

2005 – 2006 Proposed Budget --- Budget Summary

Sewer Fund – Water Reclamation Facility

2005 – 2006 Water Reclamation Facility Budget Highlights

- Professional Services --- The Oregon Department of Environmental Quality (DEQ) will conduct a second Total Daily Maximum Loading (TMDL) evaluation on the South Yamhill River during 2006. This TMDL will be focused on temperature, bacteria, iron, and also may include a review of the nutrient evaluation conducted during the first TMDL (ammonia and phosphorus). Much of this year's professional services budget will be to support a participatory approach with DEQ.
- WRF Administrative Building Conservation Project --- A study was conducted last fiscal year to identify energy conservation measures for the WRF Administrative Building. The analysis performed by EESI of Corvallis recommended a number of energy saving measures for the laboratory and the Administration Building. In part, the recommendation is to use a heat pump to replace the existing electric strip heat source in the main supply air fans. One advantage this system offers is the ability to use plant effluent (final treated water) as a source of heat. The direct cost to the WRF after tax credits and other utility incentives would be approximately \$80,000. Using a simple payback calculation it would take the WRF 4.1 years to recover its investment.

✤ New Programs, Projects, or Equipment:

- Privatize landscape maintenance and janitorial service.
- \$180,000 Implement the results of the Administration Building energy conservation project.
- \$22,000 Replacement vehicle for the Pretreatment Program.

Full-Time Equivalents

	<u>2004 - 2005</u>		<u>Change</u>	<u> 2005 - 2006</u>
FTE Adopted Budget Facility Maint Speciali Extra Help - WRF FTE Proposed Budget	14.68 st	- + -	1.00 <u>0.73</u> 0.27	14.41

Short- and Long-Term Issues

WRF Operations:

A Short-Term Issues

• Implement changes to Supervisory Control and Data Acquisition (SCADA) system, including radio telemetry system.

A Long-Term Issues

- Test and evaluate replacement aeration equipment for the solids digestion process.
- Evaluate the impacts to the WRF of the proposed Total Daily Maximum Load (TMDL) process for the South Yamhill River.



2005 – 2006 Proposed Budget --- Budget Summary Sewer Fund – Water Reclamation Facility

Short- and Long-Term Issues - Continued

WRF Maintenance:

✤ Short-Term Issues

• Contract both landscape and janitorial services to private contractors.

✤ Long-Term Issues

- Ensure all future motor and gearbox replacements are with energy efficient models.
- Assess all older pump station control systems for upgrades to improve control and reliability.

Pretreatment Program:

✤ Short-Term Issues

• Respond to recommendations/requirements resulting from the March 2005 DEQ Pretreatment Program Audit.

✤ Long-Term Issues

- Conduct a review of Local Discharge Limitations for conventional and toxic pollutants (Local Limits) as required by the WRF's new NPDES Permit.
- Develop a Fats, Oils, and Grease (FOG) control program to reduce sanitary blockages and sewer cleaning frequency.
- Expand Pretreatment Program Industrial User computer data management system.

Laboratory

✤ Short-Term Issues

• Develop an ambient sampling plan to correspond to the upcoming TMDL for the South Yamhill River.

✤ Long-Term Issues

• Continue to develop laboratory protocol that meets the National Laboratory Accreditation Program requirements.

Core Services

✤ Operations

- Provide cost effective and efficient operation of the WRF necessary to achieve NPDES permit requirements.
- Provide 24-hour per day alarm monitoring response for WRF and pump stations.

- Perform predictive, preventative, and corrective maintenance required to keep equipment operational and minimize down time.
- Perform equipment repairs and upgrades that will extend the useful life of the WRF and pump station equipment.

Pretreatment

- Provide source control for the collection system and WRF to protect against illicit discharges and harmful wastes that impact the treatment processes or may be harmful to employees working in the collection system.
- Prepare and issue permits to industrial dischargers and enforce the sewer user ordinance as required.

≁ Laboratory

- Perform required laboratory analysis per the NPDES permit.
- Maintain precision through extensive quality assurance and quality control measures.



In 2004, the pretreatment staff spent 2,700 hours inspecting, sampling, and monitoring industries.



- **1953** McMinnville's first wastewater treatment facility begins operation on May 4, 1953. The construction cost totaled \$396,456.40 and was designed to serve a population of 8,000. The residential user fee was \$0.75 per month.
- **1964** First sewage treatment plant upgrade was completed in March adding a new 35' digester with mechanical mixing and upgraded digester heating system.
- **1971** Major expansion of the original trickling filter plant to an activated sludge treatment system to meet a growing population and changing water quality standards.
- **1989** Department of Environmental Quality (DEQ) conducts first Total Maximum Daily Loading (TMDL) evaluation on the South Yamhill River. River is water quality limited for phosphorus and ammonia.

Sewer Fund – Water Rec. Facility --- Historical Highlights

- **1992** City's Pretreatment Program is approved by DEQ on October 25, 1992.
- **1993** City breaks ground on new Water Reclamation Facility (WRF).
- **1995** City explores outsourcing WRF operations and management. City Council decides to retain direct operating control of WRF after considering cost analysis.
- **1996** The \$28 million Water Reclamation Facility (WRF) begins operating on January 24, 1996, in response to new water quality standards and the City's growing population.
- **1998** WRF receives two awards from The Pacific Northwest Pollution Control Association ---. Municipal Water Protection Award for WRFs contribution to clean water and George W. Burke Facility Safety award.

- 1999
 - The Oregon Association of Clean Water Agencies (ACWA) presents WRF with Outstanding Member Agency Award for its contribution to improving water quality.
- **2005** WRF begins tenth year of operation in January. A second TMDL evaluation for the South Yamhill River will begin in 2006.



The WRF recycled 3.9 million gallons of biosolids (fertilizer) to agricultural land.



WRF Laboratory received 1,838 samples and performed over 12,500 analyses last year.

The WRF treated 1.6 billion gallons of wastewater in 2004.



55	10				2005-06			1	I0-May-05
	ACTUAL 2002-03	ACTUAL 2003-04	BUDGET 2004-05			NUMBER OF EMPLOYEES	PROPOSED 2005-06	APPROVED 2005-06	ADOPTED 2005-06
					REQUIREMENTS				
					PERSONAL SERVICES				
	75,372	75,372	77,033	80245-00 Ron Bittler	WRF OPERATIONS MANAGER	1.00	79,478	0	0
	64,901	64,901	65,868	80257-00 Ernie Strahm	WRF OPERATIONS SUPERINTENDENT	1.00	67,624	0	0
	62,760	34,268	0	80295-00	WRF ENVIRONMENTAL SVCS SUPVR	0.00	0	0	0
	60,714	7,680	46,774	80298-00 Steve Covey	WRF LABORATORY TECH - SENIOR	1.00	46,867	0	0
	43,788	37,321	44,441	80304-00 Lora Lyons	WRF LABORATORY TECHNICIAN	1.00	46,093	0	0
	0	10,449	39,889	80304-05 Cindy Esterle	WRF SR ENVIRONMENTAL TECH	1.00	46,324	0	0
	0	20,267	39,677	80305-00 Larry Morse	WRF ENVIRONMENTAL TECH II	1.00	40,253	0	0
	50,436	50,436	51,181	80307-00 Dave Gehring	WRF OPERATOR - SENIOR	1.00	52,540	0	0
	127,143	127,584	130,885	80308-00 Tim Munro Rick Williams Matthew Young	WRF PLANT OPERATOR II	3.00	137,147	0	0
	90,718	91,992	93,382	80323-00 David Allen Leland Koester	WRF MECHANIC	2.00	96,056	0	0
	36,276	37,776	38,664	contractual land	FACILITIES MAINT SPECIALIST II This vacant position was eliminated and the position duties allocated dscape maintenance, Account #55-10-80631-00; contractual janitoria 00; and extra help, Account #55-10-80385-00.		0 nt	0	0
	30,246	30,984	31,452	80371-00 Patti Buffett	OFFICE SPECIALIST II	1.00	32,302	0	0
	9,841	15,981	12,000		EXTRA HELP - WRF Budget amount increased to cover some duties of the Facilities Maint nt #55-10-80341-00, that was eliminated from the 2005 - 2006 Prope		25,000 t II	0	0
	8,589	9,999	15,000	80386-00	OVERTIME	0.00	15,000	0	0

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55	10				2005-06				10-May-05
	ACTUAL 2002-03	ACTUAL 2003-04	BUDGET 2004-05			NUMBER OF EMPLOYEES	PROPOSED 2005-06	APPROVED 2005-06	ADOPTED 2005-06
	0	0	0	80388-00	FRINGE BENEFITS:	0.00	0	0	0
	48,852	44,815	52,498	80389-00	FICA	0.00	52,376	0	0
	133,543	108,892	127,633	80390-00	PERS, OPSRP & IAP	0.00	159,576	0	0
	59,984	63,653	95,268	80391-00	HEALTH INSURANCE	0.00	93,900	0	0
	1,163	1,074	1,260	80392-00	LIFE INSURANCE	0.00	897	0	0
	13,125	12,634	15,261	80393-00	WORKERS' COMPENSATION INS	0.00	18,751	0	0
	0	0	1,000	80394-00	UNEMPLOYMENT	0.00	2,500	0	0
	3,577	3,246	3,757	80395-00	DISABILITY INSURANCE	0.00	3,673	0	0
	921,028	849,324	982,923	ΤΟΤΑΙ	L PERSONAL SERVICES	14.41	1,016,357	0	0
					MATERIALS & SERVICES				
	363	325	1,000	80418-00 Expenditures r	SAFETY TRAINING/OSHA equired to conduct safety meetings, training films, posters, and hand	0.00 douts, etc.	1,000	0	0
	574	1,029	850	80420-00	EMPLOYEE DEVELOPMENT sentations, seminars, and workshops providing continuing developm	0.00	900 oyees.	0	0
	5,054	8,969	10,000	Federation Nat	TRAVEL & EDUCATION and registrations to professional organizations, attendance at the Wa tional Conference; and reimbursements to employees for approved e enses incurred. Includes continuing education credits required for en	education program	12,000 ns	0	0
	4,385	4,806	5,000	80431-00 Gas, oil, and g	GAS - OIL - GREASE rease used by vehicles, plant, and pump stations.	0.00	5,000	0	0
	343,930	319,259	317,400	52,100 Elec 35,000 Elec	FUEL & POWER trical and natural gas for WRF trical and natural gas for Raw Sewage Pump Station trical and natural gas for Cozine Pump Station trical for all other pump stations	0.00	319,300	0	0
					Power and fuel costs do not include any future rate adjustment or ch tions by McMinnville Water & Light or NW Natural Gas.	nange in demand			
	19,639	17,500	20,000		TELECOMMUNICATIONS d fax usage, telemetry lease lines, pagers, and Nextel communication costs for the fiber connection to WRF for computer services.	0.00 n system charges	20,000	0	0
	8,422	15,871	9,500		MATERIALS & SUPPLIES ective clothing, general cleaning supplies, office supplies, garbage s , postage, and shipping costs.	0.00 service,	11,000	0	0

10			2005-06				10-May-05
ACTUAL 2002-03	ACTUAL 2003-04	BUDGET 2004-05		NUMBER OF EMPLOYEES	PROPOSED 2005-06	APPROVED 2005-06	ADOPTED 2005-06
17,306	13,965	4,200 1,600 12,000	0 LAB EXPENSE Materials and supplies Laboratory instrument maintenance agreements and equipment cali Water purification system filters and maintenance Ambient Program; river sampling and data logger replacements Quality Assurance and Quality Control (QA/QC) EPA study	0.00 ibration service	29,400	0	0
22,833	23,683	ar 4,420 Pr 6,060 U3 2,500 Ya 1,500 DI 1,150 DI 250 Ya 750 DI 500 O	D PERMIT & BASIN COUNCIL FEES ational Pollutant Discharge Elimination System (NPDES) compliance nual fee retreatment Program fee - includes population based fee S Geological Survey river monitoring station annual fee amhill Basin Council support EQ plan review fee EQ annual wastewater certification support fee amhill County annual electrical inspection fee EQ hazardous substance possession fee regon Department of Consumer Services - compressor permits EQ Stormwater fee	0.00 e determination	25,500	0	0
0	0	0 80472-9	9 REPAIRS & MAINTENANCE:	0.00	0	0	0
91,674	155,143	33,000 35,000 10,000 8,000 1,500	0 R&M - EQUIPMENT Routine mechanical and electrical at plant and pump station ATAD #3 protective coating application - digester Instrumentation and control repairs HVAC control maintenance UV system maintenance Rental equipment Irrigation system and in WRF water system maintenance	0.00	162,500	0	0
3,021	2,691	4,200 80477-0	0 R&M - VEHICLES	0.00	4,400	0	0
21,425	19,978		0 R&M - SUPPLIES nd maintenance supplies such as HVAC filters, fasteners, packing, e , paint, and PVC pipe fittings.	0.00 electrical components,	21,000	0	0
2,715	3,457		0 R&M - RENTAL PROPERTY Drive rental property repairs and routine maintenance. Property ta nately 50% of total.	0.00 axes and insurance expe	4,200 nse is	0	0
54,400	57,600	67,100 80511-0	0 INSURANCE-PROPERTY & LIABILITY	0.00	64,500	0	0
62,747	51,799	4,000 13,000 6,500	Poly aluminum chlorohddrate (PAC) Sodium hypochlorite Polymer	0.00	47,500	0	0

10				2005-06				10-May-05
ACTUAL 2002-03	ACTUAL 2003-04	BUDGET 2004-05			NUMBER OF EMPLOYEES	PROPOSED 2005-06	APPROVED 2005-06	ADOPTED 2005-06
576	1,271	3,000) 80609-00 Janitorial co	JANITORIAL SERVICES & SUPPLIES ntract for administration and headworks building.	0.00	8,800	0	0
				 Janitorial duties were previously performed by the Facilities Ma -10-80341-00. 	aintenance Specialist II,			
34,997	22,047	43,950	3,600 Aud 600 Wa	PROFESSIONAL SERVICES: gineering and technical support dit fee allocation ter & Light Department sewer billing fee - annual stion 125 employee accounts administration fee	0.00	39,550	0	0
980	1,410	1,100	80611-05	PS - HUMAN RESOURCES	0.00	2,600	0	0
0	0	C) 80611-21 Design cost	PS - ADMIN BLDG ENERGY CONSV for upgrading heating and cooling system.	0.00	25,000	0	0
0	0		0 0	PS - OXIDATION DITCH UPGRADE and electrical consultant services for design of oxidation ditch up	0.00 ograde project.	30,000	0	0
0	20,548	15,000	80611-53 80611-53	PS - EQUIPMENT STORAGE BLDG	0.00	0	0	0
36,760	16,830	16,800) 80612-00 Shared netw	COMPUTER SERVICES - IS FUND ork services cost - Network and PC support agreements, license financial systems, internet connection etc.	0.00 es,	16,283	0	0
0	0	0	80615-00	CONTRACT SERVICES:	0.00	0	0	0
48,106	76,241	64,500) 80615-01 Biosolids ha	CS - BIOSOLIDS uling from the WRF.	0.00	68,700	0	0
23,126	22,441	43,500		CS - LAB pratory services - semi-annual metals using "ultra clean" sampling to perform bioassay (toxicity test) on effluent.	0.00 g techniques and permit	36,200	0	0
7,280	5,794	8,550	550 Fire 2,000 Fire 3,000 Fire 1,400 Pho 15,000 WR	MAINTENANCE & RENTAL CONTRACTS vator maintenance contract e alarm monitoring and service calls e sprinkler maintenance, extinguishers, and backflow testing e system inspections, testing, and repair twice per year otocopier lease and maintenance agreement F landscape maintenance contract work previously performed illities Maintenance Specialist II, Account #55-10-80341-00	0.00 d by eliminated	23,750	0	0
8,736	5,470	8,500	2,000 M 3,000 R	SOFTWARE MAINTENANCE Il System Software: IP2 support S - Rockwell support ps 32 support	0.00	6,600	0	0

5	10				2005-06				10-May-05
	ACTUAL 2002-03	ACTUAL 2003-04	BUDGET 2004-05			NUMBER OF EMPLOYEES	PROPOSED 2005-06	APPROVED 2005-06	ADOPTED 2005-06
	0	0		30680-00 /laterials & S	M&S ASSETS: Supplies Asset purchases, with values under \$4,999 and more th	0.00 an one-year useful life	0	0	0
	0	0	08	30681-00	M&S EQUIPMENT:	0.00	0	0	0
	2,411	0	08	30681-01	M&S EQUIP - PLANT	0.00	0	0	0
	2,105	0	08	30681-03	M&S EQUIP - PUMP STATIONS	0.00	0	0	0
	775	4,030	2 1 2	,500 Boat t ,250 Labora 600 Field o	M&S EQUIP - LAB ble sampler (ambient program) railer (ambient program) atory dry incubator conductivity meter (ambient program) dissolved oxygen probe w/50' cable	0.00	7,200	0	0
	1,771	1,836	- /	30681-07 Replacement	M&S EQUIP - WRF COMPUTERS process computer, communication cards, and pretreatment data	0.00 abase.	17,000	0	0
					Increase due to purchase of new database for maintaining pre Department of Environmental Quality (DEQ).	treatment records as			
	11,000	3,600		6,029 De 3,2 2,5 3 1,556 M&S 991 M&S 5,880 M&S 5,863 Cap	M&S COMPUTERS - IS FUND partment computer equipment 00 Replacement computers - 2 00 InFocus projector 29 Software upgrade and PC extended warranty 8 Equipment - IS Department 8 Equipment - Network Software 8 Equipment - Network Hardware ital Equipment - Network Hardware/Software rmation Systems Fund - Designated Fund Balance utilized	0.00	14,290	0	0
	837,111	877,593	958,551	TOT	AL MATERIALS & SERVICES	0.00	1,024,173	0	0
					CAPITAL OUTLAY				
	33,423	33,334	23,000 8	30701-00	EQUIPMENT	0.00	0	0	0
	0	0	08	30704-00	EQUIPMENT - COMPUTER - IS FUND	0.00	0	0	0
	0	0	08	30704-99	EQUIPMENT - COMPUTER - WRF	0.00	0	0	0
	0	0		Replace 199	VEHICLES 2 3/4 ton van with a small pickup truck to be used by the pretreat ampling program.	0.00 tment section and labo	22,000 ratory	0	0
				Budget Note: surplused.	The van will be re-deployed to the Information Services Depart	ment with the present	S van		
	0	0	15,000 8	30771-00	BUILDING IMPROVEMENTS:	0.00	0	0	0

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	ACTUAL 2002-03	ACTUAL 2003-04	BUDGET 2004-05			NUMBER OF EMPLOYEES		APPROVED 2005-06	ADOPTED 2005-06		
	0	0	C	80771-21 Equipment an	ADMIN BLDG ENERGY CONSERVATN d construction cost for upgrading administration building heating and	0.00 d cooling system.	155,000	0	0		
			Budget Note: Projected \$75,000 of energy conservation incentives, rebates, and cashing tax credits are anticipated from these WRF administration building renovations, Account #55-00-60167-00.								
	0	0	C	80771-23 Installation of	OXIDATION DITCH UPGRADE new motors, gearboxes, and variable frequency drives (VFD's) on the	0.00 ne oxidation ditche	140,000 s.	0	0		
			Budget Note: This project is being submitted as an energy conservation project to McMinnville Water & Light and the Bonneville Power Administration. Projected \$70,000 of energy conservation incentives, rebates, and cashing tax credits are anticipated from this oxidation ditch upgrade project, Account #55-00-60167-00.								
	0	2,160	260,000	80771-53	EQUIPMENT STORAGE BUILDING	0.00	0	0	0		
	0	0	C	80773-00	LAND IMPROVEMENTS	0.00	0	0	0		
	33,423	35,494	368,000	ΤΟΤΑ	L CAPITAL OUTLAY	0.00	317,000	0	0		
1	,791,562	1,762,411	2,309,474		TOTAL REQUIREMENTS	14.41	2,357,530	0	0		