN, ARIZONA
REVENUE STUDY - WASTEWATER
INVESTMENT FEE CALCULATION
30-Year Plan

FILE:	**Kingman2008**
SCHEDULE:	**INV_FEE_CALC**
DATE:	**10/22/2008**
RANGE:	**INV_FEE_1**

	Investment Fee Calculation	
HTWWTP Upgrades & Expansion		$14,320,000
New Sewer Trunk Line in Mohave Channel		375,000
NPV of Future Interest Payments		7,513,951
Total Expansion Costs		$22,208,951
Treatment Plant Capacity - Millions Gallons Per Day	3,100,000	
Residential Billed Usage Per Month Per Account (2)	6,150	
Days Per Month	30.4	
Residential Usage Per Day	202	
Equivalent Residential Units (ERUs) Served	15,324	15,324
Investment Fee Per ERU		$1,449.33
Fixture Units Per ERU		16
Investment Fee Per Fixture Unit		$91.00
Current Investment Fee		$66.00
Increase/ Decrease - $		$25.00
Increase/ Decrease - %		38%

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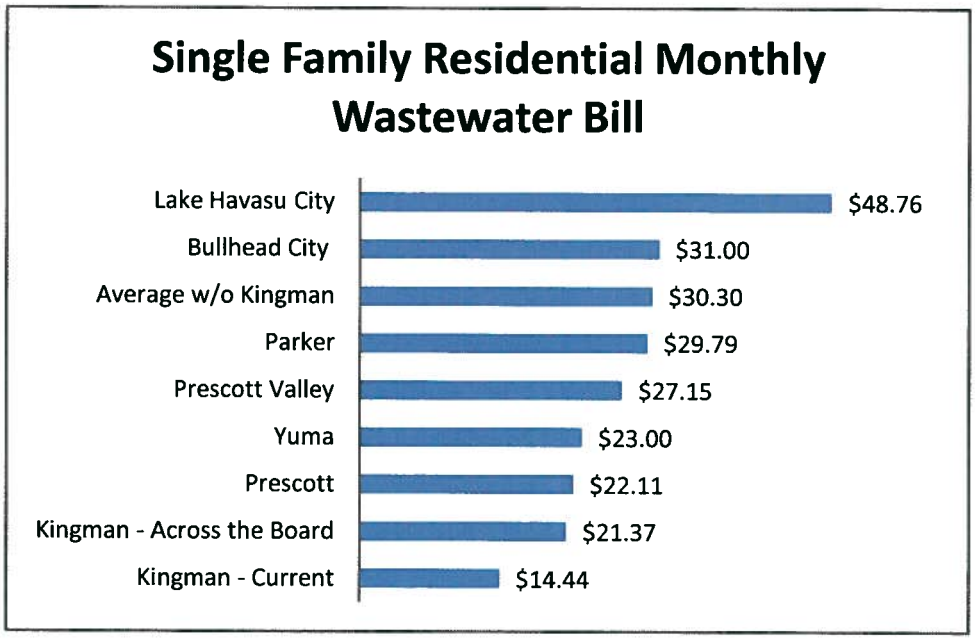
City of Kingman
Water and Wastewater Rates and Investment Fee Study

Appendix F: Wastewater Survey Comparison

REDOAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

5204-003 / DEN

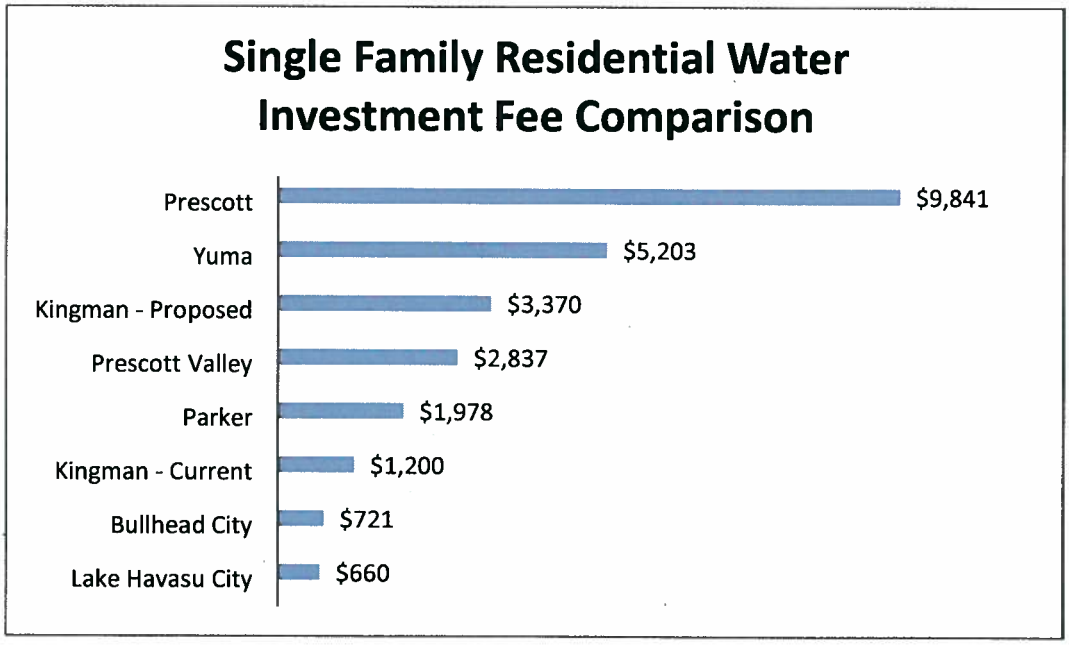

Single Family Residential Monthly Wastewater Bill
Lake Havasu City
$48.76
Bullhead City
$31.00
Average w/o Kingman
$30.30
Parker
$29.79
Prescott Valley
$27.15
Yuma
$23.00
Prescott
$22.11
Kingman - Across the Board
$21.37
Kingman - Current
$14.44

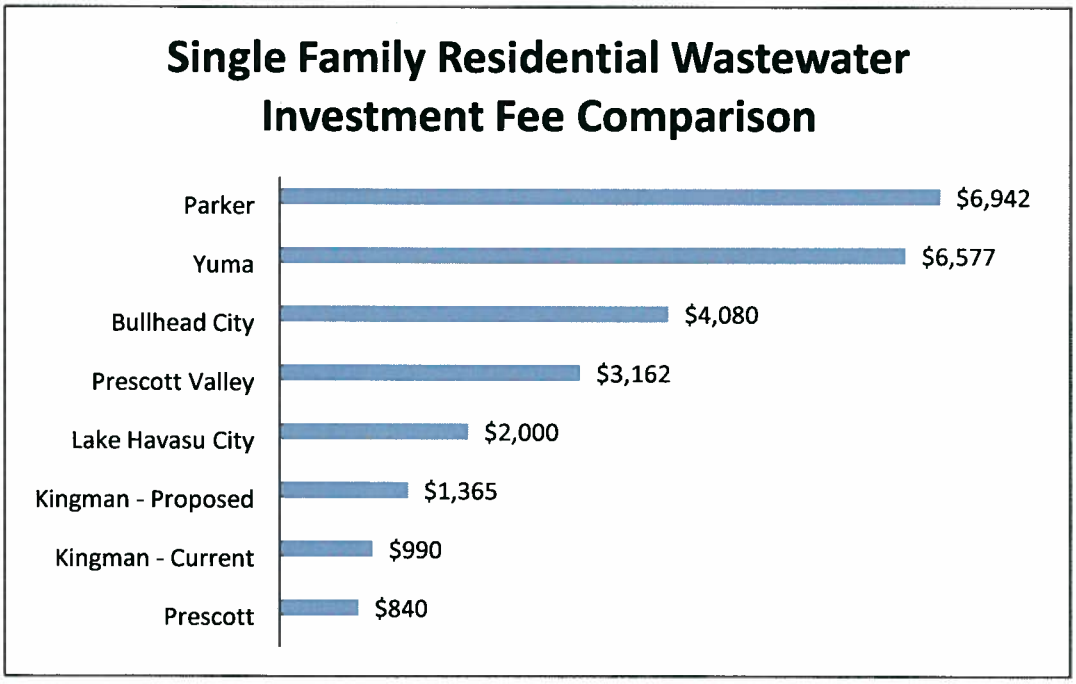
City of Kingman
Water and Wastewater Rates and Investment Fee Study

Appendix G: Investment Fee Survey Comparison

REDOAK CONSULTING
A DIVISION OF MALCOLM PIRNIE

5204-003 / DEN


Single Family Residential Water Investment Fee Comparison
Prescott
$9,841
Yuma
$5,203
Kingman - Proposed
$3,370
Prescott Valley
$2,837
Parker
$1,978
Kingman - Current
$1,200
Bullhead City
$721
Lake Havasu City
$660


Single Family Residential Wastewater Investment Fee Comparison
Parker
$6,942
Yuma
$6,577
Bullhead City
$4,080
Prescott Valley
$3,162
Lake Havasu City
$2,000
Kingman - Proposed
$1,365
Kingman - Current
$990
Prescott
$840