

CITY OF WASILLA

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COUNCIL MEMORANDUM NO. <u>95-22</u>

SEWER RATE STUDY

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INTRODUCTION

n late 1994 the finance department was directed to take the lead in developing a rate study for the city of wasilla sewer system. I would like to acknowledge the help and assistance of the public works department & the other utilities around the state who provided us with information. This study is intended as an interactive study as we don't have all the answers. Input will be welcomed at each step of the process from others in the administration, the council, rate payers & the public. Somehow at the end of this process we need to come up with an acceptable method of funding our sewer utility.

he sewer utility planned its FY95 budget on the assumption that there would be a 25% rate increase put into effect on July 1, 1994. This did not happen and the sewer utility is looking at an operating deficit of around \$60,000 for FY95 providing nothing happens in the interim. The sewer utility is still experiencing higher than expected operating & maintenance expenditures due largely to failure of mechanical equipment & increased manpower requirement with reference to confined spaces. Other major factors affecting the sewer utility will be covering part of the cost of depreciation on the plant & collection system, and assuming increased costs of monitoring the pretreatment of industrial type wastes required by our new discharge permit.

RECOMMENDATION

The Public Works & Finance departments recommend that the rate changes and other changes outlined in Ordinance 95-13 be implemented by the City Council. It is important that we recover enough revenue to pay the operating costs of the sewer utility y and begin paying back the water utility & general fund for past deficits.

Increasing the user base is also a goal of the Administration, but this will take time. There are also increased operating expenses with the increased number of users which limits the financial impact.

GOALS OF A SEWER RATE STRUCTURE

- 1. Provide funds to retire any bonded indebtedness on existing facilities or new facilities.
- 2. Finance the operation and maintenance of existing facilities.
- 3. Provide adequate funds for the normal annual additions and replacements.
- 4. Provide the funds needed for the management and planning activities of the utility.
- 5. Provide funds for depreciation of plant.
- 6. Provide sufficient funds to hire consultants to do rate studies.
- 7. Earn a profit.

ANALYSIS OF CURRENT RATE STRUCTURE

THERe are many different ways to allocate the costs of a sewer system to the rate payers; .strength of b.o.d, peak usage, total gallonage & many other very sophisticated systems are used. Currently the city of wasilla sewer revenue requirements are being attempted to be met by rates that are allocated on a volume measurement of water consumed. The volume is measured by a water meter or by average use methodology for class i customers. Class i customers are residential units of 12 bedrooms or less or a facility serving 25 or less people. Class ii customers not on the city water system(more than 12 bedrooms or a facility serving more than 25 people) are required to install a meter on the private domestic water supply. There are no separate rates for industrial use as there is no industry here in wasilla that is perceived to be contributing to any special problem of pumping or treatment.

ANALYSIS OF CURRENT RATES

The current rates went into affect june 1, 1990. The base rate is \$3.25 per thousand gallons per month.

The rate drops to \$2.75 per thousand gallons per month for use over 250,001 gallons.

The current trend in sewer/water rates is to not give any rate breaks based on volume. In fact, in some political jurisdictions short of water, additional charges are levied for excessive consumption.

Minimum monthly rate is \$16.25

Non metered flat fee is \$22.00 per month

Turn off, flat fee of \$25.00

Turn on, flat fee of \$25.00

Meter charge, cost plus 25%

Late payment, \$5.00 or 8% whichever is greater

Service calls, \$25.00 per hour

Connection fees, cost of materials & labor +25%

Service deposit, estimated cost of one month's service

POSSIBLE REVENUE ENHANCEMENTS

1. METERS.

Currently the 25% markup on water meters sold for class 2 sewer customer locations is recorded in the water utility fund. We could administratively change this by at least recording the 25% markup in the sewer utility fund. No estimate of revenue but very slight impact.

2. TURN OFF, TURN ON FEES.

The application of turn off, turn on fees is not being applied consistently. Public works & finance personnel can correct this situation administratively. No estimate of revenue but very slight impact

3. SERVICE CALL CHARGES.

The public works assistant director estimates that 95% of our service calls are concerned with the portion of the system that the city is responsible to maintain. Service calls that require the response of a crew that turn out to be the customer's responsibility to fix are not currently being billed. Council needs to address whether the public relations value of helping customers identify problems with their individual service is sufficient. If so, then section 5.20.055a should be repealed. Otherwise, the public works needs to start generating invoices for non city problems that are discovered. No estimate of revenue but very slight impact.

4. ELIMINATE VOLUME RATE REDUCTION OVER \$250,001 GALLONS.

THE INCRESASED revenue for FY94 would have been \$7700.00.

5. CONTRIBUTION FROM TAXES

I have talked with mike phillips of adec reguarding whether or not is permissible to shift tax revenue to the sewer utility to cover impacts of non-city residents to the city sewer system. This question arose because our sewer system was largely funded by an epa grant & we were led to believe that user fees would have to support the system 100%. According to mr phillips there is no prohibition of transfering tax revenue to supplement user fees, that it is a matter between the governing body and the rate payers/tax payers. If council can establish a rationale that can be computed each year at buget time as a policy a rate increase could be offset or tempered by this transfer.

6. USER RATE INCREASE

<u>A RATE</u>	RESULTS IN A RATE OF	WOULD RESULT IN
INCREASE OF:	PER THOUSAND	ADDITIONAL REVENUE OF:
<u>5%</u>	<u>\$3.41</u>	<u>\$10,813</u>
<u>10%</u>	\$3.58	<u>\$21,627</u>
<u>15%</u>	<u>\$3.74</u>	<u>\$32,440</u>
<u>20%</u>	<u>\$3.90</u>	<u>\$43,254</u>
<u>25%</u>	<u>\$4.06</u>	<u>\$54,067</u>
<u>30%</u>	<u>\$4.23</u>	<u>\$64,880</u>

7. INCREASE IN REQUIRED DEPOSIT

Currently the required deposit required is equal to one months estimated consumption. By adding \$50 to the current deposit we could recover the costs of disconnect & reconnect when a customer leaves without paying. The new customer does not want to pay for a problem caused by the prior occupant. This is not a large problem at this time and by changing it now we can prepare for the next downturn in the economy when a lot of the apartment dwellers tend to leave on short notice.

8. ESTABLISH FACILITIES CHARGE

There is a fixed cost involved in maintaing customer facilities beyond the gravity service line. A charge could be established to cover these fixed costs & the use rate would be added on top of the base rate.

9. ATTRACT MORE HIGH VOLUME, HIGH DENSITY CUSTOMERS

Assisting the few high volume commercial and high density residential areas & iditared school to connect to the sewer utilty should be a priority.

10. CHARGE A FEE FOR DELIVERING SHUTOFF NOTICES.

WASILLA SEWER UTILITY HISTORICAL DATA

REVENUE	/EYDENDITLIBES	WITHOLIT	DEPRECTIATION
DEVENUE	/EXPENDITURES	WILLOUI	DEPRECHATION

	ALL		PROFIT	NON-CONTRIB	FUND
YEAR	REVENUE	EXPENSE	(LOSS)	DEPRECIATION	EQUITY
FY87	\$71,475.00	\$85,456.00	(\$13,981.00)		(\$13,981.00)
FY88	\$90,744.00	\$95,877.00	(\$5,133.00)		(\$327,567.00)
FY89	\$101,545.00	\$132,146.00	(\$30,601.00)		(\$639,599.00)
FY90	\$124,769.00	\$154,103.00	(\$29,334.00)		(\$972,163.00)
FY91	\$168,964.00	\$182,826.00	(\$13,862.00)		(\$993,304.00)
FY92	\$185,805.00	\$188,636.00	(\$2,831.00)		(\$998,622.00)
FY93	\$201,078.00	\$189,241.00	\$11,837.00		(\$1,001,239.00)
PRIOR YEARS A	DJUSTMENT		\$845,569.00		(\$155,670.00)
FY94	\$235,572.00	\$241,260.00	(\$5,688.00)	(\$9,019.00)	(\$170,377.00)
PROJECTED BA	SED ON AVERAG	E PERCENTAC	SE INCREASE	,	
FY95	\$280,160.92	\$311,116.00	(\$30,955.08)	(\$9,019.00)	(\$210,351.08)
FY96	\$333,189.60	\$362,789.98	(\$29,600.39)	(\$9,019.00)	(\$248,970.47)
FY97	\$396,255.52	\$423,046.62	(\$26,791.11)	(\$9,019.00)	(\$284,780.57)
FY98	\$471,258.51	\$493,311.43	(\$22,052.92)	(\$9,019.00)	(\$315,852.49)
FY99	\$560,458.02	\$575,246.68	(\$14,788.66)	(\$9,019.00)	(\$339,660.15)

	PERCENTAGE INC	CREASE	INCREASE IN D	OLLARS
	REVENUE	EXPENSE	REVENUE	EXPENSE
FY88	26.96%	12.19%	\$19,269.00	\$10,421.00
FY89	11.90%	37.83%	\$10,801.00	\$36,269.00
FY90	22.87%	16.62%	\$23,224.00	\$21,957.00
FY91	35.42%	18.64%	\$44,195.00	\$28,723.00
FY92	9.97%	3.18%	\$16,841.00	\$5,810.00
FY93	8.22%	0.32%	\$15,273.00	\$605.00
FY94	17.15%	27.49%	\$34,494.00	\$52,019.00
TOTAL INCREA	329.59%	282.32%	\$164,097.00	\$155,804.00
AVERAGE	18.93%	16.61%	\$23,442,43	\$22,257,71

	AVERAGE DAILY	POPULATION
	<u>FLOW</u>	
YEAR		
CY87	86,346	3927
CY88	72,524	3977
CY89	56,524	3977
CY90	90,649	3977
CY91	96,392	3342
CY92	110,110	3818
CY93	135,532	4028
CY94	136458	4124
CY95 EST	139,187	4381
CY96 EST.	141,971	4450

ANALYSIS OF USERS FISCAL YEAR 1994

		•			YEARLY	YEARLY
CLASS OF	RATE PER	AVG. MO. #	PERCENT	REVENUE	PERCENT	AVG REV
SERVICE	THOUSAND GAL.	OF USERS	OF USERS	GENERATED	OF TOTAL	PER USER
METERED	\$3.25	176.33	57.11%	\$138,966.79	62.96%	\$42,759.01
METERED	\$2.50	3.50	1.13%	\$47,788.95	21.65%	\$19,115.58
FLAT	\$22.00	128.90	<u>41.75%</u>	\$33,968,00	15.39%	\$34.097.47
		308.73	100.00%	\$220,723,74	100.00%	\$221,034,47

REVENUE DETAIL

		SEWER UTILIT	Y				MERCHAN
FISCAL	ADMIN	MTETERED	NON-METERED	SERVICE	LATE	CONNECT	DISING &
<u>YEAR</u>	INCOME	SALES	<u>SALES</u>	CHARGES	CHARGES	CHARGES	JOBBING
FY87	\$0.00	\$10,861.66	\$11,344.21	\$0.00	\$0.00	\$405.00	\$0.00
FY88	\$0.00	\$26,772.19	\$63,092.12	\$325.00	\$189.92	\$384.05	\$0.00
FY89	\$0.00	\$31,157.55	\$66,796.75	\$175.00	\$721.88	\$2,693.72	\$0.00
FY90	\$0.00	\$68,106.82	\$31,066.65	\$0.00	\$2,037.55	\$25.00	\$23,583.20
FY91	\$0.00	\$137,706.50	\$10,605.70	\$50.00	\$1,324.57	\$100.00	\$21,350.77
FY92	\$0.00	\$140,252.06	\$32,802.00	\$400.00	\$4,082.56	\$375.00	\$6,927.76
FY93	\$0.00	\$156,467.16	\$33,089.90	\$35.00	\$4,239.69	\$300.00	\$5,540.65
FY94	\$2,050.00	\$182,168.75	\$34,099.16	\$150.00	\$4,072.10	\$725.00	\$2,552.61
TOTALS	\$2,050.00	\$753,492.69	\$282,896.49	\$1,135.00	\$16,668.27	\$5,007.77	\$59,954.99
AVGERAGES	\$256.25	\$94,186.59	\$35,362.06	\$141.88	\$2,083.53	\$625.97	\$7,494.37

SOURCE OF CONTRIBUTIONS SEWER PLANT

30-Jun-94

CONTRIBUTIONS IN AID

	GRANTS	OTHER	TOTAL
FY87	\$12,756,576.00	\$0.00	\$12,756,576.00
FY88	\$12,649,735.00	\$1,015,944.00	\$13,665,679.00
FY89	\$12,746,979.00	\$1,118,118.00	\$13,865,097.00
FY90	\$13,584,908.00	\$1,127,280.00	\$14,712,188.00
FY91	\$13,191,028.00	\$1,155,267.00	\$14,346,295,00
FY92	\$12,575,675.00	\$1,194,971.00	\$13,770,646.00
FY93	\$12,332,572.00	\$1,199,971.00	\$13,532,543,00
FY94	\$12,214,807.00	\$1,211,471.00	\$13,426,278.00

SURVEY OF SEWER CHARGES **METERED RATE FLAT RATES WASILLA RATE** UNDER 250,001 GAL \$3.25/1000 CLASS I \$22.00 PER MO. OVER 250,001 GAL \$2.75/1000 MINIMUM MONTHLY.5000 GAL \$16.25 **PALMER** RATE COMBINED WATER/SEWER MINIMUM @ \$2.725/1000 GAL \$27.25 5000-5500 GAL \$5.24/1000 GAL \$28.83 5501-6000 GAL \$5.07/1000 GAL \$30.40 6001-6500 GAL \$4.92/1000 GAL \$31.98 6501-7000 GAL \$4.79/1000 GAL \$33.55 OVER 7500 GAL\$1.75/1000 GAL **SOLDOTNA** RATE PER CONNECTION 5.000 GAL PER DWELLING UNIT SINGLE FAMILY \$9.74 + \$2.25/1000 \$20.99 \$24.18 DUPLEX \$9.74 + \$2.25/1000 \$20.99 \$15.96 **MULTI-FAMILY** \$9.74 + \$2.32/1000 \$21.34 \$10.12 TRAILER CT \$9.74 + \$2.32/1000 \$21.34 \$20.98 COMMERCIAL-LOW \$9.74 + \$2.18/1000 \$20.49 \$31.27-\$1013.83 COMMERCIAL-MED \$9.74 + \$2.87/1000 \$24.09 \$39.21-\$1291.52 MMERCIAL-HIGH \$9.74 + \$3.70/1000 \$28.24 \$47.75-\$1634.80 **SEWARD GROUPS GROUP RATE** A-C **RATE** D 0-5.000 GAL \$21.25 \$6.84/1000 \$4.25/1000 \$34.20 5,001-10,000 GAL \$4.25/1000 \$42.50 \$6.84/1000 \$68.40 10,001-50,000 GAL \$3.40/1000 \$56.10 \$5.47/1000 \$90.28 50,001-100,000 GAL \$2.83/1000 \$70.25 \$4.56/1000 \$113.08 OVER 100,000 GAL \$1.25/1000 \$2.65/1000 **KENAI** PER UNIT ALL METERED SVC \$2.85/1000 *5,000 GAL \$14.25 RESIDENTIAL 1-2 UNITS \$28.70 MINIMUM \$42.75 **RESIDENTIAL 3-72 UNITS** \$21.60 *MONTHLY MINIMUM IS EQUAL TO 15,000 GAL **HOMER** RATE 5.000 GAL **RESTAURANTS & BAKERIES** \$6.47/1000 \$32.35 ALL OTHER DOMESTIC STRENGTH \$5.19/1000 \$25.95 OTHER NON DOMESTIC \$4.91/1000+ \$.00211 mg/L B.O.D SEPTAGE \$134.57 FAIRBANKS MUNICIPAL UTILITIES SYSTEM

5,000 GAL

\$17.75

RATE

\$3.55/1000

ALL METERED

Prepared by FINANCE DEPARTMENT 2/23/95

NICIPALITY OF ANCHORAGE SIDENTIAL 4PLEX & UP METERED	\$1.94/M +	5,000 GAL	RESIDENTIAL	;	\$21.65/UN
WEIERED	\$5.30	\$15.00			
			TRAILERS		\$15.70
			COMMERCIAL		
			CUSTOMER CHG	\$8.50	
			PER 1,000 GAL PER		
			SUSPEND SOLIDS		
			#1/1,000 GAL	\$2.18	\$19.40
		ĺ	#2/1,000 GAL	\$2.52	\$21.10
		l	#3/1,000 GAL	\$2.92	\$23.10

	REVENUE REQUI	REMENTS		
	SEWER UTILITY			
	CITY OF WASILLA	1		
	12%/YR RISE IN	PRIOR YEAR	CURRENT YEAR	
FISCAL	OPERATING	DEPRECIATION	DEPRECIATION	
YEAR	REQUIREMENTS	ON CIA OTHER	ON CIA OTHER	TOTAL
1995	\$311,116			\$311,116
1996	\$348,450		\$9,055	\$357,505
1997	\$390,264	\$8,519	\$9,055	\$407,838
1998	\$437,096	\$8,519	\$9,055	\$454,669
1999	\$489,547	\$8,519	\$9,055	\$507,121
2000	\$548,293	\$8,519	\$9,055	\$565,867
2001		\$8,519		
2002		\$8,519		
2003		\$8,519		
2004		\$8,519		
2005		\$8,519		
2006		\$8,519		
2007		\$8,519		
2008		\$8,519		
2009		\$8,519		
2010		\$8,519		
2011		\$8,519		
2012		\$8,519		
2013		\$8,519		
2014		\$8,519		
2015		\$8,519		

RAT	E S	CENARIOS						I			T
		UTILITY			 						
		WASILLA				-		 			
F	. 01	WASILLA									
H	Υ				 	 		<u> </u>			
s	Ė			ELINI	DING SOUI		 				
C	A		SE!	VER RATE					OTHER		ļ
A	R	REVENUE				,	0=0/		OTHER		
1	S	REQUIREMENT	5%	10%	15%	20%	25%	30%	USER	SALES	TOTAL
┝┺╢	1		\$3.41	\$3.58	\$3.74	\$3.90	\$4.06	\$4.23	FEES	TAX	
-	9	\$311,116	\$238,300	6044440					\$14,356	\$31,111	\$283,767
	9		<u> </u>	\$244,113	0040.005	ļ			\$14,356	\$31,111	\$289,580
	5				\$249,925	40			\$14,356	\$31,111	\$295,392
	3					\$255,737			\$14,356	\$31,111	\$301,204
			ļ		ļ		\$261,549		\$14,356	\$31,111	\$307,016
								\$267,361	\$14,356	\$31,111	\$312,828
$\vdash \vdash \vdash$	4	\$257 FAE	COC1 111			ļ					
\vdash	9	\$357,505	\$261,144	A070					\$15,074	\$36,750	\$312,968
				\$273,579					\$15,074	\$36,750	\$325,403
	9				\$286,014				\$15,074	\$36,750	\$337,838
$\vdash \vdash \vdash$	6					\$298,450			\$15,074	\$36,750	\$350,274
	·····						\$310,885		\$15,074	\$36,750	\$362,709
								\$323,925	\$15,074	\$36,750	\$375,749
		0407.000									
	1	\$407,838	\$280,729						\$15,827	\$40,932	\$337,488
	9			\$294,097					\$15,827	\$40,932	\$350,856
	9				\$307,466				\$15,827	\$40,932	\$364,225
	7					\$320,834			\$15,827	\$40,932	\$377,593
							\$334,202		\$15,827	\$40,932	\$390,961
								\$348,219	\$15,827	\$40,932	\$404,978
	1	\$454,669	\$301,784						\$16,619	\$45,615	\$364,018
	9			\$316,155					\$16,619	\$45,615	\$378,389
	9				\$330,525				\$16,619	\$45,615	\$392,759
	8					\$344,896			\$16,619	\$45,615	\$407,130
							\$359,267		\$16,619	\$45,615	\$421,501
								\$374,335	\$16,619	\$45,615	\$436,569
	1	\$507,121	\$324,418						\$17,450	\$50,860	\$392,728
	9			\$339,866					\$17,450	\$50,860	\$408,176
	9				\$355,315				\$17,450	\$50,860	\$423,625
	9					\$370,763			\$17,450	\$50,860	\$439,073
							\$386,212		\$17,450	\$50,860	\$454,522
								\$402,411	\$17,450	\$50,860	\$470,721
	2	\$565,867	\$348,749						\$18,322	\$56,734	\$423,805
	0			\$365,356					\$18,322	\$56,734	\$440,412
	0				\$381,963				\$18,322	\$56,734	\$457,019
	0					\$398,571			\$18,322	\$56,734	\$473,627
							\$415,178		\$18,322	\$56,734	\$490,234
								\$432,591	\$18,322	\$56,734	\$507,647
		ITURES COMPUT		6					, , , , , , , , , , , , , , , , , , , ,		
REV	ENL	JE COMPUTED AT	T 7.5%								
					·			· · · · · · · · · · · · · · · · · · ·	<u> </u>	L	

COMPARATIVE RATE SURVEY

FOR

The State of Alaska

water & sewer rates
1993

dmq

(c) DAVID M. GRIFFITH & ASSOCIATES, LTD.

10200 E. Girard Ave. Building B, Suite 223 Denver, Colorado 80231 303-755-1996

DAVID M. GRIFFITH & ASSOCIATES, LTD.

11/15/93

STATE OF ALASKA

COMPARATIVE RATE SURVEY - RESIDENTIAL WATER BILLS

			<i></i>	D.1					γ	
		WATER MIN. BILL		WATER	WATER BILLS AT VARIOUS CONS. LEVELS		VELS	W. Rates	WATER	
		\$\$	GALLON8	5,000	10,000	15,000	20,000	25,000	Last	RATE
	ENTITY	ВІЩ	INCLUDED	Gallons	Gallons	Gallons	Gallons	Gallons	Changed	STRUC.
1	ANCHORAGE	24.75	_	24.75	24.75	24.75	24.75	24.75	Oct-91	F1
2	CORDOVA	18.00		18.00	18.00	18.00	18.00	18.00	Mar-90	F1
3	CRAIG	15.75	8,000	15:75	19.75	29.75	39.75	49.75	Jan-92	FLAT
4	HAINES	15.42	_	15.42	15.42	15.42	15.42	15.42	Jul-89	F1
5	HOMER	22.74	, . .	37.44	52.14	66.84	81.54	96.24	May-91	FLAT
6	JUNEAU	13.00	4,000	14.75	23.50	32.25	41.00	49.75	Aug-91	FLAT
7	KENAI	8.50		8.50	8.50	8.50	8.50	8.50	Jul-90	F1
В	KETCHIKAN	21.95	-	21.95	21.95	21.95	21.95	21.95	Aug-91	, F1
9	KODIAK	21.00	-	21.00	21.00	21.00	21.00	21.00	Jul-91	F1
0	NORTH POLE	3.90	5,000	3.90	21.15	38.40	55.65	72.90	Jul-89	DBR
1	PALMER	15.75	5,000	15.75	22.50	29.25	36.00	42.75	Oct-90	FLAT
2	PETERSBURG	17.03	6,000	17.03	28.31	42.41	56.51	70.61	Apr-91	FLAT
3	SAND POINT	15.00	_	15.00	15.00	15.00	15.00	15.00	N/A	F1
4	SEWARD	22.00	_	35.75	49.50	63.25	77.00	90.75	Jun -92	DBR
5	SITKA	12.00	_	12.00	12.00	12.00	12.00	12.00	Jul-92	F1
6	SOLDOTNA	15.42	_	15.42	15.42	15.42	15.42	15.42	Jul-91	F1
7	VALDEZ	8.50	_	8.50	8.50	8.50	8.50	8.50	Apr-84	F1
8	WASILLA	15.00	5,000	15.00	30.00	45.00	60.00	75.00	May-90	FLAT
9	WRANGELL	13.75	_	13.75	13.75	13.75	13.75	13.75	Sep-90	F1
	MATANUSKA-SUSITNA	18.68	_	18.68	18.68	18.68	18.68	18.68	Mar-92	F1
_			L	<u> </u>		4	-			

N/A = Not Available or Incomplete Response. FLAT = Flat rate structure with only one block.

INV = Inverted rate block structure.

DBR = Declining Block Rate Structure

- = Zero

F1 = Flat rate per household with no volume basis.

Note - measurements based on cubic feet have been converted into gallons.

HIGHEST BILL	\$24.75	\$37.44	\$52.14	\$66.84	\$81.54	\$96.24
LOWEST BILL	3.90	3.90	8.50	8.50	8.50	8.50
AVERAGE OF SAMPLE	15.91	17.42	21.99	27.01	32.02	37.04

^{) –} David M. Griffith & Associates, Ltd. 1993

urvey questions should be directed to Bob McLain, Environmental Consulting Division, (214)401 – 1222. your rates have changed or we have misinterpreted your rates, please complete the survey forms enclosed with this mailing.

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11/15/93

STATE OF ALASKA

COMPARATIVE RATE SURVEY - RESIDENTIAL SEWER BILLS

		C	UMPARA	IIIVE NA	IE SUHV	c1 – KI	ESIDENTIA	L SEWE	H DILLS			
	SEWE	MIN,	SEW. B	ILS AT	VARIOU	s cons.	LEVELS	BASIS OF	USE	MAX.	Rates	SEWER
	\$\$	GALLONS	5,000	10,000	15,000	20,000	25,000	WATER	WINTER	GALS.	Last	RATE
ENTITY	ВІШ	INCLUDED	Gals.	Gals.	Gals.	Gals.	Gals.	USED	AVG.7	BILLED	Changed	STRUC.
ANCHORAGE	21.05	_	21.05	21.05	21.05	21.05	21.05	F1	F1	F1	Nov-91	F1
CORDOVA	19.00	_	19.00	19.00	19.00	19.00	19.00	F1	F1	F1	Mar-90	F1
CRAIG	11.35	8,000	11.35	13.35	18.35	23.35	28.35	100%	NO	UNL	Jan-92	FLAT
HAINES	21.57	_	21.57	21.57	21.57	21.57	21.57	F1	F1	F1	Apr-87	F1
HOMER	_	_	25.95	51.90	77.85	103.80	129.75	100%	NO	UNL	May-91	FLAT
JUNEAU	32.50	_	32.50	32.50	32.50	32.50	32.50	F1	F1	F1	Jul-92	F1
KENAI	23.50	_	23.50	23.50	23.50	23.50	23.50	F1	F1	F1	Jan-90	F1
KETCHIKAN	23.00	-	23.00	23.00	23.00	23.00	23.00	F1	F1	F1	Feb-90	F1
KODIAK	24.75	-	24.75	24.75	24.75	24.75	24.75	F1	F1	F1	Jul-91	F1
NORTH POLE	3.90	5,000	3.90	21.15	38.40	55.65	72.90	100%	NO	UNL	Jul-89	DBR
PALMER	9.00	5,000	9.00	18.00	27.00	36.00	45.00	100%	NO	UNL	Oct-90	FLAT
TERSBURG	25.00	_	28.00	31.00	34.00	37.00	40.00	100%	NO	UNL	Apr-91	FLAT
SAND POINT	12.00	_	12.00	12.00	12.00	12.00	12.00	F1	F1	F1	N/A	F1
SEWARD	26.40	_	42.90	59.40	72.60	85.80	99.00	100%	NO	UNL	Jun 92	DBR
SITKA	24.00	_	24.00	24.00	24.00	24.00	24.00	F	F1	F1	Jul-92	F1
SOLDOTNA	24.18		24.18	24.18	24.18	24.18	24.18	F	F1	F1	Jul-91	F1
VALDEZ	7.75	_	7.75	7.75	7.75	7.75	7.75	F-	F1	F1	Арг-84	F1
WASILLA	16.25	5,000	16.25	32.50	48.75	65.00	81.25	100%	NC	UNI	May-90	DBR
WRANGELL	25.00	_	25.00	25.00	25.00	25.00	25.00	F	F1	F1	Sep -90	F1
BOROUGH OF MATAI	20.61	_	20.61	20.61	20.61	20.61	20.61	F	F1	F1	Mar-92	F1

N/A = Not Available or Incomplete Response.

FLAT = Flat rate structure with only one block.

INV = Inverted rate block structure.

DBR = Declining Block Rate Structure

F1 = Flat rate per household with no volume basis.

UNL = Unlimited water volume basis.

Note — measurements based on cubic feet have been converted into gallons.

HIGHEST BILL LOWEST BILL **\$32.50**

\$42.90 \$59.40 \$77.85 103.80 129.75

AVERAGE OF SAMPLE 18.54

3.90 7.75 7.75 7.75 7.75 20.81 25.31 29.79 34.28 38.76

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Jestions should be directed to Bob McLain, Environmental Consulting Division, (214)401-1222.

our rates have changed or we have misinterpreted your rates, please complete the survey forms enclosed with this mailing.

DAVID M. GRIFFITH & ASSOCIATES, LTD.

11/15/93

STATE OF ALASKA

COMPARATIVE RATE SURVEY - RESIDENTIAL COMBINED WATER & SEWER BILLS

	COMBINED	сом	INED BILLS	S AT VARIO	us cons. 1	EVELS	MINIM	UM BILLS
	MINIMUM	5,000	10,000	15,000	20,000	25,000	BASE	D ON
ENTITY	BILL	Gais.	Gals.	Gals.	Gals.	Gais.	METE	R SIZE?
ANCHORAGE	45.80	45.80	45.80	45.80	45.80	45.80	NO	NO NO
CORDOVA	37.00	37.00	37.00	37.00	37.00	37.00	NO	NO
CRAIG	27.10	27.10	33.10	48.10	63.10	78.10	NO	NO
HAINES	36.99	36.99	36.99	36.99	36.99	36.99	NO	NO
HOMER	22.74	63.39	104.04	144.69	185.34	225.99	YES	NO
JUNEAU	45.50	47.25	56.00	64.75	73.50	82.25	NO	NO
KENAI	32.00	32.00	32.00	32.00	32.00	32.00	NO	NO
KETCHIKAN	44.95	44.95	44.95	44.95	44.95	44.95	NO	NO
KODIAK	45.75	45.75	45.75	45.75	45.75	45.75	NO	NO
NORTH POLE	7.80	7.80	42.30	76.80	111.30	145.80	NO	NO
PALMER	24.75	24.75	40.50	56.25	72.00	87.75	YES	NO
PETERSBURG	42.03	45.03	59.31	76.41	93.51	110.61	YES	YES
SAND POINT	27.00	27.00	27.00	27.00	27.00	27.00	NO	NO
SEWARD	48.40	78.65	108.90	135.85	162.80	189.75	YES	YES
SITKA	36.00	36.00	36.00	36.00	36.00	36.00	NO	NO
SOLDOTNA	39.60	39.60	39.60	39.60	39.60	39.60	NO	NO
VALDEZ	16.25	16.25	16.25	16.25	16.25	16.25	NO	NO
WASILLA	31.25	31.25	62.50	93.75	125.00	156.25	NO	NO
WRANGELL	38.75	38.75	38.75	38.75	38.75	38.75	NO	NO
BOROUGH OF MATANUS	39.29	39.29	39.29	39.29	39.29	39.29	YES	NO

N/A = Not Available or Incomplete Response.

Note - measurements based on cubic feet have been converted into gallons.

HIGHEST BILL	\$48.40	\$78.65	\$108.90	\$144.69	\$185.34	\$225.99
LOWEST BILL	7.80	7.80	16.25	16.25	16.25	16.25
AVERAGE OF SAMPLE	34.45	38.23	47.30	56.80	66.30	75.79

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vey questions should be directed to Bob McLain, Environmental Consulting Division, (214)401—1222. our rates have changed or we have misinterpreted your rates, please complete the survey forms enclosed with this mailing.

DAVID M. GRIFFITH & ASSOCIATES, LID. RESIDENTIAL WATER & SEWER RATE SURVEY UPDATE FORM

RESIDENTIAL WATER &	OLITER DATE OFFICE OFFICE
 Name/Title/Phone/Address of person completing survey: (or attach business card) 	. e.'
NAME	
CITY NAME	PHONE
MAILING ADDRESS	
O 16 years municipality dans not movide water and/or course	1
If your municipality does not provide water and/or sewer service please indicate who does as follows:	WATER SEWER
ENTITY NAMI	E
CONTACT PERSON	
PHONE(999-999-9999)
MAILING ADDRESS	s
CITY/STATE/ZIPCODE	E
3. Date of last change in rates(MM/DD/YY)	
4. Do your rates vary from season to season (circle one)	Yes No Yes No
5. Current Number of connections?	
6. Annual gallons or cu.ft. billed? (circle one)	Gals or Cu. Ft. Gals or Cu. Ft.
7. Does your utility provide service to any other utilities?(Yes/No	
(If so, please list entities on sheet of paper and return with this su	urvey.)
 What type of rate structure do you have? (F=Flat, I=Inverted, D=Declining Block note - see example sh 	ieet)
9. Main source of water supply — (surface or groundwater?) 10. Level of Wastewater Treatment (check one)	Primary Secondary Teriarity
	,
11 Current O&M Budget\$\$)	And the state of t
urrent Annual Debt Service\$\$	
13. Number of full—time utility employees	
14. Miles of mains and/or collectors	
15. Please fill out rate sheet below for the residential water rates	- see example sheet on back for examples.
Water Minimum bill \$ which includes gallons o	or cu.ft. (varys by meter size? Yes/No??)
Billing cycle? Annual, Quarterly, Bi-Monthly, Monthly?	
From(Gals or Cu.ft.) to(Gals or Cu.ft.)	per 1,000 gallons or 1,000 cu.ft.
From(Gals or Cu.ft.) to(Gals or Cu.ft.)	
From(Gals or Cu.ft.) to(Gals or Cu.ft.) From(Gals or Cu.ft.) to(Gals or Cu.ft.)	per 1,000 gallons or 1,000 cu.ft.
	per 1,000 gallons or 1,000 cu.ft. per 1,000 gallons or 1,000 cu.ft.
16. Please fill out rate sheet below for the residential sewer rates	- see example sheet for examples.
Sewer Minimum bill \$ which includes gallons of	or cu.ft. (varys by meter size? Yes/No??)
Rilling cycle? Annual Quarterly Ri-Monthly Monthly 2	le ree sewer hill canned at a certain usage level/V/N\2
Billing cycle? Annual, Quarterly, Bi-Monthly, Monthly? Is the sewer bill sewer usage based on water usage?	If so, then indicate usage level cap
	Winter Average Usage Cap(Y/N)?
From(Gals or Cu.ft.) to(Gals or Cu.ft.)	per 1,000 gallons or 1,000 cu.ft.
(Cais of Cu.t.) to (Cais of Cu.t.)	
From(Gals or Cu.ft.) to(Gals or Cu.ft.)	per 1,000 gallons or 1,000 cu.ft.
From(Gals or Cu.ft.) to(Gals or Cu.ft.) From(Gals or Cu.ft.) to(Gals or Cu.ft.)	per 1,000 gallons or 1,000 cu.ft. per 1,000 gallons or 1,000 cu.ft.
From(Gals or Cu.ft.) to(Gals or Cu.ft.)	per 1,000 gallons or 1,000 cu.ft. per 1,000 gallons or 1,000 cu.ft. per 1,000 gallons or 1,000 cu.ft.

DAVID M. GRIFFITH & ASSOCIATES, LTD. RESIDENTIAL WATER & SEWER RATE SURVEY (ILLUSTRATIVE EXAMPLES OF DIFFERENT RATE STRUCTURES)

The following examples are provided for illustrative purposes to: assist you to determine if you have a flat, inverted, or declining block rate structures

Example of Flat Rate Structure:

Over

100,000

From		То		Rate	Monthly Usage	S Bill
0		2,000	Gallons	\$7.50 Minimum Bill	5,000 Gallons	\$ 15.00
Over	-	2,000	Gallons	\$2.50/1,000 Gallons	10,000 Gallons	\$ 27.50
					15,000 Gallons	\$ 40.00
				*	20,000 Gallons	\$ 52.50
					25,000 Gallons	\$ 65.00
Example	of In	verted Rat	e Structur	<u>e</u> :		
From		<u>To</u>		Rate	Monthly Usage	\$Bill
0	-	2,000	Gallons	\$7.50 Minimum Bill	5,000 Gallons	\$ 10.50
2,001	-	5,000	Gallons	\$1.00/1,000 Gallons	10,000 Gallons	\$ 16.75
5,001	-	10,000	Gallons	\$1.25/1,000 Gallons	15,000 Gallons	\$ 24.25
10,001	-	20,000	Gallons	\$1.50/1,000 Gallons	20,000 Gallons	\$ 31.75
20,001	-	25,000	Gallons	\$1.75/1,000 Gallons	25,000 Gallons	\$ 40.50
25,001	-	50,000	Gallons	\$2.00/1,000 Gallons	30,000 Gallons	\$ 50.50
50,000	-	100,000	Gallons	\$2.25/1,000 Gallons		
Over		100,000	Gallons	\$2.50/1,000 Gallons		
Example	of De	clining Blo	ock Rate S	tructure:		
From		<u>To</u>		Rate	Monthly Usage	\$Bill
0	-	2,000	Gallons	\$7.50 Minimum Bill	5,000 Gallons	\$ 15.00
2,001	. •	5,000	Gallons	\$2.50/1,000 Gallons	10,000 Gallons	\$ 26.25
5,001	-	10,000	Gallons	\$2.25/1,000 Gallons	15,000 Gallons	\$ 36.25
10,001	•	20,000	Gallons	\$2.00/1,000 Gallons	20,000 Gallons	\$ 46.25
20,001	-	25,000	Gallons	\$1.75/1,000 Gallons	25,000 Gallons	\$ 55.00
25,001	-	50,000	Gallons	\$1.50/1,000 Gallons	30,000 Gallons	\$ 62.50
50,000	. •	100,000	Gallons	\$1.25/1,000 Gallons		

Gallons \$1.00/1,000 Gallons



1130 East Missouri Avenue • Suite 550 • Phoenix, Arizona 85014 • 602-277-2330 • Fax 602-279-7174

RECEIVED

November 26, 1993

DEC 2 8 1993

City of Wasilla, Alaska

Mr. John Stein, City Manager CITY OF WASILLA 290 E. Herning Ave. Wasilla AK 99687

Dear Mr. Stein:

For your use, enclosed you will find your copy of the first annual David M. Griffith & Associates, LTD.(DMG) Comparative Water & Sewer Rate Survey, which is comprised of water & sewer bills at various consumption levels for municipalities in your state.

We would like to thank you for your overwhelming response! Evidently this is an area of tremendous interest, since the cost of water supply and wastewater treatment has increasingly come under the scrutiny of ratepayers, bondholders, and other outside parties.

We hope the survey will be helpful to you and your staff. Because some of the survey responses came in after the publishing deadline, or were incomplete, a few entities are not included in this year's survey.

Your ordinance will be kept on file, since we are planning to publish the survey annually. Future updates will include more analysis and information which we hope will be even more useful for you and your staff.

We ask that you please return the enclosed postcard indicating your interest in receiving this survey annually, and what month of the year would best meet your needs. Please give us any ideas which you would like to see incorporated in future updates. Additionally, if your rates have changed in the last twelve months or if your utility was not included in the survey and you wish to be included in 1994, let us know by completing the enclosed survey form.

Finally, please take a few moments to review the enclosed brochure describing ways in which DMG can assist local governments with their water, sewer, electric, solid waste, and stormwater utility rate development and financing strategies.

If you have any questions regarding the survey or wish additional information in any other area, contact me at (602)277-2330, or Bob McLain at (214)401-1222. David M. Griffith & Associates, LTD. appreciates the opportunity to provide this service to you.

Sincerely,

Joel Nolan Vice President

Prepared by: Administration



CITY OF WASILLA

290 E. HERNING AVE. WASILLA, ALASKA 99687 PHONE: (907) 373-9050 FAX: (907) 373-0788

ORDINANCE SERIAL NO. 90-06

AN ORDINANCE OF THE CITY OF WASILIA, ALASKA FIXING SEWER RATES.

BE IT ORDAINED AND ENACTED BY THE CITY OF WASILLA, ALASKA AS FOLLOWS:

SECTION I. Classification. This is a non-code ordinance.

SECTION II. Purpose. To establish sewer rates within the Wasilla Sewer Utility Service Area.

SECTION III. Enactment.

- A. City of Wasilla Ordinance No. 86-27 is hereby repealed.
- B. Volume Measurement. Sewer service rates shall be based on the water consumed as measured through a city-owned water meter when a meter is required per Chapter 5.20.055 C, or based upon the average water charge for the customer class when a meter is not required.
- C. Sewer Rates. Sewer service shall be furnished to customers at the rate of \$3.25 per thousand gallons for the first 250,001 gallons. Sewer service rates for water usage in excess of 250,001 gallons per meter shall be \$2.75 per 1,000 gallons. For Class I customers not on the City water system and not having a water meter to measure water consumption, the monthly rate shall be \$22.00.
- D. Minimum Monthly Charge. The minimum monthly service billing shall be \$16.25. (Note: TO BE THE CHARGE FOR 5,000 GALLONS.)
- E. <u>Turn On/Turn Off Fee.</u> The service charge for turn on/turn off shall be at the rate of \$25/hour, with a minimum of one hour billing.
- F. <u>Billing Period</u>. Bills will be rendered one month in advance of services, and are payable in full by the due date stated on the billing. The billing will be based on the prior month's water consumption.
- G. Meter Charge. Class II customers are required to install a meter to measure water usage at their own expense if their source of water is unmetered (5.20.055 C).

The meters are to be furnished by the City at cost + 25%.

- H. Late Payment Charge. A penalty of \$5.00 or eight percent (8%) of the unpaid balance, whichever is greater, shall be charged for late payments.
- I. <u>Service Call Charge.</u> The charge for service calls shall be at the rate of \$25.00 per hour, with a minimum of one hour's billing.
- J. <u>Annual Review.</u> A review of the sewer system charges and fee structure shall be accomplished by Staff with recommendations to the Council in February of each year.

SECTION IV. Effective Date. This ordinance becomes effective June 1, 1990.

SECTION IV. Effective Date. This ordinance becomes effective upon adoption by the Wasilla City Council.

Introduction: 3-28-90 .

Public Hearing: 4-09-90 .

ADOPTED by the Council of the City of Wasilla on this <a href="https://doi.org/10.1001/journal.com/linearing/news/apacity/apac

JOHN C. STEIN, Mayor

ATTEST:

Erling P. Nelson, CMC

City Clerk/

(SEAL)

CHAPTER 5.20

WASILLA SEWER UTILITY

SECTIONS:

5.20.0	010	Definitions
5.20.0	020	Use of Public Sewer Required
5.20.0	030	General Conditions of Construction of Sewer Connections
5.20.0	040	Sewer - Connection Permits
5.20.0	050	Sewer - Connection Fees
5.20.0	055	Sewer - Service Fees
5.20.0	060	Delinquent Accounts - Discontinuance of Service
5.20.0	065	Responsibility for Equipment
5.20.0	070	Sewer - Extensions By Private Developers
5.20.	075	Sewer - Control of Wastewater
5.20.	080	Prohibitions
5.20.	085	Power and Authority of Inspectors
5.20.	090	Violations and Remedies

<u>5.20.010 Definitions.</u> Unless the context specifically indicates otherwise, the meaning of terms used in this chapter shall be as follows:

- A. "City" means the City of Wasilla including the Council, Mayor or authorized employees of the City.
 - B. "Council" means the Council of the City of Wasilla.
- C. "Building Drain" means that part of the lowest horizontal piping of a drainage system which receives the discharge from waste, and other drainage pipes inside the walls of the building and conveys it to the building sewer, beginning immediately outside the building wall.
- D. "Connection Fee" means the fee charged for connection to the system including a proportionate share of the cost for constructing the system plus the actual cost for materials and labor and mark-up in making the connection and other costs as determined by the City.
- E. "Easement" means an acquired legal right for the specific use of land owned by others.
- F. "Electrical Service" means the circuit used exclusively for the pumping facilities in the interceptor tank.
- G. "Final Assessment Order" means that order entered by the City pursuant to Section 2.60 of the Wasilla Municipal Code (Special Assessment District).

- H. "Garbage" means the animal and vegetable waste resulting from the handling, preparation, cooking, and serving of food.
- I. "City of Wasilla Sewer System" means that pressure sewer system installed any subsequent extensions thereof by the City of Wasilla.
- J. "Industrial Wastes" means the wastewater from industrial processes, trade, or businesses as distinct from domestic or sanitary wastes.
- K. "Interceptor Tank" means a septic tank like structure which contains facilities for retention and treatment of sewage wastes and is used in conjunction with a container for pumping effluent or a pump.
- L. "Natural Outlet" means any outlet, including storm sewers and combined sewer overflows, into a watercourse, pond, ditch, lake or other body of surface or groundwater.
 - M. "May" means it is permissive.
 - N. "Mayor" means the mayor of the City of Wasilla or his authorized representative.
 - O. "Owner" also includes purchaser under land sale contract.
- P. "Person" means the legal person, including individual, corporation, partnership, trust or any other entity.
- Q. "pH" means the logarithm of the reciprocal of the hydrogen-ion concentration. The concentration is the weight of hydrogen-ions, in grams, per liter of solution. Neutral water for example, has a pH value of 7 and a hydrogen-ion concentration of 10-7.
- R. "Practical Route" means that route determined by the City to be economically feasible.
- S. "Properly Shredded Garbage" means the wastes from the preparation, cooking, and dispensing of food that have been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in the building drain with no particle greater than 1/2 inch (1/27 centimeters) in any dimension.
- T. "Public Sewer" means the Wasilla Sewer System also referred to as System, including interceptor tanks, pumping facilities, service lines, system piping and control panels.
- U. "Sanitary Sewer" means a sewer that carries liquid and water carried wastes from the residences, commercial buildings, industrial plants, and institutions together with minor quantities of ground, storm, and surface waters that are not admitted intentionally.
- V. "Service Fees" means the fees, normally monthly, levied for operation and maintenance of the System.
- W. "Service Lines" means the piping installed on property to connect the interceptor tank serving the structures thereon to the system piping. Unlike a lateral of a main or a main,

service lines are not designed or intended to receive effluent flow from structures other than those structures with wastewater plumbing existing on the property when the lines were installed.

- X. "Sewage" means the spent water of a community. The preferred term is "wastewater".
 - Y. "Sewer" means a pipe or conduit that carries wastewater or drainage water.
 - Z. "Shall" means that it is mandatory.
- AA. "Slug" means any discharge of water or wastewater which in concentration of any given constituent or in quantity of flow shall adversely affect the collection system or performance of the wastewater treatment works.
- AB. "Storm Drain" (or "storm sewer") means a drain or sewer for conveying water, groundwater, subsurface water, or unpolluted water from any source.
- AC. "Suspended Solids" means the total suspended matter that either floats on the surface of, or is in suspension in, water, wastewater, or other liquids, and that is removable by laboratory filtering as prescribed in "Standard Methods for the Examination of Water and Wastewater".
- AD. "System Piping" means the main transmission lines and its laterals which collect wastewater from service lines.
- AE. "Unpolluted Water" means water of quality equal to or better than the effluent criteria in effect or water that would not cause violation of receiving water quality standards and would not be benefitted by discharge to the sanitary sewers and wastewater treatment facilities provided.
 - AF. "WPCF" means Water Pollution Control Federation.
- AG. "Wastewater" means the spent water of a community. From the standpoint of source, it may be a combination of the liquid and water carried wastes from residences, commercial buildings, industrial plants, and institutions.
- AH. "Wastewater Facilities" means the structures, equipment, and processes required to collect, carry away, and treat domestic and industrial wastes and dispose of the effluent. Wastewater facilities include the interceptor tanks, pumping facilities, service lines, system piping and control panels. May be used interchangeably with "Sewer Facilities".
- AI. "Wastewater Treatment Works" means an arrangement of devices and structures for treating wastewater, industrial wastes, and sludge. Sometimes used as synonymous with "waste treatment plant" or "wastewater treatment plant" or "water pollution control plant", or "sewage treatment plant".
- AJ. "Water Course" means a natural or artificial channel for the passage of water either continuously or intermittently.

- AK. "Duplex" means a residential building(s) containing two (2) separate living units. Each living unit shall be as an individual residential sewer customer.
- AL. "Triplex" means a residential building(s) containing three (3) separate living units. Each living unit shall be as an individual residential sewer customer. (Ord. 89-01 §3 1989)

5.20.020 Use of Public Sewer Required.

- A. The wastewater plumbing of any structure constructed after March 1, 1989 must be connected to the City public sewer system in accordance with the provisions of this chapter unless the structure is more than one hundred fifty (150) feet from any portion of the sewer system as measured in a straight line from the sewer system piping to the nearest exterior lot line on which the structure is located.
- B. Where the City public sewer system is not available under the provisions of paragraph A, above, the building sewer shall be connected to a private wastewater disposal system complying with the subsurface sewage disposal provisions of the State of Alaska, Department of Environmental Conservation. (Ord. 89-01 §3 1989)

5.20.030 General Conditions of Construction of Sewer Connections.

- A. All materials used in the construction of a Sewer Connection from and including the interceptor tank to the sewer lateral or main line shall be the property of the City whether purchased and/or installed by the applicant or by the City.
- B. The materials and workmanship to connect the wastewater plumbing of any structure to the City public sewer system must meet or exceed those prescribed in the City (Wasilla Standard Specifications for sewer construction and shall be inspected by a City representative.
- C. A separate and independent electrical circuit shall be provided for each interceptor tank. The applicant is responsible to obtain any required electrical inspection certification.
- D. Whenever possible, the building sewer gravity line shall be brought to the building at an elevation below the basement floor. In buildings where any building drain is too low to permit gravity flow to the interceptor tank, sanitary sewage carried by such building drain shall be lifted by a means approved by the City and discharged to the building sewer.
- E. Plumbing within new structures shall be oriented as to allow the building sewer to stem from the side closest to the public sewer system piping, unless otherwise approved by the City.
- F. Electricity necessary to operate the effluent pump and service line heat trace shall be paid by the owner or sewer customer.
- G. Upon sale of a subdivided or partitioned parcel with a structure using an interceptor tank common to another structure which was not included in the sale or located on the parcel after division, another interceptor tank, control panel and proper piping shall be installed so that each parcel has independent sewage facilities.

H. The City shall not be responsible for the operation or maintenance of any portion of the wastewater system inside the structure or prior to the interceptor tank. (Ord. 89-01 §3 1989)

5.20.040 Sewer - Connection Permits.

A. A permit is required for any connection to the City's sewer system.

There shall be two classes of sewer connection permits:

- 1. Class I. Includes residential structures up to 12 bedrooms and all other structures designed to serve less than 25 persons per day.
- 2. Class II. Includes residential structures with more than 12 bedrooms and all other structures designed to serve more than 25 persons per day.
- B. The owner(s) or his authorized agent shall make application for a sewer connection permit on forms provided by the City. Applicants for all Class II connection permits and for any facility that will exceed a design flow of 2,000 gal/day must obtain written approval of plans and specifications from the Alaska Department of Environmental Conservation.
- C. Each applicant for a sewer connection permit shall submit copies of any plans, specifications or other information considered pertinent in the judgement of the Mayor or his representative. The owner(s) shall provide a properly executed easement approved by the City which permits access by the City employees to the applicants property for the purposes of installing, constructing, maintaining and inspecting service lines, interceptor tanks and control panels serving the property.
- D. The property owner or purchaser under a land sales agreement is responsible for the connection construction and all costs and expenses for labor and material incidental to the installation and connection of the portion of the wastewater disposal facility located within the property line. (Ord. 89-01 §3 1989)

5.20.050 Sewer - Connection Fees.

- A. Applicants for permits to connect the wastewater plumbing of a structure to the City sewer system shall pay a connection fee. The connection fee shall consist of one or more of the following elements, as applicable.
 - 1. The cost of the City man-hours estimated necessary to inspect the materials and construction of the connection.
 - 2. The cost of the City man-hours estimated necessary to perform the main line tap and/or connect the service line to the interceptor tank or vault.
 - 3. The cost to the City, plus 25%, of any materials furnished by the City that are used in the performance of 1 and 2 above.
 - 4. At the request of the owner, providing adequate resources are available, the City

may sell to the owner materials that are necessary for the connection. The price to the owner will be the City's cost plus 25%. The cost of materials purchased as described herein shall be a part of the connection permit fee.

- 5. At the request of the owner, providing resources are available, the City may provide assistance in the form of labor, technical assistance, or operating specialized tools during the construction. The City shall not be the primary contractor or provider of labor for sewer connections unless specifically authorized by the City Council. Any labor performed under this section shall be charged at the City cost of the labor plus 25%. Estimated charges for labor, if any, shall be included in the connection permit fee.
- B. The owners of property which has not been assessed for off-site costs of sewer construction who wish to connect to the sewer system shall have included in their connection permit fee an amount equal to an assessment which shall be calculated in the same manner as the off-site assessment for Sewer District 83-S-1 or as changed by Council resolution. The portion of the permit fee determined as described herein may be prepaid or paid in installments with interest in accordance with Council resolution.
- C. The estimated connection permit fee shall be paid in full, unless deferred in part under paragraph B above, prior to issuance of a permit to connect to the sewer system. Should the actual cost exceed the estimated and amount paid, the applicant shall pay the amount due before receiving sewer service. Any amount paid in excess of the actual cost shall be refunded to the applicant. (Ord. 89-01 §3 1989)

5.20.055 Sewer - Service Fees.

- A. Service fees shall be established by Council ordinance and charged to owners or occupants of structures from which wastewater is discharged into the sewer system. The Council, by ordinance, shall fix service fee due dates, penalties, interest and service call charges.
- B. Applicants for sewer service shall apply for such service on forms provided by the City. A deposit equivalent to the actual or estimated monthly service fee shall be made with the City Finance Department prior to receiving sewer service. The deposit is not a payment on account.
 - 1. In the event sewer service is discontinued, the deposit may he applied to the closing bill. Any amount in excess of the closing bill will be refunded to the depositor. The deposit will be refunded if, after twelve (12) continuous months the customer has no record of late payments. Five percent (5%) interest shall be paid on deposits.
 - 2. The deposit and accrued interest shall be forfeited if the customers account becomes delinquent and service is discontinued, and the full amount shall be applied to the unpaid balance. Sewer service will not be restored to a customer with a delinquent account until all sewer service fees, charges and penalties due the City from the customer have been paid and the deposit replaced.
- C. Sewer service rates shall be based on water usage in the structure connected to the sewer system as measured through a City owned water meter or, based upon an average water

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usage for the type of customer if a water meter is not required.

- 1. Residential structures with less than four (4) dwelling units are not required to have a water meter. Each unmetered dwelling unit occupant shall be considered a separate customer and shall pay a service fee based on 5,000 gallons per month of water usage or, a minimum monthly fee established by Council.
- 2. Residential structures of four (4) or more dwelling units, all commercial structures and, any facility expected to exceed a design flow of 2,000 gal/day shall install a City approved water meter prior to receiving sewer service.
- D. The payment of service fees as determined herein shall entitle the customer to the following maintenance services:
 - 1. Repair or replacement of all system components from the interceptor tank to the main system piping, inclusive, providing the replacement or repair is not a result of owner's negligence or action in violation of this Chapter.
 - 2. The cleaning or emptying of the interceptor tank each:
 - a. Three years for Class I customers.
 - b. Two years for Class II customers.
 - c. One year for Class II customers with a design flow or actual flow in excess of 60,000 gallons per month. (Ord. 89-01 §3 1989)
- <u>5.20.060 Delinquent Accounts Discontinuance of Service</u>. The City may send a Notice of Account Delinquency to each delinquent customer as soon as possible after the due date. Unpaid accounts become delinquent the day following the due date.
 - 1. On or after ten (10) days after an account becomes delinquent, a turn off notice will be delivered to the customer. The notice shall state a date on or after which the sewer service will be turned off if the delinquent account is not paid in full prior thereto. Such date will not be less than two (2) working days after the date of notice if the notice is delivered to the address receiving sewer service or not less than seven (7) days if the notice is mailed to the address of record of the customer. The delivery to the premises served or mailing to the address on record of the customer shall be considered a delivery to the customer.
 - 2. On or after the turn off date, any agent of the City may discontinue the sewer service by interrupting the electrical or mechanical mechanisms. A sewer turn off notice shall be placed in a prominent place on the sewer electrical control panel or on the property and notification made to the nearest office of the Alaska Department of Environmental Conservation.
 - 3. The City may refuse to provide sewer service and may discontinue sewer service

to any premises without prior notice where plumbing facilities or equipment in the system or discharges into the sewer system are dangerous, unsafe, or not in conformity with the provisions of this Chapter.

- 4. Each customer shall give the City written notice of his intention to discontinue sewer service at least two (2) working days prior to the desired date of sewer service discontinuance; otherwise, the customer shall be responsible for sewer service charges until the City receives notice of such discontinuance. Upon discontinuance of sewer service, a bill shall be computed and such bill shall be payable, immediately. In no case will the bill be less than the monthly minimum specified in the current sewer rate schedule. (Ord. 89-01 §3 1989: Ord. 92-15 §3 1992)
- 5.20.065 Responsibility for Equipment. The City shall not be liable for any loss or damage of any nature whatsoever caused by any defect in the sewer system or the customers plumbing or equipment, nor shall the City be liable for loss or damage due to interruption of service, nor shall the City be responsible for damages caused by freezing of the service lines as a result of the customer's failure to activate the service line heat trace. (Ord. 89-01 §3 1989)

5.20.070 Sewer - Extensions by Private Developers.

- A. A developer considering extensions to the Wasilla Sewer System shall retain an Engineer who is registered as a professional engineer under the laws of the State of Alaska to do preliminary design and cost estimates. The developer shall then either:
 - 1. Petition the City to form a Special Assessment Area enabling the City to construct the improvements or;
 - 2. Determine to construct the improvements at developers cost as set forth in this section.
- B. After conducting public hearings (with notice given to interested property owners to be benefitted by the proposed extension) and upon approval of Council, sewer laterals, interceptors or trunks may be extended by private developers. Any such extensions shall be performed in accordance with City specifications and standards. Extensions or improvements will not be allowed or accepted unless the plans have been approved by the City and by the Alaska Department of Environmental Conservation, and the developer has signed and met the terms and conditions of a sewer system extension agreement with the City. The design standards and conditions shall become a part of the extension agreement and may be altered from time to time as the Council deems necessary.

C. Extension Agreement Fee:

- 1. A developer shall pay the City's actual cost associated with the work the developer performs under a sewer extension agreement. The City's cost shall include administration of the Sewer System Extension Agreement, plan review and approval, surveillance, inspection, and administrative overhead.
- 2. Prior to City approval of a sewer main extension under this chapter, the developed

shall pay a deposit toward the City's costs of the project. The amount due shall be based upon the estimated cost of the improvements to be constructed under the sewer extension agreement as follows:

Estimated Cost Deposit Due

\$34,000 or less Over \$34,000 up to \$50,000 Over \$50,000 \$1,000.00 3% of Estimated Cost \$15,000.00

3. If at any time the City finds its costs exceed the total deposit received, the City may periodically bill and receive payment from the developer for those actual incurred costs in excess of the amount of deposits. After the City finds the improvements meet municipal specifications, it shall determine its costs to date. If the costs exceed the total deposits received, the developer shall pay the balance to the City prior to final acceptance of the improvements. Deposits paid under this section shall be deposited in a separate account, dispersed only as authorized by this section and shall not bear interest.

D. Payment-in-Lieu of Off-site Assessment Charges.

- 1. The developer shall pay the City a payment in lieu of assessment district off-site assessments for the developers' benefit of sewer mains and treatment facilities. The payment amount shall be computed in a manner identical to the off-site assessment computations for Sewer Assessment District 83-S-1, or as changed by resolution of the City Council.
- 2. If the City requires the developer to oversize the sewer system, the City shall credit the difference between the cost of 8" pipe and fittings, or any larger size actually required to serve the property as determined by the City, and the cost of any larger oversized pipe required by the City. The credit may be applied against the payment required in (D)(1) above.
- 3. All payments in lieu of assessments payable by the developer are a lien upon the property improved. The City shall release this lien upon the property, or any lot or parcel within the property, when the charges for the property, or the charges for any lot or parcel have been paid.
- E. Sewer Service to Other Properties. After the City accepts a sewer system extension, other benefitted properties may request a permit to connect to the system. When the City receives a request for sewer connection from the owner of a benefitted property, the person so requesting shall be responsible for obtaining the necessary permits, paying fees and performing actions for sewer connection permits as required elsewhere in this Chapter. In addition, if the request is to connect to the sewer system within three (3) years of the date of the City acceptance of the system extension from a developer, the requester shall be responsible for the payment of a pro-rata share of the developers cost of constructing the sewer system extension. The developers cost will be determined by the costs submitted by the developer and approved by the City. The pro-rata share will be determined on a cost per square foot basis. The square footage will be determined by computing the square footage of the lot or parcel that is within 150 feet of the property line that is adjacent to the easement or right-of-way in which the system piping

is constructed, and then pro-rated among the square footage, computed in the same manner, of all of the property benefitted by the project, or as otherwise stated in the developers extension agreement. The City may act in the role of collecting and forwarding the monies received from the connecting property owner to be reimbursed to the developer. However, the City accepts no responsibility or liability in the event of nonpayment by the connecting property owner of the amounts to be reimbursed to the developer and may only agree to act in the limited role of collecting agent of the money to be forwarded to the developer. Any and all enforcement of payment of such amounts to be reimbursed shall be the right and responsibility of the developer. The City shall also collect, as part of the connection fee, a payment in lieu of off-site assessment. Such fee shall be computed as described in Section 5.20.050. (Ord. 89-01 §3 1989)

5.20.075 Sewer; Control of Wastewater.

- A. No person(s) other than authorized agents of the City, shall uncover, make any connections with or opening into, use, alter, or disturb the City public sewer or appurtenance thereof without first obtaining a written permit from the City.
- B. No person(s) shall discharge or cause to be discharged any waters such as stormwater, groundwater, roof runoff, subsurface drainage, or cooling water to any sewer.
- C. No person(s) shall discharge or cause to be discharged any of the following described waters or wastes to any public sewers:
 - 1. Any gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid, or gas;
 - 2. Any waters containing toxic or poisonous solids, liquids, or gases in sufficient concentration, either singly or by interaction with other wastes, to injure or interfere with any waste treatment process, constitute a hazard to humans or animals, create a public nuisance, or create any hazard in the receiving waters of the wastewater facilities;
 - 3. Any waters or wastes having a pH lower than 5.5 or greater than 9.5 or having any other corrosive property capable of causing damage or hazard to structures, equipment and personnel of the wastewater facilities;
 - 4. Solid or viscous substances in quantities or of such size capable of causing obstruction to flow in sewers, or other interference with the proper operation of the wastewater facilities such as, but not limited to, ashes, bones, cinders, sand, mud, straw, shavings, metal, glass, rags, leathers, tar, plastics, wood, un-ground garbage, whole blood, paunch manure, hair and fleshing, entrails and paper dishes, cups, milk containers, etc. either whole or ground by garbage grinders;
 - 5. Ceramic dusts or particles or other abrasive substances; and
 - 6. Any water received through infiltration or inflow.
- D. The following described substances, materials, waters, or waste shall be limited in discharges to the system to concentrations or quantities which will not harm either the sewers.

wastewater treatment process or equipment, will not have an adverse effect on the receiving ground, or will not otherwise endanger lives, limb, public property, or constitute a nuisance. The City may set limitations lower than the limitations established in the regulations below if in its opinion such more severe limitations are necessary to meet the above objectives. In forming an opinion as to the acceptability, the City will give consideration to such factors as the quantity of subject waste in relation to flows and velocities in the sewers, materials of construction of the sewers, the wastewater treatment process employed, capacity of the wastewater treatment plant, degree of treatability of the waste in the wastewater treatment plant, and other pertinent factors. The limitations or restrictions on materials or characteristics of waste or wastewater discharged to the sanitary sewer which shall not be violated without approval of the City are as follows:

- 1. Wastewater having a temperature higher than 150 degrees Fahrenheit (65 degrees Celsius);
- 2. Wastewater containing more than 15 milligrams per liter of petroleum oil, non-biodegradable cutting oils, or product of mineral oil origin;
- 3. Wastewater from industrial plants containing floatable oils, fat, or grease;
- 4. Any garbage that has not been properly shredded (see definitions). Garbage grinders are discouraged;
- 5. Any waters or wastes containing iron, chromium, copper, zinc, and similar objectionable or toxic substances to such degree that any such material received in the composite wastewater at the wastewater treatment works exceeds the limits established by the City for such materials;
- 6. Any waters or wastes containing odor-producing substances exceeding limits which may be established by the City;
- 7. Any radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the City in compliance with applicable state or federal regulations;
- 8. Quantities of flow, concentrations, or both which constitute a "sludge" as defined herein;
- 9. Waters or wastes containing substances which are not amenable to treatment or reduction by the wastewater treatment processes employed, or are amenable to treatment only to such degree that the wastewater treatment plant effluent cannot meet the requirements of other agencies having jurisdiction over discharge to the receiving waters; and
- 10. Any water or wastes which, by interaction with other water or wastes in the public sewer system, release obnoxious gases, form suspended solids which interfere with the collection system, or create a condition deleterious to structures and treatment processes.
- E. If any waters or wastes are discharged or are proposed to be discharged to the public sewers, which waters contain the substances or possess the characteristics enumerated in

paragraph 5(C), and which in the judgment of the City, may have a deleterious effect upon the wastewater facilities, processes, equipment, or receiving waters, or which otherwise create a hazard to life or constitute a public nuisance, the City may:

- 1. Reject the wastes;
- 2. Require pretreatment to an acceptable condition for discharge to the public sewers;
- 3. Require control over the quantities and rates of discharge; and/or
- 4. Require payment to cover added cost of handling and treating the wastes not covered by existing fees.

When considering the above alternatives, the City shall give consideration to the economic impact of each alternative on the discharger. If the City permits the pretreatment or equalization of waste flows, the design and installation of the plants and equipment shall be subject to the review and approval of the City.

- F. Grease, oil and sand interceptors shall be provided when, in the opinion of the City, they are necessary for the proper handling of liquid wastes containing floatable grease in excessive amounts as specified in paragraph 4(C) or any flammable wastes, sand, or other harmful ingredients. All interceptors shall be of a type and capacity approved by the City, and shall be located as to be readily and easily accessible for cleaning and inspection. In the maintaining of these interceptors the owner(s) shall be responsible for the proper removal and disposal by appropriate means of the captured material and shall maintain records of the dates, and means of disposal which are subject to review by the City. Any removal and hauling of the collected materials not performed by owner(s) personnel must be performed by currently license waste disposal firms.
- G. Where pretreatment or flow-equalizing facilities are provided or required for any waters or wastes, they shall be maintained continuously in satisfactory and effective operation by the owner at his expense.
- H. The City may require an applicant or person receiving sewer service to provide information needed to determine compliance with this Chapter. These requirements may include:
 - 1. Wastewaters discharge average and peak rate and volume over a specified time period;
 - 2. Chemical and biological analysis of wastewater sampled at specified times, locations, durations and frequencies;
 - 3. Information on raw materials, processes, and products affecting wastewater volume and quality;
 - 4. Quantity and disposition of specific liquid, sludge, oil, solvent, or other materials important to control sewer use;
 - 5. A plot plan of sewers on the user's property showing sewer and pretreatment

facilities location;

- 6. Details of wastewater pretreatment facilities;
- 7. Details of system to prevent and control the losses of materials through spills to the public sewer; and
- 8. Water usage average and peak usage over a specified period of time.
- I. All measurements, tests, and analysis of the characteristics of waters and wastes to which reference is made in this Chapter shall be determined in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater" published by the APHA. Sampling methods, location, times, durations and frequencies are to be determined on an individual basis subject to approval by the City.
- J. No statement contained in Section 5.20.070 shall be construed as preventing any special agreement or arrangement between the City and any industrial concern whereby an industrial waste of unusual strength or character may be accepted by the City for treatment. The prior approval of ADEC is required for acceptance of any industrial waste. (Ord. 89-01 §3 1989)

5.20.080 Prohibitions.

- A. No person shall maliciously, willfully, or negligently break, damage, destroy, uncover, deface, or tamper with any structure, appurtenances or equipment which is a part of the wastewater facilities or, drive a motor vehicle over any interceptor tank without permission from the City.
- B. No person shall excavate within any area subject to a recorded easement granting the City access and installation rights for wastewater facilities without first obtaining a permit to do so from the City. (Ord. 89-01 §3 1989)

5.20.085 Power and Authority of Inspectors.

- A. The City, including other duly authorized employees or organizations of the City are authorized to obtain information concerning industrial processes which have a direct bearing on the kind and source of discharge to the wastewater collection system. The industry may withhold information considered confidential. The industry must establish that the revelation to the public of the information in question might result in an advantage to competitors.
- B. The City and other duly authorized agents and employees of the City bearing proper credentials and identification shall be permitted to enter all private properties through which the City holds a duly negotiated easement for the purposes of inspection, observation, measurement, sampling, repair, and maintenance of any portion of the Wastewater facilities lying within said easement. All entry and subsequent work, if any, on said easement, shall be done in full accordance with the terms of the duly negotiated easement pertaining to the private property involved. (Ord. 89-01 §3 1989)

5.20.090 Violations and Remedies.

A. If any person shall construct a public sewer, private sewer or building sewer in

violation of this chapter, the Mayor may issue an order to such person to stop work in progress which is not then in compliance with this chapter or the Mayor may issue an order to correct work which has been performed. Such person shall forthwith take such action as may be necessary to comply with such order and with this chapter, all at the expense of such person.

B. Discontinuance of Service

- 1. The Mayor may order the owner of any property from which discharges prohibited by this chapter are entering any sewer to correct such condition. The Mayor shall first give written notice of such prohibited discharge to the person, and only if such person fails to correct such condition within thirty (30) days after receipt of such notice, the Mayor may enter upon such property and remove or close sewer connections as hereinafter provided.
- 2. Notwithstanding the provisions of Section 5.20.090(B)(1) above, at the Mayor's discretion sewer service to any property may be discontinued immediately and without notice, upon determination that there is being discharged from such property any material deemed to be dangerous, injurious to treatment process or hazardous to any person, structure or treatment process. The Mayor shall have the right to enter upon the person's property to remove or close sewer connections as hereinafter provided.
- C. Sewer service shall not be restored until all charges, including the expense of removal, closing, and restoration, and any other costs or attorney's fees shall have been paid and the cause for discontinuance of service corrected.
- D. Change of ownership or occupancy of premise found delinquent shall not be cause for reducing or eliminating these charges if transfer or change is to a spouse, parent or child the delinquent customer.
- E. Any person found to be in violation of any provision of this chapter shall be served by the City with written notice stating the nature of the violation and providing a reasonable time limit for the satisfactory correction thereof. The offender shall, within the period of time stated in such notice, permanently cease all violations.
 - 1. Any person who shall continue any violation beyond the time limit provided for in this chapter or the time limit provided in the written notice required by this Section shall be guilty of an infraction, and on conviction thereof, shall be fined in an amount not exceeding one hundred dollars (\$100.00) for each violation. Each day in which any violation shall continue shall be deemed a separate offense.
 - 2. Civil Cause of Action. The City may bring a cause of action against any individual, corporation, partnership, company or other entity for violation of any provision of this Chapter, and the Superior Court of the State of Alaska shall have jurisdiction in the matters under the provisions of this Chapter.
 - 3. Injunction. In any suit brought under any provision of this chapter, the court may enjoin the party subject to suit from further violation of this chapter.
 - 4. Damages. In any suit brought under the provisions of this Chapter in which it is

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determined that the party subject to suit is in violation of any section of this Chapter, the party subject to suit shall be liable to the City for its damages including attorney fees and costs of the action. (Ord. 89-01 §3 1989)



Area Code (907)

Administration Ph: 373-9055

Fx: 373-9085

Clerks Office

Ph: 373-9065

Fx: 373-9085

Finance Ph: 373-9070 Fx: 373-9085

Library Ph: 376-5913

Museum Ph: 373-9071

Planning Ph: 373-9074

Fx: 376-2347

Fx: 373-9072

Fx: 373-9085

Ph: 373-9077 Fx: 373-9051

Public Works Ph: 373-9095

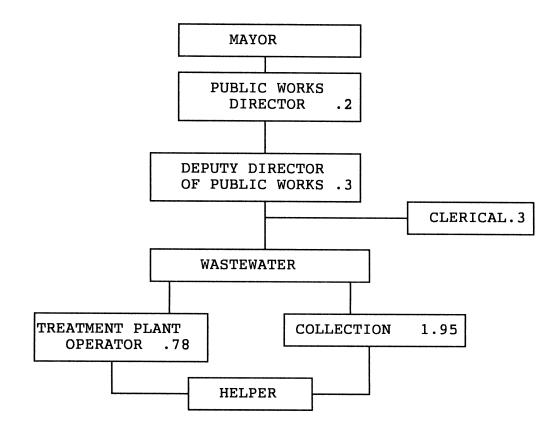
Ph:_

Fx: _

CITY OF WASILLA

290 E. HERNING AVE. WASILLA, ALASKA 99654-7091

SEWER UTILITY ORGANIZATIONAL CHART 2/23/95



Daily operation checks Fx: 373-9085

Process control checks Maintenance: Blowers Pumps Valving Drying beds Ozonators Grounds Lagoon air line cleaning Testing Sampling: Monitoring wells Lagoons Permit compliance

Septic pumping Valve vault inspection Susitna pump station On site system repair and trouble shooting Equipment maintenance Inspect new installations Sewer alarm response Pump vault cleaning Thawing Electrical repair

