

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS(Include Facility name/Location if different)

MAJOR  
(SUB 01)  
F - FINAL  
EFFLUENT

Form Approved.  
OMB No. 2040-0004  
Approval Expires 05-31-98

\*\*\* NO DISCHARGE

NOTE: Read instructions before completing this form.

**NAME:** JUNEAU, CITY AND BOROUGH OF  
**ADDRESS:** MENDENHALL TREATMENT PLANT  
155 SOUTH SEWARD,  
JUNEAU, ALASKA 99801  
**FACILITY:** MENDENHALL VALLEY SERVICE AREA  
**LOCATION:** JUNEAU, ALASKA 99801  
**ATT:** Scott Jeffers WW Utilities Superintendent

**AK-002295-1**  
PERMIT NUMBER

**001 A**  
DISCHARGE NUMBER

MONITORING PERIOD						
YR	MO	DAY	TO	YEAR	MO	DAY
2006	9	1		2006	9	30

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG, CENTIGRADE 00010 1 0 0	MEASUREMENT	*****	*****	****	*****	14.7	15.3	(04)	0		
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MAX	DEG. C		5/WEEK DAYS	GRAB
BOD, 5-DAY (20 DEG. C) 00310 G 0 0	MEASUREMENT	4914	6277	(26)	*****	206	256	(19)	0		
RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DAY	*****	REPORT MO AVG	REPORT DAILY MAX	MG/L		2/MONTH	COMP 24
BOD, 5-DAY (20 DEG. C) 00310 W 0 0	MEASUREMENT	250	*****	(26)	*****	10.2	*****	(19)	0		
SEE COMMENTS BELOW	PERMIT REQUIREMENT	1839 WKLY AVG	*****	LBS/DAY	*****	45 WKLY AVG	*****	MG/L		2/MONTH	COMP 24
BOD, 5-DAY (20 DEG. C) 00310 1 0 0	MEASUREMENT	232	250	(26)	*****	9.8	10.2	(19)	0		
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1226 MO AVG	2452 DAILY MAX	LBS/DAY	*****	30 MO AVG	60 DAILY MAX	MG/L		2/MONTH	COMP 24
pH	MEASUREMENT	*****	*****	****	6.3	*****	6.5	(12)	0		
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	6.3 MIN.	*****	9.0 MAXIMUM	SU		5/WEEK DAYS	GRAB
ALKALINITY, BICARBONATE as CaCO3 00425 1 0 0	MEASUREMENT	*****	*****	****	*****	139.0	139.0	(19)	0		
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MAX	MG/L		1/MONTH	COMP 24
SOLIDS, TOTAL SUSPENDED 00530 G 0 0	MEASUREMENT	3172	3384	(26)	*****	134	138	(19)	0		
RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DAY	*****	REPORT MO AVG	REPORT DAILY MAX	MG/L		2/MONTH	COMP 24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**Scott Jeffers**  
Wastewater Utilities Superintendent

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with the system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*Scott Jeffers*  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
907 AREA CODE 586-0393

PHONE NUMBER DATE  
2006 YEAR 10 MO 9 DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
\* Concerning violations-please see attached. The reporting period was from 09/03/2006 through 09/30/2006.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
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**ATT:** Scott Jeffers WW Utilities Superintendent

MONITORING PERIOD						
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2006	9	1		2006	9	30

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 G 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	1839 WKLY AVG	*****	LBS/DAY (26)	*****	7.0	*****	MG/L (19)	0	2/MONTH	COMP 24
	SAMPLE MEASUREMENT	172	*****	(26)	*****	45 WKLY AVG	*****	MG/L (19)	0		
SOLIDS, TOTAL SUSPENDED 00530 G 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1226 MO AVG	2452 DAILY MAX	LBS/DAY (26)	*****	6.0	7.0	MG/L (19)	0	2/MONTH	COMP 24
	SAMPLE MEASUREMENT	143	172	(26)	*****	30 MO AVG	60 DAILY MAX	MG/L (19)	0		
NITROGEN AMMONIA TOTAL (as N) 00610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	409.8	409.8	LBS/DAY (26)	*****	18.0	18.0	MG/L (19)	0	1/MONTH	COMP 24
	SAMPLE MEASUREMENT	0.089	0.089	(26)	*****	REPORT MO AVG	REPORT DAILY MAX	MG/L (28)	0		
SILVER TOTAL RECOVERABLE 01079 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	0.089	0.089	LBS/DAY (26)	*****	3.15	3.15	ug/L (28)	0	1/MONTH	
	SAMPLE MEASUREMENT	0.729	0.729	(26)	*****	REPORT	REPORT	ug/L (28)	0		
ZINC TOTAL RECOVERABLE 01094 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	0.110	0.110	LBS/DAY (26)	*****	28.0	28.0	ug/L (28)	0	1/MONTH	
	SAMPLE MEASUREMENT	0.110	0.110	(26)	*****	REPORT	REPORT	ug/L (28)	0		
LEAD TOTAL RECOVERABLE 01114 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	0.400	0.402	LBS/DAY (26)	*****	5.0	5.0	ug/L (28)	0	1/MONTH	
	SAMPLE MEASUREMENT	0.400	0.402	(26)	*****	REPORT	REPORT	ug/L (28)	0		
COPPER TOTAL RECOVERABLE 01119 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1.82 MO AVG	3.92 DAILY MAX	LBS/DAY (26)	*****	17.0	17.5	ug/L (28)	0	2/MONTH	COMP 24
	SAMPLE MEASUREMENT	0.400	0.402	(26)	*****	44.5 MO AVG	95.8 DAILY MAX	ug/L (28)	0		

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TELEPHONE  
907 586-0393  
AREA CODE PHONE NUMBER  
DATE  
2006 10 9  
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS  
\* Concerning violations-please see attached. The reporting period was from 09/03/2006 through 09/30/2006.  
(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED).

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FECAL COLIFORM MF, M-FC BROTH 44.5C 31616 W 0 0 SEE COMMENTS BELOW	*****	*****	****	*****	*****	10.0	*****	(13)	0		
	PERMIT REQUIREMENT	*****	*****	****	*****	800 WKLY GEO	*****	#/100ML		ONCE/WEEK	GRAB
FECAL COLIFORM MF, M-FC BROTH 44.5C 31616 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	3.0	10.0	(13)	0		
	PERMIT REQUIREMENT	*****	*****	****	*****	400 MO GEO	1200 DAILY GEO	#/100ML		ONCE/WEEK	GRAB
FLOW IN CONDUIT OR THROUGH TREATMENT PLANT 50050 P 0 0 SEE COMMENTS BELOW	*****	3.06	4.34	(03)	*****	*****	*****	****	0	7/7	
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD	*****	*****	*****	****		CONTINUOUSLY	RECORDED
EFFLUENT DILUTION RATIO 78480 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	632	*****	(23)	0	7/7	
	PERMIT REQUIREMENT	*****	*****	****	*****	10 MINIMUM	*****	PERCENT		DAILY	CALCULATED
BOD, 5-DAY PERCENT REMOVAL 81010 K 0 0 PERCENT REMOVAL	*****	*****	****	*****	*****	95	*****	(23)	0	1/30	
	PERMIT REQUIREMENT	*****	*****	****	*****	85 MIN % REMOVAL	*****	PERCENT		ONCE/MONTH	CALCULATED
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENT REMOVAL	*****	*****	****	*****	*****	96	*****	(23)	0	1/30	
	PERMIT REQUIREMENT	*****	*****	****	*****	85 MIN % REMOVAL	*****	PERCENT		ONCE/MONTH	CALCULATED
TURBIDITY, LAB NTU 82079 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	6.4	8.9	(43)	0		
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MAX	NTU		5/WEEK	RECORDED

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
HARDNESS as CaCO3 82394 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	****	*****	<b>125.5</b>	<b>150.0</b>	(19)	0		
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MAX	MG/L		ONCE/MONTH	COMP
DISSOLVED OXYGEN 00300 EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	****	<b>4.0</b>	<b>4.3</b>	<b>4.9</b>	(19)	0		
	PERMIT REQUIREMENT	*****	*****	****	REPORT MINIMUM	REPORT MO AVG	REPORT DAILY MAX	MG/L		ONCE/MONTH	GRAB
TOXICITY, CERIODAPHNIA CHRONIC 61406 EFFLUENT GROSS VALUE	MEASUREMENT	N/A	*****	****	*****	*****	*****	(73)	0	1/182	
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	10.0 MAXIMUM	TUC		TWICE/YEAR	COMP
	MEASUREMENT	*****	*****	****	*****	*****	*****				
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	*****				
	MEASUREMENT	*****	*****	****	*****	*****	*****				
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	*****				
	MEASUREMENT	*****	*****	****	*****	*****	*****				
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	*****				

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MENDENHALL WASTEWATER TREATMENT FACILITY

Juneau, Alaska

September 2006

EPA REPORT

DAY	DATE	WEATHER		FLOWS						INFLUENT							EFFLUENT						MISC					
		TEMP °F	RAIN FALL INCHES	SBR INFLUENT MGD	Mend. River CFS	SBR T.T.L EFFL MGD	Receiving Water Dilution	SBR WASTE MGD	TEMP °C	pH	D.O. mg/L	S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	Cu ug/L	Clu LBS	HARD mg/L	TEMP °C	pH	D.O. mg/L	TURBID. MAX NTU		S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	FECAL COLIFORM /100 ml
SUN	3	52	0.06	2.93	15900	2.93	3506.6 /1	0.0620										14.8	6.4	4.9	5.3						87	
MON	4	55	0.14	2.90	8140	2.90	1814.3 /1	0.0666	15.0	6.8	5.1							14.7	6.4	4.1	5.3	5.0	113.8	9.4	214.5		88	
TUE	5	53	0.17	2.73	7790	2.73	1844.3 /1	0.0560	13.9	6.9	5.4	130	2960	156	3552	17.5	0.398	101	14.7	6.4	4.1	5.3					93	
WED	6	50	0.51	2.62	7970	2.62	1966.1 /1	0.0537	13.9	6.7	6.1							15.1	6.5	4.0	6.3					2.0	92	
THU	7	53	0.68	3.37	7040	3.37	1350.5 /1	0.0766	13.6	6.4								14.9	6.4		6.9						95	
FRI	8	55	0.24	3.12	8120	3.12	1682.3 /1	0.0830	14.4	6.6								15.0	6.4		7.3						96	
SAT	9	49	0.78	3.12	7020	3.12	1454.5 /1	0.0874																			96	
SUN	10	49	0.66	3.46	7320	3.46	1367.7 /1	0.0634																			98	
MON	11	52	0.13	3.18	6710	3.18	1364.1 /1	0.0699	14.2	6.9								14.8	6.4		4.6						84	
TUE	12	49	0.00	2.94	5340	2.94	1174.3 /1	0.0557	13.4	6.5		138	3384	256	6277	16.4	0.402	150	14.1	6.4	4.6	5.9	7.0	171.6	10.2	250.1	90	
WED	13	48	0.00	3.71	4430	3.71	772.4 /1	0.0540	13.6	6.5								14.7	6.4		5.9					10.0	86	
THU	14	48	0.00	2.54	3930	2.54	1000.5 /1	0.0640	13.7	6.6								14.6	6.3		8.4						107	
FRI	15	47	0.00	2.45	3670	2.45	968.7 /1	0.0816	14.4	6.6								14.8	6.3		7.9						95	
SAT	16	46	0.00	3.35	3270	3.35	631.6 /1	0.0811																			86	
SUN	17	46	0.00	2.46	3270	2.46	859.7 /1	0.0522																			87	
MON	18	47	0.04	2.40	3130	2.40	843.5 /1	0.0759	14.7	6.8								15.2	6.5		8.1						88	
TUE	19	49	0.63	2.44	3000	2.44	795.3 /1	0.0719	14.1	6.6								15.1	6.5		6.5						91	
WED	20	49	0.59	2.64	3710	2.64	908.8 /1	0.0651	13.3	6.6								15.3	6.5		5.9					2.0	95	
THU	21	54	0.19	2.48	4480	2.48	1168.0 /1	0.0748	13.5	6.5								14.9	6.4		8.9						93	
FRI	22	51	0.54	2.66	4740	2.66	1152.1 /1	0.0926	14.9	6.4								14.9	6.3								97	
SAT	23	51	0.15	2.46	5860	2.46	1539.8 /1	0.0675																			86	
SUN	24	48	2.73	3.50	7480	3.50	1381.6 /1	0.0745																			97	
MON	25	49	0.06	3.78	9660	3.78	1651.9 /1	0.0638	13.9	6.9								14.1	6.3		5.5						94	
TUE	26	52	0.73	3.43	9890	3.43	1863.7 /1	0.0452	13.2	6.5								13.7	6.4		4.8						96	
WED	27	54	0.31	3.25	11150	3.25	2217.3 /1	0.0401	13.6	6.5								13.9	6.4		7.2					2.0	94	
THU	28	51	1.20	3.79	12300	3.79	2097.5 /1	0.0736	14.0	6.4								14.1	6.3		5.9						94	
FRI	29	50	0.30	4.34	13450	4.34	2003.0 /1	0.0937	13.6	6.3								14.5	6.3		6.1						123	
SAT	30	45	0.25	3.74	8990	3.74	1553.8 /1	0.0712																			97	
TOTAL			11.09	85.79		85.79		1.9171																			2625	
MAXIMUM		55	2.73	4.34	15900	4.34	3506.6 /1	0.0937	15.0	6.9	6.1	138	3384	256	6277	17.5	0.402	150	15.3	6.5	4.9	8.9	7.0	171.6	10.2	250.1	10.0	123
MINIMUM		45	0.00	2.40	3000	2.40	631.6 /1	0.0401	13.2	6.3	5.1	130	2960	156	3552	16.4	0.398	101	13.7	6.3	4.0	4.6	5.0	113.8	9.4	214.5	2.0	84
AVERAGE		50.1	0.40	3.06	7062.9	3.06	1461.9 /1	0.0685	13.9	6.6	5.5	134	3171.8	206.0	4914.4	17.0	0.400	125.5	14.7	6.4	4.3	6.4	6.0	142.7	9.8	232.3	3.0	93.5

COMMENTS:

- \* GEOMETRIC MEAN WAS USED TO CALCULATE THE AVERAGE FECAL COLIFORM COLONIES
- \* CONCERNING VIOLATIONS PLEASE SEE ATTACHED

Sept. 2006	
Hrd. mg/l	125.5
Alk. mg/l	139.0
D.O. mg/l	4.0
Turb. NTU	8.9

Tox. TUc	N/A
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Sept. 2006		
	ug/L	LBS
Copper	17.0	0.400
Lead	5.01	0.110
Silver	3.15	0.089
Zinc	28.00	0.729
NH3 mg/L	18.00	409.83

WEEK	WEEKLY AVERAGE				WEEKLY Coliform (Geo. Mean)
	BOD (mg/l)	TSS (lbs)	BOD (mg/l)	TSS (lbs)	
1	9.4	214.5	5.0	113.8	2.0
2	10.2	250.1	7.0	171.6	10.0
3					2.0
4					2.0
AVG	9.8	232.3	6.0	142.7	3.0
MAX	10.2	250.1	7.0	171.6	10.0

% REMOVAL	
B.O.D.	95.2
S.S.	95.5

POWER USAGE IN KILOWATT HOURS	
TOTAL	420000