



Technical Report

60/38922

Operation and Maintenance Costs for Municipal Wastewater Facilities

	OPERATION					SUB TOTAL OPERATION	MAINTENANCE			SUB TOTAL MAINTENANCE	TOTAL
	SALARIES & WAGES	EMPLOYEE BENEFITS	MATERIALS & SUPPLIES	POWER & LIGHT	MISCEL- LANEOUS		SALARIES & WAGES	EMPLOYEE BENEFITS	MATE- RIALS & SUPPLIES		
Plant Treatment*	\$1,192,473	\$252,135	\$1,551,462	\$ 780,709	—	\$3,776,779	\$ 593,304	\$125,448	\$249,188	\$ 967,940	\$4,744,719
Rain Pumping	200,228	42,335	18,512	209,662	—	470,737	57,238	12,128	46,740	116,106	586,843
Laboratory	130,446	27,581	17,751	694	—	176,472	4,942	1,036	594	6,572	183,044
Water Survey & Industrial Wastes	73,386	15,514	3,111	580	—	92,591	22	—	2	24	92,615
Intercepting Sewer System	—	—	2,972	6,061	—	9,033	263,036	55,612	43,702	362,350	371,383
Upper Allegheny System	—	—	43	8,777	—	8,820	24,804	5,241	4,220	34,265	43,085
Billing & Collecting	360,076	76,153	32,314	4,888	\$207,733	681,164	5,332	1,124	164	6,620	687,784
Engineering	179,112	37,873	6,752	1,447	34,503	259,687	69	—	6	75	260,121
Administration & General	261,830	55,416	73,375	1,270	125,151	517,042	94,202	19,912	19,237	133,351	650,393
Total Operating Expenses—1974	2,397,551	507,007	1,706,292	1,014,088	367,387	5,992,325	1,042,949	220,501	363,853	1,627,303	7,620,628
Percent of Total	31.5	6.6	22.4	13.3	4.8	78.6	13.8	2.9	4.7	21.4	
Total Operating Expenses—1973	2,065,646	418,282	954,845	457,197	366,445	4,262,415	855,311	179,691	221,827	1,256,829	5,519,244
Percent of Total	37.4	7.6	17.3	8.3	6.6	77.2	15.5	3.3	4.0	22.8	
Total Operating Expenses—1972	1,706,988	348,972	878,859	323,483	275,835	3,534,137	750,132	153,146	137,525	1,040,803	4,574,940
Percent of Total	37.3	7.6	19.2	7.1	6.0	77.2	16.4	3.4	3.0	22.8	
Total Operating Expenses—1971	1,586,838	257,278	669,868	286,812	262,706	3,063,502	647,883	104,497	146,224	898,604	3,962,106
Percent of Total	40.1	6.5	16.9	7.2	6.6	77.3	16.4	2.6	3.7	22.7	
Total Operating Expenses—1970	1,389,711	285,348	522,648	246,387	263,730	2,707,824	549,136	112,739	124,228	786,103	3,493,927
Percent of Total	39.8	8.2	15.0	7.0	7.5	77.5	15.7	3.2	3.6	22.5	
Year Avg. Operating Expenses	1,829,348	363,377	946,502	465,593	307,221	3,912,041	769,082	154,115	198,731	1,121,928	5,033,969
Percent of Total	36.3	7.2	18.8	9.3	6.1	77.7	15.3	3.1	3.9	22.3	
*Breakdown of Treatment Expenses											
Screening & Grit Removal	185,995	39,344	27,717	2,082	—	255,138	37,637	7,960	8,776	54,373	312,543
Coagulation & Sedimentation	178,912	37,823	9,376	3,585	—	229,696	73,554	15,546	14,143	103,243	332,939
Secondary Treatment	190,350	40,256	181,152	529,243	—	941,001	72,673	15,370	14,771	102,814	1,043,815
Sludge Filtration	314,296	66,418	607,697	84,769	—	1,073,180	108,368	22,911	43,763	175,042	1,248,222

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FRD 22

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	
Background	1-1
Purpose	1-2
Objectives	1-2
Approach	1-2
Scope	1-3
2.0 DEFINITIONS AND PROCEDURES	
Introduction	2-1
Definition of Terms	2-1
Data Collection Procedures	2-5
Cost Updating Procedures	2-10
Data Analysis and Presentation	2-12
3.0 FINDINGS	
Introduction	3-1
Treatment Plants	3-2
Conveyance Systems	3-68
4.0 DATA UTILIZATION	
Introduction	4-1
Example Problem	4-1
Cost Updating	4-2
REFERENCES	R-1
APPENDIX A - LIST OF WASTEWATER CONTROL FACILITIES IN THE DATA BASE	A-1