

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


MAJOR
(SUB 01)
F - FINAL
EFFLUENT
*** NO DISCHARGE
NOTE: Read instructions

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

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:	Tom Trego WW Utilities Superintendent

AK-002295-1
PERMIT NUMBER

MONITORING PERIOD			
YR	MO	DAY	TO
2011	5	1	

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS
Turbidity	SAMPLE MEASUREMENT	*****	*****	****	*****	9.9	18.3	(43)
00070 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	NTU
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	*****	*****	****	3.2	4.9	*****	(19)
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	****	Req. Mon. DAILY MN	Req. Mon. MO AVG	*****	19 mg/L
BOD, 5-Day, 20 deg. C	SAMPLE MEASUREMENT	247.8	360.6	(26)	*****	16.5	23	(19)
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	1226 MO AVG	2452 DAILY MX	lb/d	*****	30 MO AVG	60 DAILY MX	19 mg/L
BOD, 5-Day, 20 deg. C	SAMPLE MEASUREMENT	247.8	*****	(26)	*****	16.5	*****	(19)
00310 W 0 See Comments	PERMIT REQUIREMENT	1829 WKLY AVG	*****	lb/d	*****	45 WKLY AVG	*****	19 mg/L
pH	SAMPLE MEASUREMENT	*****	*****	****	6.0	*****	7.1	(12)
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	****	6.5 INST MIN	*****	9.0 INST MAX	12 SU
Alkalinity, total (asCaCo3)	SAMPLE MEASUREMENT	*****	*****	****	*****	160.0	160.0	(19)
00410 1 7 Effluent Gross	PERMIT REQUIREMENT	*****	*****	****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	19 mg/L
Solids, total suspended	SAMPLE MEASUREMENT	342	377	(26)	*****	23.0	26.0	(19)
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	1226 MO AVG	2452 DAILY MX	lb/d	*****	30 MO AVG	60 DAILY MX	19 mg/L
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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 violation:				 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			
TYPED OR PRINTED	Tom Trego Wastewater Utilities Superintendent							

COMMENT AND EXPLANATION OF ANY VIOLATIONS
* The reporting period was from 5/1/2011 through 5/28/2011.

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS
Solids, total suspended 00530 W 0 See Comments	SAMPLE MEASUREMENT	377.3	*****	(26)	*****	26.0	*****	(19)
	PERMIT REQUIREMENT	1829 WKLY AVG	*****	lb/d	*****	45 WKLY AVG	*****	19 mg/L
Nitrogen, ammonia total (as N) 00610 1 0 Effluent Gross	SAMPLE MEASUREMENT	296.9	296.9	(26)	*****	20.0	20.0	(19)
	PERMIT REQUIREMENT	1164 MO AVG	1963 DAILY MX	lb/d	*****	28.5 MO AVG	48 DAILY MX	19 mg/L
Hardness, total (as CaCO3) 00900 1 6 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	****	*****	100	100	(19)
	PERMIT REQUIREMENT	*****	*****	****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	19 mg/L
Silver, total recoverable 01079 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.000	0.000	(26)	*****	0.000	0.000	(28)
	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	lb/d	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	28 ug/L
Zinc, total recoverable 01094 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.508	0.508	(26)	*****	34.0	34.0	(28)
	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	lb/d	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	28 ug/L
Lead, total recoverable 01114 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.000	0.000	(26)	*****	0.000	0.000	(28)
	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	lb/d	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	28 ug/L
Copper, total recoverable 01119 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.267	0.267	(26)	*****	18.0	18.0	(28)
	PERMIT REQUIREMENT	3.54 MO AVG	7.63 DAILY MX	lb/d	*****	86.7 MO AVG	187 DAILY MX	28 ug/L

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Tom Trego
Wastewater Utilities Superintendent

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PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS
Coliform, fecal - % sample exceeds limit 30500 O 0 See Comments	SAMPLE MEASUREMENT	*****	*****		*****	*****	0	(23)
	PERMIT REQUIREMENT	*****	*****		*****	*****	10 DAILY MX	%
Fecal coliform, MPN, EC med, 44.5 C 31615 O 0 See Comments	SAMPLE MEASUREMENT	*****	*****	****	*****	N/A	N/A	(13)
	PERMIT REQUIREMENT	*****	*****	****	*****	161 MO GEO	Req. Mon. DAILY MX	13 #/100mL
Fecal coliform, MPN, EC med, 44.5 C 31615 P 0 See Comments	SAMPLE MEASUREMENT	*****	*****	****	N/A	N/A	N/A	(13)
	PERMIT REQUIREMENT	*****	*****	****	400 WKLY GEO	200 MO GEO	800 DAILY MX	#/100mL
Fecal coliform, MPN, EC med, 44.5 C 31615 Q 0 See Comments	SAMPLE MEASUREMENT	*****	*****		N/A	N/A	N/A	(13)
	PERMIT REQUIREMENT	*****	*****		400 WKLY GEO	200 MO GEO	800 DAILY MX	#/100mL
Fecal coliform, MPN, EC med, 44.5 C 31615 R 0 See Comments	SAMPLE MEASUREMENT	*****	*****	****	4.5	3.1	10	(13)
	PERMIT REQUIREMENT	*****	*****	****	800 WKLY GEO	400 MO GEO	1200 DAILY MX	#/100mL
Floating solids or visible foam-visual 45613 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	*****	0	
	PERMIT REQUIREMENT	*****	*****		*****	*****	Req. Mon. DAILY MX	Y=1 ; N=0
Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross	SAMPLE MEASUREMENT	1.8	1.9	(03)	*****	*****	*****	****
	PERMIT REQUIREMENT	Req. Mon. MO AVG	4.9 DAILY MX	3 Mgal/d	*****	*****	*****	****

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Tom Trego
Wastewater Utilities Superintendent

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS
Chlorine, total residual	SAMPLE MEASUREMENT	N/A	N/A	(26)	*****	N/A	N/A	(28)
50060 S 0 See Comments	PERMIT REQUIREMENT	4.09 MO AVG	4.09 DAILY MX	lb/d	*****	100 MO AVG	100 DAILY MX	ug/l
Dilution factor	SAMPLE MEASUREMENT	*****	*****	****	0.6	0.7	*****	ug/L
80093 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	****	Req. Mon. DAILY MN	Req. Mon. MO AVG	*****	1U
BOD,5-day, percent removal	SAMPLE MEASUREMENT	*****	*****	****	96.6	*****	*****	(23)
81010 K 0 Percent Removal	PERMIT REQUIREMENT	*****	*****	****	85 MN % RMV	*****	*****	23 %
Solids, suspended percent removal	SAMPLE MEASUREMENT	*****	*****	****	90.3	*****	*****	(23)
81011 K 0 0 Percent Removal	PERMIT REQUIREMENT	*****	*****	****	85 MN % RMV	*****	*****	23 %
Chlorine usage	SAMPLE MEASUREMENT	N/A	*****	(26)	*****	*****	*****	
81400 X 0 End of Chlorine Contact Chamber	PERMIT REQUIREMENT	Req. Mon. MO AVG	*****	lb/d	*****	*****	*****	
Oil and grease visual	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0	(93)
84066 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	****	*****	*****	Req. Mon. DAILY MX	occur/mo
Toxicity, Chronic	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0	(2G)
TT000 1 8 Effluent Gross	PERMIT REQUIREMENT	*****	*****	****	*****	*****	Req. Mon. DAILY MX	px chronic

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Scott Jeffers
Wastewater Utilities Superintendent

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MENDENHALL WASTEWATER TREATMENT FACILITY
Juneau, Alaska

EPA REPORT

DAY	DATE	FLOWS					INFLUENT						EFFLUENT								
		SBR INFLUENT MGD	Mend. River CFS	SBR Ttl Effl MGD	Receiving Water Dilution	SBR WASTE MGD	TEMP °C	pH	D.O mg/L	SS mg/L	BOD mg/L	B.O.D. LBS	TEMP °C	pH	D.O mg/L	TURBID MAX NTU	SS mg/L	SS LBS	B.O.D. mg/L		
SUN	1	2.10	114	1.72	0.661 /1	0.0273									8.4						
MON	2	1.87	205	1.78	0.655 /1	0.0888	14.3	7.5	6.8			16.3	6.9	6.0	7.1						
TUE	3	2.04	221	1.78	0.654 /1	0.0915	12.5	7.2	7.1			13.3	6.7	4.5	8.2						
WED	4	2.03	244	1.88	0.654 /1	0.0562	13.9	7.2	6.8	272	4605	535	9058	13.2	6.7	4.6	7.6	20	314	23	
THU	5	1.89		1.74		/1	0.0434	12.0	7.5	7.8				13.1	6.8	5.1	7.5				
FRI	6	2.06	262	1.79	0.653 /1	0.0976	13.2	7.6	7.1			12.0	6.7	4.3	11.9						
SAT	7	2.12	272	1.78	0.653 /1	0.0414									14.3						
SUN	8	2.02	149	1.77	0.658 /1	0.0587									14.2						
MON	9	2.21	273	1.87	0.653 /1	0.1655	12.0	8.2	8.2			14.6	7.1	6.6							
TUE	10	2.27	241	1.89	0.654 /1	0.0106	12.0	7.4	7.3			13.3	6.9	6.6	18.3						
WED	11	2.16	218	1.74	0.654 /1	0.0698	11.1	7.3	7.9	225	4053	447	8052	13.8	6.0	7.0	13.6	26	377	13	
THU	12	2.28	231	1.82	0.654 /1	0.0854	12.7	7.3	4.5			13.9	6.8	3.5	7.5						
FRI	13	2.12		1.80		/1	0.0713	13.5	7.4	6.4				14.2	6.8	3.2	9.1				
SAT	14	2.11	332	1.78	0.651 /1	0.1033									11.2						
SUN	15	2.04	311	1.72	0.652 /1	0.0276									16.9						
MON	16	2.16	311	1.86	0.652 /1	0.0929	12.5	7.6	6.0			15.5	6.9	5.3	11.2						
TUE	17	2.15	353	1.78	0.651 /1	0.1297	12.9	7.2	6.5			14.9	6.7	4.1	9.9						
WED	18	2.19		1.80		/1	0.0605	14.6	7.2	6.3	201	3671	419	7653	21.2	7.0	6.0	7.8	22	330	13
THU	19	2.16	616	1.71	0.649 /1	0.1730	15.0	7.2	6.8			15.1	6.7	4.4	8.7						
FRI	20	2.25	466	1.76	0.650 /1	0.1720	14.1	7.3	7.0			14.8	6.7	4.4	8.5						
SAT	21	2.07	627	1.68	0.649 /1	0.2719									6.8						
SUN	22	2.14	610	1.79	0.649 /1	0.0564									8.4						
MON	23	2.14	580	1.79	0.649 /1	0.0993	14.7	7.4	6.3			15.3	6.7	5.3	7.8						
TUE	24	1.98	592	1.73	0.649 /1	0.1007	15.7	7.6	6.8			15.1	6.8	4.4	5.8						
WED	25	2.02	731	1.76	0.648 /1	0.0915	14.6	7.2	6.6			14.0	6.7	4.2	10.2						
THU	26	1.97	958	1.84	0.648 /1	0.0496	13.8	7.1	7.6			15.3	6.8	4.3	8.9						
FRI	27	2.02	1260	1.74	0.647 /1	0.0984	13.4	7.4	5.6	252	4245	540	9097	14.4	7.0	3.7	8.4	24	348	17	
SAT	28	2.03	1260	1.76	0.647 /1	0.1085									9.2						
TOTAL		58.60		49.86		2.5408															
MAXIMUM		2.28	1260	1.89	0.7 /1	0.2719	15.7	8.2		272	4605	540	9097	21.2	7.1	7.0	18.3	26.0	377.3	23.0	
MINIMUM		1.87	114	1.68	0.6 /1	0.0106	11.1	7.1		201	3671	419	7653	12.0	6.0	3.2	5.8	20.0	313.6	13.0	
AVERAGE		2.09	457	1.78	0.7 /1	0.0907	13.4	7.4		237.5	4143.7	485.3	8465.1	14.7	6.8	4.9	9.9	23.0	342.4	16.5	
Number of Analyses		28	25	28	25	28	20	20	20	4	4	4	4	20	20	27	4	4	4	4	

COMMENTS:

* GEOMETRIC MEAN WAS US THE AVERAGE FECAL COLIFORM COLONIES

WEEK	May 2011		June 2011		WEEKLY AVERAGE				WEEKLY
	Hrd. mg/l	Alk. mg/l	D.O. mg/l	Turb. NTU	Copper ug/L	Lead	Silver	Zinc	COLIFORM
	mg/l	lbs	mg/l	lbs	mg/l	lbs	mg/l	lbs	Geo. Mean
1	23	361	20	314	0.0	0.00	0.0	0.00	4.5
2	13	189	26	377	0.0	0.00	0.0	0.00	3.5
3	13	195	22	330	34.0	0.51			2.8
4	17	247	24	348	20.0	297			2.0
5									
AVG	17	248	23	342					3.1
MAX	23	361	26	377					4.5