

WASTEWATER DIVISION of PUBLIC WORKS DEPARTMENT

DEPARTMENT DESCRIPTION

The Wastewater Division conveys domestic sewage to the Wastewater Reclamation Plant (WRP) through a wastewater collection system of over 800,000 feet of sewer pipes and 15 pump/lift stations. The wastewater receives tertiary treatment at the WRP and is disinfected with UV light. The reclaimed effluent is reintroduced into the Verde Valley watershed for beneficial reuse via an irrigation system on City property. The biosolids are transported to the Grey Wolf Landfill for final disposal as cover material.

MISSION STATEMENT

The mission of the Public Works Department Wastewater Division of the City of Sedona, with public health and safety being of the highest priority, is to provide professional and efficient maintenance and operation of the wastewater system, which includes facilities for collection, transport, treatment and disposal of wastewater related flows, in a manner which takes into account the requirements of the Arizona Department of Environmental Quality; and the direction of the City Manager, the City Council, the Public Works Director; and the desires of the citizens of Sedona, as well as the professional standards governing wastewater system operations.

Did You Know?

The wastewater reclamation process mimics nature by using the same biological process as happens naturally - we just control the process so it happens faster and more reliably. The wastewater is aerated to nurture an environment that supports the rapid growth of beneficial natural organisms that break down the components in the wastewater.

In 2007, the WRP treated 428.5 million gallons of wastewater, discharged nearly 340 million gallons of reclaimed water through spray irrigation, and generated 311 tons of biosolids.

2008-2009 OBJECTIVES

- ✓ Focus on sustainable management of the Wastewater system.
- ✓ Implement a plan for optimal management of reclaimed effluent.
- ✓ Evaluate the environmental and economic impacts of upgrading the plant biosolids for beneficial use.
- ✓ Upgrade and repair the berms of the effluent storage reservoirs
- ✓ Continue to improve the preventative maintenance program for both the Collection system and the WRP.
- ✓ Substantially complete the upgrade of the City's three major pump Stations

2007-2008 ACCOMPLISHMENTS

- ✓ The WRP was upgraded to increase

treatment capacity to 2.0 million gallons of wastewater a day.

The projected flow of wastewater from the City is 2 to 2.5 million gallons per day when Sedona is completely built out.

- ✓ A project to upgrade and expand the three major pump stations was implemented. This will allow emergency storage and pumping capacity in case of malfunctions at the pump stations.
- ✓ Over a quarter million feet of sewer lines were cleaned and video inspected.

SIGNIFICANT CHANGES

- ✓ Purchase of a Bobcat ATV allows safer, more efficient field repair work and freeing up personnel time to expedite the preventative maintenance program.
- ✓ Collection system maintenance has become more pro-active rather than reactive to spills or blockages.

City of Sedona
Budget Summary by Department

BUDGET BY PROGRAM	FY 2006-07 Actual	FY 2007-08 Budget	FY 2007-08 Estimate	FY 2008-09 Budget	Percent Over Last Year
Administration	\$ 506,261	\$ 596,756	\$ 566,387	\$ 292,085	
Total - Plant Administration	\$ 506,261	\$ 596,756	\$ 566,387	\$ 292,085	-51%

BUDGET BY CATEGORIES OF EXPENDITURES	FY 2006-07 Actual	FY 2007-08 Budget	FY 2007-08 Estimate	FY 2008-09 Budget	Percent Over Last Year
Wages/Salaries/Benefits	\$ 388,138	\$ 456,252	\$ 424,684	\$ 531,946	
Administrative Cost	\$ 97,324	\$ 125,629	\$ 126,828	\$ 191,046	
Assets	\$ 20,800	\$ 14,875	\$ 14,875	\$ 1,125	
Total - Plant Administration	\$ 506,261	\$ 596,756	\$ 566,387	\$ 724,117	21%

STAFFING BY PROGRAM	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09	Percent Over Last Year
Administration	5.65	6.30	6.85	7.60	
Total - Plant Administration	5.65	6.30	6.85	7.60	11%

CITY OF SEDONA						
EXPENDITURE ANALYSIS						
Wastewater Administrative	BUDGETED 2005-06	ACTUAL 2005-06	BUDGETED 2006-07	ACTUAL 2006-07	BUDGETED 2007-08	ADOPTED 2008-2009
Salary/Wages	307,164	296,318	290,326	288,811	333,418	388,597
Overtime	1,233	2,254	2,212	1,564	2,267	2,706
Temp/Part-Time Wages	-	9,858	-	-	-	-
Direct Payroll Costs	23,592	22,706	22,379	20,509	25,680	29,935
Retirement	23,492	20,231	24,028	21,659	29,313	35,022
STD/LTD Insurance	2,709	1,745	2,370	1,946	2,689	3,085
Health/Dental/Life Insurance	55,471	58,591	63,061	46,806	48,199	57,623
Workers Compensation	4,159	2,214	2,821	2,947	4,705	5,160
Flex Leave Reimbursement	4,619	1,566	4,207	-	5,601	4,658
Employee Benefits	3,600	3,000	1,800	3,896	4,380	5,160
SUB-TOTAL SALARIES & WAGES	\$ 426,039	\$ 418,482	\$ 413,204	\$ 388,138	\$ 456,252	\$ 531,946
Employee Exams	-	-	-	-	65	65
Uniforms	-	-	-	-	114	100
Training/Staff Development	3,100	3,257	3,900	2,587	5,780	6,080
Professional Services	7,000	10,226	10,800	14,366	12,800	12,800
Advertising	500	1,040	500	1,736	500	225
Subscriptions/Dues/Licenses	210	262	210	334	280	210
Telephone	7,494	6,698	7,494	7,718	8,010	9,130
Service Charges	-	-	-	-	-	10,000
Permit Fees	16,130	13,789	14,830	15,794	15,830	17,466
Printing /Office Supplies/Photographic	2,000	2,135	2,000	3,762	3,220	5,300
Postage	15,500	18,386	20,975	17,568	22,975	24,975
System Maintenance	-	-	-	-	-	500
Office Maintenance	500	985	500	386	2,800	2,800
Lease Purchase	-	-	-	-	7,000	3,600
Software Maintenance	3,200	3,395	4,000	7,469	4,000	4,150
Vehicle Expense	1,000	404	1,000	170	1,000	1,000
General Legal Expenses	-	(330)	-	3,885	-	-
Recording/TAT fees	1,000	286	500	177	350	250
Audit	15,000	19,475	15,750	15,683	16,500	16,500
Maintenance/Janitorial	-	-	2,400	3,125	12,680	62,670
Utilities	1,500	1,500	1,500	-	1,500	1,500
Water Conservation	1,000	869	1,500	400	1,000	1,000
Property & Casualty Insurance	5,750	5,750	6,613	-	6,800	6,800
Gasoline & Diesel	-	-	600	623	600	600
Office Furniture - Non Capital	-	-	-	-	1,650	3,150
Office Equipment - Non Capital	-	-	-	1,107	-	-
Computer Hardware - Non Capital	-	440	-	109	-	-
Computer Software-Non Capital	1,000	-	1,000	-	-	-
Radio & Phone - Non Capital	-	-	1,800	115	-	-
Safety Supplies	175	-	175	211	175	175
Depreciation	-	-	-	-	-	-
SUBTOTAL ADMINISTRATIVE EXPENDITURES	\$ 82,059	\$ 88,569	\$ 98,047	\$ 97,324	\$ 125,629	\$ 191,046
Office Furniture	-	-	-	-	-	-
Office Equipment	-	-	-	-	3,000	-
Computer Hardware	-	-	20,200	20,800	8,750	750
Computer Software	-	-	-	-	3,125	375
Vehicle	-	-	-	-	-	-
SUB-TOTAL ASSETS	\$ -	\$ -	\$ 20,200	\$ 20,800	\$ 14,875	\$ 1,125
GRAND TOTAL	\$ 508,098	\$ 507,051	\$ 531,451	\$ 506,261	\$ 596,756	\$ 724,117

City of Sedona
Budget Summary by Department

BUDGET BY PROGRAM	FY 2006-07 Actual	FY 2007-08 Budget	FY 2007-08 Estimate	FY 2008-09 Budget	Percent Over Last Year
Plant Operations	\$ 694,668	\$ 816,096	\$ 725,522	\$ 1,056,683	
Collection Systems	\$ 783,923	\$ 1,573,268	\$ 1,112,935	\$ 1,415,151	
Lab	\$ 99,143	\$ 133,357	\$ 103,230	\$ 130,241	
Total - Plant Operations	\$ 1,577,734	\$ 2,522,721	\$ 1,941,687	\$ 2,602,075	3%

BUDGET BY CATEGORIES OF EXPENDITURES	FY 2006-07 Actual	FY 2007-08 Budget	FY 2007-08 Estimate	FY 2008-09 Budget	Percent Over Last Year
Wages/Salaries/Benefits	\$ 551,532	\$ 652,170	\$ 591,204	\$ 672,838	
Administrative Cost	\$ 1,015,259	\$ 1,870,551	\$ 1,350,483	\$ 1,916,737	
Assets	\$ 10,943	\$ -	\$ -	\$ 12,500	
Total - Plant Operations	\$ 1,577,734	\$ 2,522,721	\$ 1,941,688	\$ 2,602,075	3%

STAFFING BY PROGRAM	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09	Percent Over Last Year
Plant Operations	5.00	4.30	4.30	4.30	
Collection Systems	3.00	4.00	4.00	4.00	
LAB	-	1.20	1.20	1.20	
Total - Plant Operations	8.00	9.50	9.50	9.50	

CITY OF SEDONA

EXPENDITURE ANALYSIS

Wastewater Plant	BUDGETED	ACTUAL	BUDGETED	ACTUAL	BUDGETED	ADOPTED
	2005-06	2005-06	2006-07	2006-07	2007-08	2008-2009
Salary/Wages	291,427	250,804	379,547	370,286	409,398	429,339
Overtime	30,166	11,771	39,619	19,965	44,286	46,443
Temp/Part-Time Wages	-	-	-	-	-	-
Direct Payroll Costs	24,602	19,163	32,066	27,190	34,707	36,397
Retirement	24,923	17,833	36,048	31,417	41,285	42,582
STD/LTD Insurance	2,427	1,793	3,654	3,128	4,048	4,380
Health/Dental/Life Insurance	53,358	70,738	102,368	84,692	92,122	86,979
Workers Compensation	12,572	7,085	16,693	14,853	20,390	21,383
Flex Leave Reimbursement	3,807	1,732	5,500	-	5,934	5,333
Employee Benefits	-	-	-	-	-	-
SUB-TOTAL SALARIES & WAGES	\$ 443,282	\$ 380,919	\$ 615,495	\$ 551,532	\$ 652,170	\$ 672,838

Employee Exams	521	203	731	-	670	805
Uniform Allowance	2,300	2,713	4,163	3,595	4,563	6,930
Training/Staff Development	3,850	3,760	11,540	5,403	15,790	14,500
Professional Services	92,487	44,863	253,330	59,523	12,230	17,230
Tech Support	13,000	-	13,000	1,050	13,000	23,000
Advertising	-	-	-	-	800	400
Subscriptions/Dues/Licenses	674	450	1,394	460	2,504	2,465
Telephone	5,820	5,942	6,348	7,106	7,200	14,190
Permit Fees	-	-	3,000	1,595	9,400	2,200
Printing/Office Supplies/Photographic	700	3,402	700	2,304	1,000	1,460
Postage & Delivery	1,500	2,420	1,850	1,381	1,850	1,400
Office Maintenance	-	-	-	34	-	-
Equipment & Other Rentals	500	19	500	2,672	8,000	8,000
Equipment Repair	171,000	107,234	171,000	98,287	161,000	250,000
Software Maintenance	3,500	6,584	3,500	4,073	3,500	8,000
Vehicle Expenses	12,000	10,589	12,000	21,821	12,000	16,000
Spendable Contingency	-	-	-	-	-	24,000
Maintenance & Improvements	600	2,354	4,948	11,813	11,280	11,800
Janitorial Supplies	-	229	-	-	-	-
Utilities	261,500	278,020	289,000	296,378	314,500	401,300
Gasoline & Diesel	8,500	12,831	11,000	16,934	35,100	24,100
Solid Waste	66,700	109,508	113,368	100,942	121,168	145,192
Septic Maintenance	11,750	13,952	10,000	20,355	15,000	18,000
Replacement & Extension	-	-	-	-	-	-
Sewer System Maintenance/Repair	200,000	32,558	465,000	123,332	895,968	676,300
Plant Maintenance/Repairs	-	-	85,000	101,670	74,872	102,040
Offic Furniture - Non Capital	-	-	-	-	300	-
Computer Hardware - Non Capital	8,200	-	-	-	-	-
Computer Software - Non Capital	-	-	-	-	-	4,800
Machinery & Equipment - Non Capital	3,000	3,027	3,230	3,297	7,200	6,000
Radio & Phone - Non Capital	1,200	486	6,600	928	-	-
Safety Supplies	8,050	7,108	20,013	42,128	15,975	12,775
Oil & Lubricants	5,000	807	5,000	2,127	5,750	5,750
Wastewater Supplies	126,831	122,952	102,800	86,051	119,931	118,100
SUBTOTAL TREATMENT PLANT EXPENDITURES	\$ 1,009,183	\$ 772,011	\$ 1,599,015	\$ 1,015,259	\$ 1,870,551	\$ 1,916,737

Office Furniture	-	-	-	-	-	-
Computer Hardware	-	9,066	-	3,433	-	-
Machinery & Equipment	-	-	-	-	-	12,500
Radio	-	-	-	-	-	-
Telephone Equipment	-	-	-	-	-	-
Motor Vehicle	-	-	-	7,510	-	-
SUB-TOTAL ASSETS	\$ -	\$ 9,066	\$ -	\$ 10,943	\$ -	\$ 12,500
GRAND TOTAL	\$ 1,452,465	\$ 1,161,995	\$ 2,214,510	\$ 1,577,734	\$ 2,522,721	\$ 2,602,075

CITY OF SEDONA

EXPENDITURE ANALYSIS

Wastewater Debt Service

	BUDGETED	ACTUAL	BUDGETED	ACTUAL	BUDGETED	ADOPTED
	2005-06	2005-06	2006-07	2006-07	2007-08	2008-2009

SUB-TOTAL SALARIES & WAGES						

Series 2007 (NEW)	-	-	-	-	142,235	1,529,756
Series 1997 {State Rev Fund/WIFA}	121,161	121,161	121,161	121,161	121,161	121,161
C.O.P. Series 1994/Refinance 2002	114,758	114,758	288,678	288,678	289,678	290,278
Series 1998 (Borrowing)	638,923	638,923	641,223	630,435	652,990	438,663
Bond Debt Service 1992/Refinance 2004	2,392,250	2,371,188	2,392,250	2,391,267	2,383,000	2,389,750
Refinance Second Series 2004	664,850	628,328	860,490	860,336	859,086	860,781
Refinance Series 2005 (1998 Series)	530,088	529,311	530,088	529,959	530,088	735,088
Bond & C.O.P. Administrative Fees	12,000	7,565	11,000	8,533	12,000	12,000
Debt Issuance Cost	-	(10,900)	-	20,143	-	-
Arbitrage	100,000	1,550	5,000	1,900	5,000	5,000
SUBTOTAL DEBT SERVICE EXPENDITURES	\$ 4,574,030	\$ 4,401,884	\$ 4,849,890	\$ 4,852,413	\$ 4,995,238	\$ 6,382,477

SUB-TOTAL ASSETS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GRAND TOTAL	\$ 4,574,030	\$ 4,401,884	\$ 4,849,890	\$ 4,852,413	\$ 4,995,238	\$ 6,382,477

City of Sedona
Budget Summary by Department

BUDGET BY PROGRAM	FY 2006-07 Actual	FY 2007-08 Budget	FY 2007-08 Estimate	FY 2008-09 Budget	Percent Over Last Year
Construction	\$ 7,247,305	\$ 14,132,253	\$ 8,505,639	\$ 15,165,426	
Total - WW Construction	\$ 7,247,305	\$ 14,132,253	\$ 8,505,639	\$ 15,165,426	7%

BUDGET BY CATEGORIES OF EXPENDITURES	FY 2006-07 Actual	FY 2007-08 Budget	FY 2007-08 Estimate	FY 2008-09 Budget	Percent Over Last Year
Wages/Salaries/Benefits	\$ 471,747	\$ 462,130	\$ 437,460	\$ 437,309	
Administrative Cost	\$ 6,308,411	\$ 13,515,923	\$ 7,956,957	\$ 14,509,617	
Assets	\$ 467,146	\$ 154,200	\$ 111,223	\$ 218,500	
Total - WW Construction	\$ 7,247,305	\$ 14,132,253	\$ 8,505,639	\$ 15,165,426	7%

STAFFING BY PROGRAM	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09	Percent Over Last Year
Construction	7.10	6.10	6.10	5.60	
Total - WW Construction	7.1	6.1	6.1	5.6	-8%

CITY OF SEDONA

EXPENDITURE ANALYSIS

	BUDGETED	ACTUAL	BUDGETED	ACTUAL	BUDGETED	ADOPTED
Wastewater Construction	2005-06	2005-06	2006-07	2006-07	2007-08	2008-2009
Salary/Wages	321,759	300,396	305,575	340,016	325,478	301,961
Overtime	10,892	1,524	8,301	1,228	8,831	14,312
Direct Payroll Costs	25,448	22,311	24,012	23,732	25,575	24,195
Retirement	25,780	22,687	28,363	28,855	31,640	29,500
STD/LTD Insurance	2,672	1,542	2,803	2,850	3,004	2,797
Health/Dental/Life Insurance	62,609	59,936	66,439	66,596	52,728	51,543
Workers Compensation Insurance	10,636	978	8,102	8,470	10,157	9,250
Flex Leave Reimbursement	2,398	3,939	4,428	-	4,717	3,751
Employee Benefits	-	-	-	-	-	-
SUB-TOTAL SALARIES & WAGES	\$ 462,194	\$ 413,312	\$ 448,023	\$ 471,747	\$ 462,130	\$ 437,309

Employee Exams	-	-	-	-	-	-
Uniform Allowance	1,000	463	1,000	425	1,000	1,000
Training/Staff Development	2,800	1,878	2,800	257	5,535	5,535
Professional Services	13,000	11,994	13,000	-	13,000	45,000
Advertising	-	-	-	-	-	-
Subscriptions/Dues/Licenses	200	-	325	-	445	660
Telephone	1,300	1,249	1,900	1,498	1,618	1,300
Office/Printing Supplies	800	1,280	1,300	1,484	1,300	1,500
Postage	75	-	75	227	75	75
Automobile Expense	6,000	6,509	8,000	5,567	4,500	2,500
Legal Fees	30,000	168	30,000	8,610	5,000	5,000
Recording Fees	100	129	150	98	150	150
Contingency	-	-	2,401,000	-	-	50,000
Rent	6,000	-	6,000	-	6,000	6,000
Utilities	-	-	-	-	-	-
Gasoline	-	-	-	2,159	3,500	6,000
Office Furniture - Non Capital	1,250	1,182	-	-	1,500	1,500
Office Equipment - Non Capital	-	-	-	-	-	-
Computer Software - Non Capital	-	-	-	330	-	-
Machinery & Equipment - Non Capital	-	-	-	-	-	-
Radio & Phone Equip - Non Capital	-	-	840	230	-	-
Safety Equipment	1,100	1,751	1,200	1,168	2,700	2,700
Special Supplies	-	-	-	-	600	600
Laterals	-	-	40,000	-	40,000	15,000
Plant Upgrade	1,059,500	215,246	1,290,000	1,191,267	235,000	745,750
Long Term Effluent	250,000	73,813	302,000	190,687	-	-
Pump Lift Station Improvements	5,104,500	78,931	5,889,500	202,239	6,250,000	7,298,347
Construction Mgmt	-	-	-	-	-	-
Phase 2 Design/Construction	-	-	-	-	718,000	31,000
Treatment Plant O & M	-	-	-	-	355,000	655,000
Collection System	10,271,000	3,440,452	6,842,913	4,702,166	5,871,000	5,560,000
Transfers	-	-	2,500,000	-	-	75,000
SUBTOTAL CONSTRUCTION	\$ 16,748,625	\$ 3,835,045	\$ 19,332,003	\$ 6,308,411	\$ 13,515,923	\$ 14,509,617

Office Furniture	-	-	-	-	-	-
Office Equipment	7,000	7,000	-	-	-	-
Computer Hardware	-	-	4,100	-	4,600	-
Computer Software	-	-	-	-	-	-
Data	-	-	95,750	95,750	-	-
Machinery & Equipment	-	68,767	25,000	31,098	50,600	130,500
Radio/Telephone Equipment	-	-	-	-	-	-
Vehicles	133,000	18,926	384,000	338,152	99,000	88,000
Land Acquisition	90,000	5,413	50,000	2,146	-	-
	\$ 230,000	\$ 100,107	\$ 558,850	\$ 467,146	\$ 154,200	\$ 218,500
GRAND TOTAL	\$ 17,440,819	\$ 4,348,463	\$ 20,338,876	\$ 7,247,305	\$ 14,132,253	\$ 15,165,426



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP - Replace Soft Starters with Variable Flow Drives				
22 Capital Improvements Fund: 59-5252-00-725, MACHINERY & EQUIPMENT				
Department: Wastewater Capital				
Community Plan Element: Element 12: Community Facilities, Services and Recreation Goal 3.0: Provide for effective, safe, efficient, and economical wastewater disposal and water supply and distribution systems. 3.1: Continue to construct a wastewater treatment system and maximize the potential for reuse of effluent and aquifer recharge.				
Capital Improvement Plan Program: Wastewater				
Project Description: Replace soft starters with variable flow drives.				
Requirement/Need for Project: Reduces wear on pumps and reduces energy costs				
Consequence of Not Performing Project: More frequent pump maintenance and repair, no reduction in operating costs.				
Operation Impacts for Maintenance, Staffing, Etc.: Reduced maintenance				
Related Projects: <i>no answer</i>				
Possible Funding Source: <i>no answer</i>				
Proposed Expenditures:				
	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$0.00	\$0.00	\$0.00	\$0.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$26,000.00	\$27,000.00	\$27,000.00	\$28,000.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$26,000.00</u>	<u>\$27,000.00</u>	<u>\$27,000.00</u>	<u>\$28,000.00</u>
<u>Expenditures Total: \$108,000.00</u>				



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP - Brush Cleaning System for Clarifiers
22 Capital Improvements Fund: 59-5252-00-725, MACHINERY & EQUIPMENT
Department: Wastewater Capital
Community Plan Element: 12.0 Community Facilities
Capital Improvement Plan Program: Wastewater
Project Description: Install new brush cleaning systems on the secondary clarifiers to continuously clean the clarifiers and prevent algae buildup.
Requirement/Need for Project: <p>The clarifiers experience on-going problems with algae growth due to the exposure to sunshine. Excessive algae will break off and plug the down-stream sand filters. Currently, 8 hours a week are spent cleaning algae from the clarifiers.</p> <p>Historically, two remedial methods were considered and budgeted but not implemented. Covers were proposed for the clarifiers to block sunlight. This option was rejected after consideration of the safety and maintenance issue this could create. Accessibility would be hindered, and the clarifiers could become an accumulation area for toxic or hazardous gases. Last year, an alternate proposal was to epoxy-line the clarifiers. Sales representative inspected the clarifiers and stated that the clarifiers were in good condition, and he did not recommend that lining was needed.</p> <p>Research of equipment and recommendations has resulted in selection of a continuous brush cleaning system that will significantly reduce manpower requirements and minimize the likelihood of sand filter plugging due to algae.</p>
Consequence of Not Performing Project: Continued manpower requirements to routinely clean the clarifiers manually. Potential of algae sloughing causing plugging of sand filters.
Operation Impacts for Maintenance, Staffing, Etc.: Manpower savings of 8 hours per week.
Related Projects: <i>no answer</i>

Possible Funding Source:

no answer

Proposed Expenditures:

	FY 2008-2009
Construction	\$0.00
Construction Mgt.	\$0.00
Contingency	\$0.00
Design/Engineering	\$0.00
Environmental	\$0.00
Equipment	\$35,000.00
Land Acquisition	\$0.00
Maintenance	\$0.00
<u>FY Totals:</u>	<u>\$35,000.00</u>

Expenditures Total: \$35,000.00



City of Sedona
 Capital Worksheet
 Fiscal Year 2008-2009

<p>Project Title: WWTP - Treatment Plant Pump Replacement and Upgrade</p>
<p>22 Capital Improvements Fund: 59-5252-00-725, MACHINERY & EQUIPMENT</p>
<p>Department: Wastewater Capital</p>
<p>Community Plan Element: 12.) Community Facilities Element Goal 3.0: Provide for effective, safe, efficient, and economical wastewater disposal and water supply and distribution systems. Goal 3.1: Continue to construct a wastewater treatment system and maximize the potential for reuse of effluent and aquifer recharge. Goal 11: Provide sufficient resources to evaluate, operate and satisfactorily maintain City streets, storm drainage facilities, wastewater facilities, buildings, parks and other infrastructure that are intended for continued use.</p>
<p>Capital Improvement Plan Program: Wastewater</p>
<p>Project Description: Replace existing pumps due to obsolescence and/or wear and lack of maintenance. -Septage pumps, with controls, 2 Flygt mixer pumps, 7.5 hp, \$5000. ea, controls \$4000 ea.(2007-08 and 2008-09) -RAS/WAS/Grit pumps, 5 pumps, 1/year, \$5,000 each, with valves @ \$5000 each. -Sludge pumps, 4 pumps, \$5000 each (2007-8, 2008-9, 2009-10, 2010-11)</p>
<p>Requirement/Need for Project: Planned upgrade of pumping capacity is required to provide dependable wastewater treatment, particularly as the influent increases from 1.2 MGD to 2.0 MGD..</p>
<p>Consequence of Not Performing Project: Potential failure of pumps that could result in non-compliance with the Aquifer Protection Permit (APP) and/or negative environmental impacts.</p>
<p>Operation Impacts for Maintenance, Staffing, Etc.: Reduced maintenance and repair costs by replacing aging equipment.</p>
<p>Related Projects: <i>no answer</i></p>
<p>Possible Funding Source: <i>no answer</i></p>

Proposed Expenditures:

	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$0.00	\$0.00	\$0.00	\$0.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$500.00	\$1,000.00	\$1,200.00	\$500.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$24,000.00	\$15,000.00	\$15,000.00	\$10,000.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$24,500.00</u>	<u>\$16,000.00</u>	<u>\$16,200.00</u>	<u>\$10,500.00</u>

Expenditures Total: \$67,200.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP Wastewater Tractor and Backhoe
22 Capital Improvements Fund: 59-5252-00-725, MACHINERY & EQUIPMENT
Department: Wastewater Capital
Community Plan Element: 12 Community Facilities
Capital Improvement Plan Program: <i>no answer</i>
Project Description: Purchase of a new tractor with front end loader and backhoe attachment.
Requirement/Need for Project: Wastewater's current tractor is 12 years old, and nearly \$6,000 was expended on repairs in a four month period. Two repairmen have concluded that a permanent repair is not feasible, and it is currently being kept in service by adding oil to the hydraulic system on a daily basis. A tractor with a front end loader is essential to wastewater operations. It is used to empty the sludge drying beds and to move the roll-offs of biosolids. The existing tractor does not have a backhoe attachment, and wastewater has to rent a backhoe in order to perform maintenance in the wetlands and marshes.
Consequence of Not Performing Project: If a new tractor is not purchased, high maintenance costs are expected to continue. Complete failure of the tractor will result in the inability to move biosolids with resultant backup of solids in the plant with potential non-compliance with the operating permit. A tractor would have to be rented to maintain operation of the plant.
Operation Impacts for Maintenance, Staffing, Etc.: Purchase of a new tractor will increase efficiency because less time will be spent on maintaining the tractor. It will also result in a modest savings in oil. Efficiency will also improve because a backhoe will be available whenever needed rather than having to rent one and wait for delivery and schedule for it's pickup.
Related Projects: <i>no answer</i>
Possible Funding Source: <i>no answer</i>

Proposed Expenditures:

	FY 2008-2009
Construction	\$0.00
Construction Mgt.	\$0.00
Contingency	\$0.00
Design/Engineering	\$0.00
Environmental	\$0.00
Equipment	\$45,000.00
Land Acquisition	\$0.00
Maintenance	\$0.00
<u>FY Totals:</u>	<u>\$45,000.00</u>

Expenditures Total: \$45,000.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP - Vehicle Replacement
22 Capital Improvements Fund: 59-5252-00-740, MOTOR VEHICLES
Department: Wastewater Capital
Community Plan Element: Element 12: Community Facilities, Services and Recreation Goal 3.0: Provide for effective, safe, efficient, and economical wastewater disposal and water supply and distribution systems. 3.1: Continue to construct a wastewater treatment system and maximize the potential for reuse of effluent and aquifer recharge.
Capital Improvement Plan Program: Wastewater
Project Description: Replace unreliable vehicles with excess mileage (mileages as of January 2007) 2008/2009 -Replace Plant pickup truck, 1996 Chevy pickup, 150,000 miles -Replace Collections vehicle, 2001 Dodge Ram, 80,000 miles 2009/2010 -Replace Collections pickup truck, 1997 Dodge Ram, 85,000 miles
Requirement/Need for Project: In 2006/2007, all but one of the wastewater vehicles had in excess of 80,000 miles and several were more than 10 years old. Reliable vehicles are required to maintain the collections and plant facilities. The vehicles are being upgraded over a three-year period, beginning in 2007/2008.
Consequence of Not Performing Project: Personnel are not able to perform duties due to lack of reliable transportation.
Operation Impacts for Maintenance, Staffing, Etc.: Improved efficiency, decreased vehicle maintenance costs.
Related Projects: <i>no answer</i>

Possible Funding Source:

no answer

Proposed Expenditures:

	FY 2008-2009	FY 2009-2010
Construction	\$0.00	\$0.00
Construction Mgt.	\$0.00	\$0.00
Contingency	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00
Environmental	\$0.00	\$0.00
Equipment	\$63,000.00	\$32,500.00
Land Acquisition	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$63,000.00</u>	<u>\$32,500.00</u>

Expenditures Total: \$95,500.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: Replace Inspector I Vehicle				
22 Capital Improvements Fund: 59-5252-00-740, MOTOR VEHICLES				
Department: Wastewater Capital				
Community Plan Element: Community Facilities 3.1				
Capital Improvement Plan Program: Public Works				
Project Description: Replace existing 1997 vehicle with new vehicle complete with light-bar, toolbox, and box cover.				
Requirement/Need for Project: Inspectors require safe, reliable and economic transportation in order to continue inspection of various projects contracted by the City, to visit and inspect residential and commercial projects by others to ensure compliance with City Codes, to accomplish Blue staking as required by Law, to respond to residents' requirements and inquiries, and respond to emergencies.				
Consequence of Not Performing Project: This 11-year old vehicle is becoming expensive and difficult to maintain and operate, the reliability is becoming problematical, and there is no spare vehicle available in the inspector's vehicle pool. Inspector will lose staff time obtaining a vehicle to use when this vehicle is not operational. In order for inspectors to perform their duties, each must have access to a vehicle almost full-time. This vehicle will have reached the end of its economic life and will be more difficult and expensive to maintain and operate.				
Operation Impacts for Maintenance, Staffing, Etc.: Decrease in maintenance and operating costs, and improved use of staff.				
Related Projects: <i>no answer</i>				
Possible Funding Source: \$.005 sales tax				
Proposed Expenditures:				
	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$0.00	\$0.00	\$0.00	\$0.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$25,000.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$25,000.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
<u>Expenditures Total: \$25,000.00</u>				



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP - Surveillance Equipment
22 Capital Improvements Fund: 59-5252-00-946, PLANT UPGRADE - WW02O
Department: Wastewater Capital
Community Plan Element: 12: Community Facilities
Capital Improvement Plan Program: Wastewater
Project Description: Install surveillance equipment at Wastewater Plant gate and in irrigation areas.
Requirement/Need for Project: The Homeland Security Act covers wastewater treatment plants. It is required to take measures to protect the plant from trespassing and damage. There is an on-going problem with hunters who cut fencing and trespass to hunt on plant property. This is hazardous to plant personnel who are out working in the fields, and it necessitates on-going expensive repairs. This also creates a public safety problem because the fence-cutting can allow cattle that are grazing on forest service land to get out and onto Highway 89A. Although the ranch is diligent to find and repair cut fencing, there still exists the potential that cattle could get out through City property if fences are cut.
Consequence of Not Performing Project: Continuing risk to plant personnel and to public safety on 89A
Operation Impacts for Maintenance, Staffing, Etc.: After installation, this will become part of the routine rounds and reads procedure. Impact will be minimal.
Related Projects: WWTP - Gate - Automatic (card readers)
Possible Funding Source: <i>no answer</i>

Proposed Expenditures:

	FY 2008-2009
Construction	\$0.00
Construction Mgt.	\$0.00
Contingency	\$0.00
Design/Engineering	\$5,000.00
Environmental	\$0.00
Equipment	\$25,000.00
Land Acquisition	\$0.00
Maintenance	\$0.00
<u>FY Totals:</u>	<u>\$30,000.00</u>

Expenditures Total: \$30,000.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

<p>Project Title: WWTP Supervisory Control and Data Acquisition System Upgrade</p>
<p>22 Capital Improvements Fund: 59-5252-00-946, PLANT UPGRADE - WW020</p>
<p>Department: Wastewater Capital</p>
<p>Community Plan Element: Community Facilities Goal 11</p>
<p>Capital Improvement Plan Program: Wastewater</p>
<p>Project Description: This project is aimed at evaluating and upgrading the existing Supervisory Control and Data Acquisition System (SCADA) at the Wastewater Plant. The goal is to modernize the computer software and associated control devices, as well as extending the system so that the operation of the three major pump stations can be controlled from the plant. The control of these stations from the plant may allow flow coming to the plant to be more consistent. This will help in the management of the treatment process. \$66,000 was advanced to this project from the berm improvement project in 2007/2008 to perform essential emergency upgrades. However, it is recommended that the current \$10,000 be retained in the budget to allow for ongoing upgrade needs.</p>
<p>Requirement/Need for Project: The ability to gather data and automate the adjustment of process input is essential to the efficient operation of a modern sewer plant. The ability to control flows, chemical inputs, and other aspects of the process can reduce electrical costs, save chemical costs, assure efficient staffing, and help the plant maintain compliance with its ADEQ permit. The ability to conduct forensic analysis of plant events can also be enhanced by having the ability to review data gathered by the monitoring systems. The current system was not operating consistently and had not been consistently upgraded over the years. An evaluation and emergency upgrades were implemented in 2007/2008. However, some aging components still exist in the system.</p>
<p>Consequence of Not Performing Project: The existing SCADA system has been experiencing significant problems, due to past neglect. This has required that wastewater plant staff spend more overtime operating the plant. If this upgrade is not accomplished this trend can be expected to continue and may result in failures of the plant processes.</p>
<p>Operation Impacts for Maintenance, Staffing, Etc.: Reduction in staff overtime The system will provide data needed to make process improvements to reduce costs This will help staff in preparation of reports to ADEQ</p> <p>Note: There will be ongoing software maintenance costs estimated at \$10,000 annually</p>

Related Projects:*no answer***Possible Funding Source:**

Wastewater Fund

Proposed Expenditures:

	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$0.00	\$0.00	\$0.00	\$0.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
<u>FY Totals:</u>	<u>\$10,000.00</u>	<u>\$10,000.00</u>	<u>\$10,000.00</u>	<u>\$10,000.00</u>

Expenditures Total: \$40,000.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP - Solids Handling Upgrades
22 Capital Improvements Fund: 59-5252-00-946, PLANT UPGRADE - WW02O
Department: Wastewater Capital
Community Plan Element: 12.0 Community Facilities Goal 3.0: Provide for effective, safe, efficient, and economical wastewater disposal and water supply and distribution systems. 3.1: Continue to construct a wastewater treatment system and maximize the potential for reuse of effluent and aquifer recharge.
Capital Improvement Plan Program: Wastewater
Project Description: Improve and increase solids handling facilities by the following: Enclose centrifuge building New bar screens (fly-proof Auger Monsters) and grit conveyor Rebuilding existing sludge drying beds Building additional sludge drying beds Building a new sludge digester
Requirement/Need for Project: Increased and improved solids handling capacity will provide cost savings and environmentally friendly options for solids management. Solids handling capability is a limitation to the plant capacity. Increased and improved capacity will allow continued operation during wet weather when the sludge drying beds are not effective, provide storage space during centrifuge down-time or backlog, and provide for economic and environmentally-friendly options for solids handling. Reduced solids volume will reduce disposal costs. An additional digester will allow us to work towards the optional usages of sludge to replace expensive and environmentally undesirable land filling. Freezing weather has resulted in equipment damage in the centrifuge building, in spite of weather proofing precautions.
Consequence of Not Performing Project: Rising expenses for solids disposal. Potential non-compliance and/or environmental impacts due to restricted solids handling during wet weather or equipment failure. Inability to develop beneficial usage of biosolids (sludge).

Damage to centrifuge equipment due to freezing.				
Operation Impacts for Maintenance, Staffing, Etc.:				
No increase in maintenance or staffing. Provides operational options during failures or bad weather.				
Related Projects:				
<i>no answer</i>				
Possible Funding Source:				
<i>no answer</i>				
Proposed Expenditures:				
	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$350,000.00	\$400,000.00	\$400,000.00	\$0.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$150,000.00	\$80,000.00	\$80,000.00	\$0.00
Design/Engineering	\$200,000.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$700,000.00</u>	<u>\$480,000.00</u>	<u>\$480,000.00</u>	<u>\$0.00</u>
<u>Expenditures Total: \$1,660,000.00</u>				



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

<p>Project Title: WWTP - El Camino Emergency Response Improvements</p>
<p>22 Capital Improvements Fund: 59-5252-00-952, PUMP LIFT STATION IMPROVEMENTS</p>
<p>Department: Wastewater Capital</p>
<p>Community Plan Element: 12</p>
<p>Capital Improvement Plan Program: <i>no answer</i></p>
<p>Project Description: Improvements at El Camino Pump Station 1. Construct an enclosed building to house the vacuum truck, the emergency response trailer and the anticipated new crane truck that will be part of the 3 Major Pump Station Upgrades. 2. Install new fencing around the pump station and defines City property. 3. Relocate small portion of hiking trail that cuts across City property</p>
<p>Requirement/Need for Project: Protection of equipment investment from rodents. Rodents invasively damage vehicles park out of doors, particularly when equipment is not used on a daily basis. This will also enable staff to provide emergency response without significant delays in obtaining equipment from the wastewater plant. Security at the El Camino Station will be Improved.</p>
<p>Consequence of Not Performing Project: Delayed response to emergencies to obtain equipment from the treatment plant. Trespass on City property and potential liability. Destruction of several \$100,000s of equipment investment. Potential inoperability of equipment in an emergency.</p>
<p>Operation Impacts for Maintenance, Staffing, Etc.: Reduce time to obtain emergency equipment for emergency response. Quicker response time in case of a release. Improved security. The building will have ongoing maintenance and operation costs, which are unknown since the building design is unknown. A 0.25% original construction cost per year maintenance cost has been assumed in year 3.</p>
<p>Related Projects: <i>no answer</i></p>

Possible Funding Source:

no answer

Proposed Expenditures:

	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$0.00	\$1,500,000.00	\$0.00	\$0.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$25,000.00	\$0.00	\$0.00
Design/Engineering	\$145,000.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$3,750.00	\$3,750.00
<u>FY Totals:</u>	<u>\$145,000.00</u>	<u>\$1,525,000.00</u>	<u>\$3,750.00</u>	<u>\$3,750.00</u>

Expenditures Total: \$1,677,500.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: Major Pump Station Improvements
22 Capital Improvements Fund: 59-5252-00-952, PUMP LIFT STATION IMPROVEMENTS
Department: Wastewater Capital
Community Plan Element: Community Facilities 3.1
Capital Improvement Plan Program: Wastewater
Project Description: Design and construct improvements to the three major sewer pump stations (Brewer, Carroll Canyon and El Camino). At each station, these improvements include construction of a bypass with wet well, replacing the existing pumps and drive controls, and various operational and safety improvements. This will be accomplished through a Construction Manager @ Risk (CMAR) process. This process started in FY 2005/2006 with a construction design/management oversight contract with Stanley Consultants. In FY 2006/2007, the process continued when it was identified that the pump and pump control upgrades were an urgent requirement. In FY 2006/2007, the City entered into an agreement with a CMAR for design phase services. Construction began on 07/24/2007 and is continuing. As of 01/2008, we expect to have at least five Guaranteed Maximum Price (GMP) contracts under the CMAR process. The CMAR is executing the first two GMP contracts, and we are negotiating the final costs for the third GMP and have started working on the fourth. We expect construction to be completed by the spring of 2009.
Requirement/Need for Project: The pump stations have not been improved since their construction. The pumps and controls are failing at an increasing rate, with parts becoming difficult, if not impossible, to obtain. These stations have been operating continuously since having been placed into service in 1992. The lack of bypass capability, coupled with near-capacity flows into the stations, has resulted in a situation where the wastewater staff does not have the opportunity to take the wet wells and other essential equipment out of service to perform inspections, maintenance and repairs. As the stations age, the probability of catastrophic failure of components of these stations also increases. There is a high probability that such failures will result in non-compliance with State and Federal standards, and subject the City to fines and penalties.
Consequence of Not Performing Project: Inadequately and poorly maintained pump station facilities and equipment may fail resulting in spills and non-compliance with State and Federal standards, subjecting the City to fines and penalties, and additional costs to provide an alternate means for collecting and removing the wastewater.

Operation Impacts for Maintenance, Staffing, Etc.:

Under the current situation, the amount of time required to maintain and repair the existing obsolete equipment and facilities is steadily increasing. These pump stations are perceived as ticking time bombs that multiply the stress levels experienced by the Wastewater staff and diminish their job morale.

Related Projects:

no answer

Possible Funding Source:

\$.005 sales tax

Proposed Expenditures:

	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$1,640,000.00	\$0.00	\$0.00	\$0.00
Construction Mgt.	\$100,000.00	\$0.00	\$0.00	\$0.00
Contingency	\$500,000.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$150,000.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$2,390,000.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>

Expenditures Total: \$2,390,000.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP - Gate - Automatic (card readers)				
22 Capital Improvements Fund: 59-5252-00-955, TREATMENT PLANT O&M				
Department: Wastewater Capital				
Community Plan Element: 12.0 Community Facilities				
Capital Improvement Plan Program: Wastewater				
Project Description: Install automatic gate with card reader or alternate sensor to allow authorized entrance to the plant and expedite emergency entrance and exit.				
Requirement/Need for Project: Improved security. Safer employee access at night and in inclement weather. Expedited emergency entrance and exit.				
Consequence of Not Performing Project: Off-hours entrance, particularly after dark is hindered by the padlocked gate. In emergencies, this may take valuable extra time. Security remains more vulnerable.				
Operation Impacts for Maintenance, Staffing, Etc.: Minimal maintenance of gate. Improved access for staff. Improved security.				
Related Projects: <i>no answer</i>				
Possible Funding Source: <i>no answer</i>				
Proposed Expenditures:				
	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$0.00	\$0.00	\$0.00	\$0.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$20,000.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$500.00	\$1,000.00	\$1,000.00
<u>FY Totals:</u>	<u>\$20,000.00</u>	<u>\$500.00</u>	<u>\$1,000.00</u>	<u>\$1,000.00</u>
<u>Expenditures Total: \$22,500.00</u>				



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP - Berm Maintenance
22 Capital Improvements Fund: 59-5252-00-955, TREATMENT PLANT O&M
Department: Wastewater Capital
Community Plan Element: 12 Community Facilities
Capital Improvement Plan Program: <i>no answer</i>
Project Description: <p>In 2007/2008, a project was approved to investigate potential cracks in the surface impoundment berms and develop a plan to remove trees, roots and other excessive growth on reservoir berms. The consultant URS Corporation will complete the investigation, including geological and soil testing, develop the approach and scope of work for the repairs and submit the subsequent report to The Arizona Department of Water Resources (ADWR) for approval. Construction/renovation work will commence after ADWR approval of the work plan. The construction work was originally scheduled for 2007/2008. However, ADWR extended the time frame for the work to be completed. This allows for a better planned approach and schedule for the project.</p> <p>The scope of work has increased due to the discovery of potential cracks in the dam structure, potentially impacting dam integrity.</p>
Requirement/Need for Project: <p>This work is required by Arizona Department of Natural Resources in inspection reports dated July 3, 2002 and July 3, 2007. The 2007 letter extended the deadline for the work from 2007 to 2012. However, the work should not be delayed for that long due to the potential structural issues with the dams.</p>
Consequence of Not Performing Project: Non-compliance with regulatory requirements. Fines and penalties.
Operation Impacts for Maintenance, Staffing, Etc.: <p>On-going berm maintenance will increase to remain in compliance and ensure the berms will not fall into disrepair again. On-going maintenance costs are for equipment rental and overtime man-hours, assuming the Decision package for a part-time utility man is not approved.</p>
Related Projects: <i>no answer</i>
Possible Funding Source: wastewater

Note: This project was originally planned for construction implementation in 2007/2008. ADWR extended the deadline, allowing for a better-planned approach to the work. \$66,000 of the 2007/2008 budget of \$325,000 was used to implement the emergency repair of the wastewater plan SCADA system. The \$66,000 will be deducted from the projected 08/09 SCADA budget. The unexpended 07/08 berm repair budget is requested to be rolled forward to the 08/09 budget.

Proposed Expenditures:

	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013
Construction	\$550,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction Mgt.	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$25,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
<u>FY Totals:</u>	<u>\$625,000.00</u>	<u>\$5,000.00</u>	<u>\$5,000.00</u>	<u>\$5,000.00</u>	<u>\$5,000.00</u>
<u>Expenditures Total: \$645,000.00</u>					



City of Sedona
 Capital Worksheet
 Fiscal Year 2008-2009

Project Title: ADA Compliance for Wastewater				
22 Capital Improvements Fund: 59-5252-00-955, TREATMENT PLANT O&M				
Department: Wastewater Capital				
Community Plan Element: Not applicable.				
Capital Improvement Plan Program: <i>no answer</i>				
Project Description: As part of the ADA compliance agreement with the Department of Justice (DOJ), the City is required to make certain modifications to City facilities. The consent agreement is due to be closed out in FY 2009. This request is to provide a contingency, in case items from the consent decree have not been completed.				
Requirement/Need for Project: Ensures the City is compliant with the Department of Justice ADA agreement.				
Consequence of Not Performing Project: The City will be in violation of the Compliance Agreement with the DOJ.				
Operation Impacts for Maintenance, Staffing, Etc.: Limited, if any.				
Related Projects: ADA Compliance				
Possible Funding Source: <i>no answer</i>				
Proposed Expenditures:				
	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$0.00	\$0.00	\$0.00	\$0.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$10,000.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$10,000.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
<u>Expenditures Total: \$10,000.00</u>				



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: Chapel Area Sewer Improvements
22 Capital Improvements Fund: 59-5252-00-956, COLLECTION SYSTEM
Department: Wastewater Capital
Community Plan Element: Community Facilities 3.1
Capital Improvement Plan Program: Wastewater and Streets
Project Description: Installation of sewer mains and associated manholes and sewer connections in the Chapel Area in 2007 through 2009. Approximately 25,000 feet of sewer mains and 366 sewer service connections. The work will be done concurrently with storm drainage improvements along Antelope Drive and other areas where the sewer line will be installed (to prevent disturbing the area a second time to install the storm drainage) (related project). Additional fire hydrants (related project) will be installed during the construction. After sewer, water and storm drain work has been accomplished in each area, the roads will be milled, shaped, and compacted and an asphalt cement concrete overlay applied. The design for the storm drainage improvements, sewer mains and road work has essentially been done. The project was designed in four areas, Areas 1B and 2 is anticipated to start in late 2007/2008 and continue into 2008/2009, and Areas 3 and 4 should start in mid- to late 2008/2007 and continue into 2009/2010. Area 1A sewer and storm drainage project are scheduled for FY 2007/2008 and 2008/2009 as part of the construction contract but funded separately. Construction management will be accomplished in-house. Update record drawings after construction completed.
Requirement/Need for Project: The goal of the Wastewater Master Plan is to connect as much of the Sedona area as possible to the Municipal Wastewater Treatment Facility.
Consequence of Not Performing Project: A portion of the City would remain unconnected
Operation Impacts for Maintenance, Staffing, Etc.: Increased costs for maintenance and operation of more extensive sewer collection system and more treated wastes.
Related Projects: Chapel Area 1A Sewer Collection System Project, Chapel Area IA - Storm Drainage Improvement (Vista Bonita), Chapel Area Storm Drainage Improvements

Possible Funding Source:

Excise Tax Obligations (\$7,405,000 earmarked)

Proposed Expenditures:

	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$3,500,000.00	\$3,200,000.00	\$0.00	\$0.00
Construction Mgt.	\$10,000.00	\$5,000.00	\$0.00	\$0.00
Contingency	\$300,000.00	\$350,000.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$25,000.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$3,835,000.00</u>	<u>\$3,555,000.00</u>	<u>\$0.00</u>	<u>\$0.00</u>

Expenditures Total: \$7,390,000.00



City of Sedona
Capital Worksheet
 Fiscal Year 2008-2009

Project Title: Odor Reduction Project				
22 Capital Improvements Fund: 59-5252-00-956, COLLECTION SYSTEM				
Department: Wastewater Capital				
Community Plan Element: Community Facilities 3.1				
Capital Improvement Plan Program: Wastewater				
Project Description: Install a solution to reduce impact of odors emanating from the transition manhole near Foothills South Subdivision, adjacent to 89A, a west entrance to city.				
Requirement/Need for Project: Reduce the impact of odors for residents and at the entrance to the City of Sedona. At this time of budget, the solution is not determined.				
Consequence of Not Performing Project: Resident dissatisfaction, loss of enjoyment of property, potential law suits regarding Park Place, and City reputation				
Operation Impacts for Maintenance, Staffing, Etc.: Increase costs for maintenance of installed odor system				
Related Projects: <i>no answer</i>				
Possible Funding Source: Wastewater fund FY expenditures for design and construction are estimated at \$60,000 for design and \$ 50,000 for construction.				
Proposed Expenditures:				
	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$185,000.00	\$0.00	\$0.00	\$0.00
Construction Mgt.	\$15,000.00	\$0.00	\$0.00	\$0.00
Contingency	\$50,000.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$50,000.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$300,000.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
<u>Expenditures Total: \$300,000.00</u>				



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: Miscellaneous Wastewater Collection System Projects
22 Capital Improvements Fund: 59-5252-00-956, COLLECTION SYSTEM
Department: Wastewater Capital
Community Plan Element: 12 Community Facilities
Capital Improvement Plan Program: Wastewater
Project Description: This project allows for flexibility in selecting what projects to design and construct, besides the Chapel Area Improvements. The project could come in the order of the current list, or it may be driven by a petition process.
Requirement/Need for Project: The need for the project will depend on the project selected. In general, allowing lots to be sewered allows for denser development.
Consequence of Not Performing Project: The City will not have allotted funds for wastewater improvements. This may result in either no projects being accomplished or the capital budget plan being disrupted by unplanned spending. Although some disruption of the plan is likely to occur, having an allowance helps in the effort to contain the disruption.
Operation Impacts for Maintenance, Staffing, Etc.: Increase sewer maintenance costs.
Related Projects: <i>no answer</i>
Possible Funding Source: 1/2 sales tax Wastewater

Proposed Expenditures:

	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$500,000.00	\$1,500,000.00	\$1,500,000.00	\$1,500,000.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$500,000.00</u>	<u>\$1,500,000.00</u>	<u>\$1,500,000.00</u>	<u>\$1,500,000.00</u>

Expenditures Total: \$6,000,000.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: Chapel Area 1A Sewer Collection System Project
22 Capital Improvements Fund: 59-5252-00-956, COLLECTION SYSTEM
Department: Wastewater Capital
Community Plan Element: Community Facilities 3.1
Capital Improvement Plan Program: Wastewater
Project Description: Project was designed in FY 2006/2007 and 2007/2008. Install sewer mains in Vista Bonita Drive, Meadowlark Drive, thence west to SR 179, extend across to Skyline Drive, provide connection to existing system in Indian Cliffs Drive, hence to Chapel Lift Station; and upgrade lift Station. Upgrade lift station located in Indian Cliff subdivision at the end of Talia Court.
Requirement/Need for Project: Install sewer improvements in this area in conjunction with Storm Drainage Improvements on Vista Bonita and extend sewer line across State Route 179 to Skyline Drive. The goal of the Wastewater Master Plan is to connect as much of the Sedona Area as possible to the Municipal Wastewater Treatment Facility. The installation of the storm drainage and sewer line as part of the same project minimizes construction disruption of area.
Consequence of Not Performing Project: The City will incur added costs to add sewer after storm drainage project is completed. New development on the west side of SR 179 would not be connected to the sewage collection system. A portion of the City would remain unconnected to the wastewater collection and treatment system.
Operation Impacts for Maintenance, Staffing, Etc.: Increased maintenance and operations costs for the sanitary sewer collection system and increase of treated wastes.
Related Projects: Chapel Area 1A Sewer Collection System Project, Chapel Area IA - Storm Drainage Improvement (Vista Bonita), Chapel Area Sewer Improvements
Possible Funding Source: \$.005 sales tax

Proposed Expenditures:

	FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012
Construction	\$750,000.00	\$50,000.00	\$0.00	\$0.00
Construction Mgt.	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$50,000.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$800,000.00</u>	<u>\$50,000.00</u>	<u>\$0.00</u>	<u>\$0.00</u>

Expenditures Total: \$850,000.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP - Northview Pump Station Abandonment
22 Capital Improvements Fund: 59-5252-00-956, COLLECTION SYSTEM
Department: Wastewater Capital
Community Plan Element: Community Plan Element 12
Capital Improvement Plan Program: <i>no answer</i>
Project Description: Abandon Northview Pump Station and convert to gravity flow with new sewer lines as needed, or upgrade pump station. Option is dependent on acquisition of easement.
Requirement/Need for Project: Aging piping makes this area a high-risk area for sewer line blockage and spills. A gravity sewer line is preferable to a pumped system because of the reduction in long term energy and maintenance costs for the collection system. If an easement cannot be obtained for reconstruction, the pump station should be upgraded. This project was delayed from 2007/2008 due to lack of in-house personnel availability for design work. The project is re-scoped for contract design.
Consequence of Not Performing Project: Continued maintenance of the pump station. Continuing high risk of blockage, leaks, and spills.
Operation Impacts for Maintenance, Staffing, Etc.: Reduced maintenance and operating costs.
Related Projects: <i>no answer</i>
Possible Funding Source: <i>no answer</i>

Proposed Expenditures:

	FY 2008-2009	FY 2010-2011
Construction	\$400,000.00	\$0.00
Construction Mgt.	\$25,000.00	\$0.00
Contingency	\$0.00	\$0.00
Design/Engineering	\$125,000.00	\$0.00
Environmental	\$0.00	\$0.00
Equipment	\$0.00	\$0.00
Land Acquisition	\$0.00	\$0.00
Maintenance	\$0.00	\$0.00
<u>FY Totals:</u>	<u>\$550,000.00</u>	<u>\$0.00</u>

Expenditures Total: \$550,000.00



City of Sedona
Capital Worksheet
Fiscal Year 2008-2009

Project Title: WWTP - Fencing for El Camino Pump Station
22 Capital Improvements Fund: 59-5253-56-946, PLANT UPGRADE
Department: Wastewater Capital
Community Plan Element: Element 12, Goal 3
Capital Improvement Plan Program: Wastewater
Project Description: Install a fence around the property boundaries of El Camino Pump Station
Requirement/Need for Project: Only a portion of the pump station is currently fenced. The entire property needs to be reclaimed to make sure it is available for future use. Also, as the pump station is expanded, more space is needed, and the property needs to be kept secure. The storage container for spare pumps and equipment is currently stored outside the fence where it is accessible to hikers and could perhaps become an attractive nuisance for climbing upon and graffiti. The unit is kept locked, but it is more accessible and attractive outside the fence line.
Consequence of Not Performing Project: Loss of property use through increased use of the property for public hiking trails. Less space for equipment and improvements on site.
Operation Impacts for Maintenance, Staffing, Etc.: Work area less accessible
Related Projects: <i>no answer</i>
Possible Funding Source: <i>no answer</i>

Proposed Expenditures:

	FY 2008-2009
Construction	\$0.00
Construction Mgt.	\$0.00
Contingency	\$0.00
Design/Engineering	\$0.00
Environmental	\$0.00
Equipment	\$5,750.00
Land Acquisition	\$0.00
Maintenance	\$0.00
<u>FY Totals:</u>	<u>\$5,750.00</u>

Expenditures Total: \$5,750.00