

MENDENHALL WASTEWATER TREATMENT FACILITY
Juneau, Alaska

October 2013

DAY	DATE	FLOWS										INFLUENT										EFFLUENT									
		SER INFLUENT	TEMP	FLOW	Flow	SBR	Receiving	SBR	WASTE	SR	Temp	D.O.	S.S.	B.O.D.	FOG	FOG*	FOG	NH3	Temp	pH	D.O.	TURBID	S.S.	B.O.D.	B.O.D.	FOG	FOG	TOTAL	NH3		
		MGD	°F	CFS	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	
SUN	29	1.99	46	0.00	0.00	1.99	1.00	0.0895	15.3	7.5	3.1	330	5367	300	4878			17.4	7.1	5.7	22.6	20	337	21	354				5		
MON	30	1.95	49	0.01	0.01	2.02	1.00	0.0982	15.3	6.9	3.2	220	3725	420	7111			16.2	7.0	2.9	25.4	22	371	19	320				30		
TUE	1	2.03	51	0.13	0.13	2.02	1.00	0.0958	15.2	6.9	3.2	220	3725	420	7111			16.2	7.0	2.9	25.4	22	371	19	320				10		
WED	2	2.07	49	0.00	0.00	1.83	1.00	0.2157	14.8	7.3	2.7	320	5524	370	6388			16.1	6.9	3.1	65.5	32	488	24	366						
THU	3	2.14	47	0.16	0.16	1.89	1.00	0.1660	15.0	6.9	3.1	170	3034	300	5554			16.1	7.0	2.7	21.1	20	315	21	331						
FRI	4	2.34	47	0.76	0.76	2.11	1.00	0.1650	14.3	7.4	3.2	250	4879	320	6245			15.7	7.0	3.0	15.8	18	317	23	405				16		
SAT	5	2.56	45	0.17	0.17	2.47	1.00	0.8260																							
SUN	6	2.21	40	0.00	0.00	2.17	1.00	0.0540																							
MON	7	2.01	42	0.03	0.03	1.97	1.00	0.0980	14.4	7.0	2.9	200	3353	240	4023			15.3	6.9	3.0	100	25	411	16	263				1		
TUE	8	2.18	40	0.78	0.78	1.96	1.00	0.1060	14.9	7.0	3.1	280	4727	380	6906			16.5	6.8	4.1	41.9	32	523	25	409						
WED	9	2.63	47	1.35	1.35	2.63	1.00	0.1515	14.5	6.9	3.4	240	5264	310	6900			15.3	6.8	3.3	10.9	34	689	30	608						
THU	10	2.51	46	0.35	0.35	2.39	1.00	0.1530	13.9	7.0	3.0	280	5881	330	6908			15.4	6.8	3.1	18.1	24	478	24	478						
FRI	11	2.73	45	0.39	0.39	2.64	1.00	0.1580	13.9	7.4	3.0	280	6375	360	8197			14.8	6.7	3.1	37.4	21	450	19	407				8		
SAT	12	2.36	46	0.02	0.02	2.15	1.00	0.1190																							
SUN	13	2.15	47	0.50	0.50	2.14	1.00	0.0517																							
MON	14	3.05	47	0.92	0.92	2.87	1.00	0.2421	13.0	7.0	3.1	160	4070	170	4324			14.6	6.9	3.3	84	44	1053	22	527				4		
TUE	15	2.78	44	0.03	0.03	2.66	1.00	0.2026	13.4	7.2	3.2	300	6956	250	5796			14.4	6.8	3.4	8.8	40	894	27	603				1		
WED	16	2.60	47	0.03	0.03	2.64	1.00	0.1630	13.4	7.3	2.7	190	4120	230	4987			14.3	6.7	3.4	8.1	19	418	15	330				6		
THU	17	2.34	44	0.00	0.00	2.34	1.00	0.1916	13.6	7.0	3.3							14.5	6.8	3.0	98.1										
FRI	18	2.43	48	0.19	0.19	2.33	1.00	0.1698	13.9	7.3	3.3	110	2229	250	5067			14.4	6.9	3.3	7.6	29	564	13	253				11		
SAT	19	2.64	48	0.41	0.41	2.64	1.00	0.1271																							
SUN	20	3.04	48	1.05	1.05	3.08	1.00	0.0824																							
MON	21	2.95	41	0.00	0.00	2.80	1.00	0.0916	13.7	7.0	3.7	110	2708	150	3690			13.9	6.9	4.8	10.7	11	280	12	305				4		
TUE	22	2.84	39	0.17	0.17	2.53	1.00	0.1487	13.8	7.0	3.6							14.4	7.0	3.7	47.7								12		
WED	23	2.87	47	0.83	0.83	2.84	1.00	0.1693	13.5	7.2	3.7							12	16.9	7.0	5.0	10.3								11	
THU	24	2.77	46	0.04	0.04	2.78	1.00	0.1632	12.9	7.2	2.8							14.7	6.9	3.4	10.2										
FRI	25	2.76	46	0.71	0.71	2.96	1.00	0.1691	13.1	7.3	3.1	190	4373	270	6215			14.8	6.9	2.3	9.8	13	323	22	547						
SAT	26	3.26	43	0.27	0.27	2.410	1.00	0.1620																							
TOTAL		69.99		9.32		67.91		4.6811																							
MAXIMUM		3.26	51	1.35	1.35	2.410	1.00	0.2620	15.3	7.5	3.7	330	6956	420	8197			17.4	7.1	5.7	100.0	44	1053	30	608				16		
MINIMUM		1.95	39	0.00	0.00	1.83	1.00	0.0517	12.9	6.9	2.7	110	2229	150	3690			13.9	6.7	2.3	6.9	11	280	12	253				6		
AVERAGE *		2.50	45	0.33	0.33	2.43	1.00	0.1695	14.0	7.2	3.2	228	4535	291	5906			15.3	6.9	3.5	31.6	25	494	21	407				10		
Number of Analyses		28		16	28	28	28	28	20	20	20	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		

Comments: *Geometric mean is used to calculate the average fecal coliform counts. **FOG samples highlighted in yellow are composite samples. ***NH3 sample is a composite

10/17/2013 No bar SX on Compositor setting wrong only one SX Pulled.
10/22/2013 No bar SX's Eff Comp. Flow Setting too High. Filling Jug
Jug in 6 hours not representative.

10/23/2013 all adjusting compositor and O on SCADA settings

WEEKLY AVERAGE		WEEKLY AVERAGE		WEEKLY AVERAGE	
BOD	TSS	BOD	TSS	BOD	TSS
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22	355	22	366	22	366
2	23	433	27	510	5
3	19	428	33	732	2
4	17	426	12	301	7
MAX	23	433	33	732	12

2013 Effluent		2013 Effluent	
mg/L	mg/L	mg/L	mg/L
13.0	0.32	10/25/2013	10/25/2013
Copper	0.00		
Lead	0.00		
Silver	0.00		
Zinc	0.00		
NH3 mg/L	0	224	10/25/2013

% REMOVAL	
B.O.D.	S.S.
69	69

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

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

NAME: JUNEAU, CITY AND BOROUGH OF
ADDRESS: 155 SOUTH SEWARD,
JUNEAU, ALASKA 99801
FACILITY: MENDENHALL VALLEY SERVICE AREA
LOCATION: JUNEAU, ALASKA 99801
ATT: Jim Westcott, Wastewater Utilities Supervisor


MAJOR (SUB 01)
F - FINAL
EFFLUENT
*** NO DISCHARGE

NOTE: Read instructions before completing this form.

AK-002295-1
PERMIT NUMBER

001 A
DISCHARGE NUMBER

MONITORING PERIOD			
YR	MO	DAY	TO
2013	9	29	
YR	MO	DAY	TO
2013	10	10	26

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	VALUE	VALUE				
Turbidity	*****	*****	*****	*****	****	0	(43)	
00070 1 0	*****	*****	*****	*****	****	0	(43)	
Effluent Gross	*****	*****	*****	*****	****	0	(19)	RCORDR
Oxygen, dissolved (DO)	*****	*****	*****	*****	****	0	(19)	
00300 1 0	*****	*****	*****	*****	****	0	(19)	
Effluent Gross	*****	*****	*****	*****	****	0	(19)	GRAB
BOD, 5-Day, 20 deg. C	407	608	21	30	(26)	0	(19)	
00310 1 0	1226	2452	30	60	lb/d	0	19	COMP24
Effluent Gross	MO AVG	DAILY MX	MO AVG	DAILY MX	lb/d	0	19	
BOD, 5-Day, 20 deg. C	433	*****	23	*****	(26)	0	(19)	
00310 W 0	1829	*****	45	*****	lb/d	0	19	COMP24
See Comments	WKLY AVG	*****	WKLY AVG	*****	lb/d	0	19	
pH	*****	*****	*****	*****	****	0	(12)	
00400 1 0	*****	*****	*****	*****	****	0	(12)	
Effluent Gross	*****	*****	*****	*****	****	0	(12)	GRAB
Alkalinity, total (asCaCo3)	*****	*****	*****	*****	****	0	(19)	
00410 1 7	*****	*****	*****	*****	****	0	(19)	
Effluent Gross	*****	*****	*****	*****	****	0	(19)	COMP24
Solids, total suspended	494	1053	25	44	(26)	0	(19)	
00530 1 0	1226	2452	30	60	lb/d	0	19	COMP24
Effluent Gross	MO AVG	DAILY MX	MO AVG	DAILY MX	lb/d	0	19	
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 violations.							
Jim Westcott Wastewater Utilities Supervisor	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							
TYPED OR PRINTED	2013 YEAR 11 MO 11 DAY							
COMMENT AND EXPLANATION OF ANY VIOLATIONS	* The reporting period was from 9/29/2013 through 10/26/2013.							

TELEPHONE
907 AREA CODE 586-0393
PHONE NUMBER
DATE

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

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

NAME: JUNEAU, CITY AND BOROUGH OF
ADDRESS: 155 SOUTH SEWARD,
JUNEAU, ALASKA 99801
FACILITY: MENDENHALL VALLEY SERVICE AREA
LOCATION: JUNEAU, ALASKA 99801
ATT: Jim Westcott, Wastewater Utilities Supervisor

MAJOR (SUB 01)
F - FINAL
EFFLUENT
*** NO DISCHARGE

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

NOTE: Read instructions before completing this form.

AK-002295-1
PERMIT NUMBER

001 A
DISCHARGE NUMBER

MONITORING PERIOD			
YR	MO	DAY	TO
2013	9	29	
YEAR	MO	DAY	TO
2013	10	10	26

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS			
Solids, total suspended	732	(26)	*****	(19)	0		
00530 W 0	1829	lb/d	*****	19		Twice Per Month	COMP24
See Comments	WEEKLY AVG		*****	mg/L			
Nitrogen, ammonia total (as N)	224	(26)	*****	(19)	0		
00610 1 0	1164	lb/d	*****	19		Once Per Month	COMP24
Effluent Gross	MO AVG		*****	mg/L			
Hardness, total (as CaCO3)	*****	****	*****	(19)	0		
00900 1 6	*****	****	*****	19		Once Per Month	GRAB
Effluent Gross	*****	****	*****	mg/L			
Silver, total recoverable	NA	(26)	*****	(28)	0		
01079 1 0	Req. Mon. MO AVG	lb/d	*****	28		Three Per Year	COMP24
Effluent Gross	*****	lb/d	*****	ug/L			
Zinc, total recoverable	NA	(26)	*****	(28)	0		
01094 1 0	Req. Mon. MO AVG	lb/d	*****	28		Three Per Year	COMP24
Effluent Gross	*****	lb/d	*****	ug/L			
Lead, total recoverable	NA	(26)	*****	(28)	0		
01114 1 0	Req. Mon. MO AVG	lb/d	*****	28		Three Per Year	COMP24
Effluent Gross	*****	lb/d	*****	ug/L			
Copper, total recoverable	0.162	(26)	*****	(28)	0		
01119 1 0	Req. Mon. MO AVG	lb/d	*****	28		Once Per Month	COMP24
Effluent Gross	*****	lb/d	*****	ug/L			

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.

Jim Westcott
Wastewater Utilities Supervisor

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	907	AREA CODE	2013	YEAR	11	MO	11	DAY
TELEPHONE	586-0393							
PHONE NUMBER								
DATE								
TYPED OR PRINTED								

* The reporting period was from 9/29/2013 through 10/26/2013.

EPA Form 3320-1 (03-99) Previous editions may be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED).

00434/981209 1904

PAGE 2 OF 5

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

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

NAME: JUNEAU, CITY AND BOROUGH OF
ADDRESS: 155 SOUTH SEWARD,
JUNEAU, ALASKA 99801
FACILITY: MENDENHALL VALLEY SERVICE AREA
LOCATION: JUNEAU, ALASKA 99801
ATT: Jim Westcott, Wastewater Utilities Supervisor

MAJOR (SUB 01)
F - FINAL
EFFLUENT
*** NO DISCHARGE

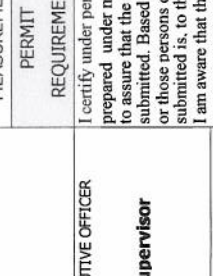
Form Approved
OMB No. 2040-0004
Approval Expires 05-31-98

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AK-002295-1
PERMIT NUMBER

001 A
DISCHARGE NUMBER

MONITORING PERIOD			
YR	MO	DAY	YEAR
2013	9	29	2013
			TO
			MO
			DAY
			26

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Coliform, fecal - % sample exceeds limit	*****	*****	*****	*****	0	(23)	0		
30500 O 0	*****	*****	*****	*****	10	DAILY MX		Twice Every Week	GRAB
See Comments	*****	*****	*****	*****	N/A	(13)	0		
Fecal coliform, MPN, EC med, 44.5 C	*****	*****	*****	*****	161	Req. Mon. MO GEO		Twice Every Week	GRAB
31615 O 0	*****	*****	*****	*****	N/A	(13)	0		
See Comments	*****	*****	*****	*****	400	WKLY GEO		Twice Every Week	GRAB
Fecal coliform, MPN, EC med, 44.5 C	*****	*****	*****	*****	200	MO GEO		Twice Every Week	GRAB
31615 P 0	*****	*****	*****	*****	N/A	(13)	0		
See Comments	*****	*****	*****	*****	400	WKLY GEO		Twice Every Week	GRAB
Fecal coliform, MPN, EC med, 44.5 C	*****	*****	*****	*****	12	(13)	0		
31615 Q 0	*****	*****	*****	*****	5	30		Twice Every Week	GRAB
See Comments	*****	*****	*****	*****	800	DAILY MX		Twice Every Week	GRAB
Fecal coliform, MPN, EC med, 44.5 C	*****	*****	*****	*****	800	WKLY GEO		Twice Every Week	GRAB
31615 R 0	*****	*****	*****	*****	1200	DAILY MX		Twice Every Week	GRAB
See Comments	*****	*****	*****	*****	0	(13)	0		
Floating solids or visible foam-visual	*****	*****	*****	*****	*****	*****		Twice Every Week	GRAB
45613 1 0	*****	*****	*****	*****	*****	*****		Twice Every Week	GRAB
Effluent Gross	*****	*****	*****	*****	*****	*****		Twice Every Week	GRAB
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	*****	*****		Twice Every Week	GRAB
50050 1 0	*****	*****	*****	*****	*****	*****		Twice Every Week	GRAB
Effluent Gross	*****	*****	*****	*****	*****	*****		Twice Every Week	GRAB
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 violations.								
Jim Westcott Wastewater Utilities Supervisor	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT								
TYPED OR PRINTED	907 AREA CODE 586-0393 TELEPHONE 2013 YEAR 11 MO 11 DAY								
COMMENT AND EXPLANATION OF ANY VIOLATIONS	* The reporting period was from 9/29/2013 through 10/26/2013.								

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DISCHARGE MONITORING REPORT (DMR)

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FACILITY: MENDENHALL VALLEY SERVICE AREA
LOCATION: JUNEAU, ALASKA 99801
ATT: Jim Westcott, Wastewater Utilities Supervisor

MAJOR
(SUB 01)
F - FINAL
EFFLUENT

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

*** NO DISCHARGE

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PERMIT NUMBER

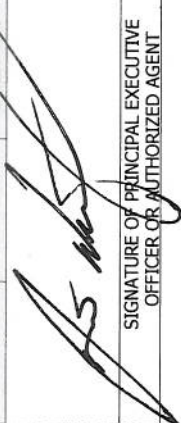
001 A
DISCHARGE NUMBER

MONITORING PERIOD

YR	MO	DAY	YEAR	MO	DAY
2013	9	29	2013	10	26

PARAMETER	QUANTITY OR LOADING			UNITS	QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	VALUE		VALUE	VALUE	UNITS			
Chlorine, total residual	N/A	N/A	N/A	(26)	*****	N/A	(28)	0		
50060 S 0	4.09	4.09	4.09	lb/d	*****	100	ug/l	0	QUARTERLY	COMP24
See Comments	MO AVG	DAILY MX	DAILY MX		*****	MO AVG				
Dilution factor	*****	*****	*****	*****	1	125	ug/L	0		
80093 1 0	*****	*****	*****	*****	Req. Mon.	Req. Mon.	1U	0	DAILY	MEASRD
Effluent Gross	*****	*****	*****	*****	DAILY MN	MO AVG				
BOD 5-day, percent removal	*****	*****	*****	*****	93	*****	(23)	0		
81010 K 0	*****	*****	*****	*****	85	*****	23	0	Once Per Month	CALCTD
Percent Removal	*****	*****	*****	*****	MN % RMV	*****	%			
Solids, suspended percent removal	*****	*****	*****	*****	89	*****	(23)	0		
81011 K 0 0	*****	*****	*****	*****	85	*****	23	0	Once Per Month	CALCTD
Percent Removal	*****	*****	*****	*****	MN % RMV	*****	%			
Chlorine usage	N/A	*****	*****	(26)	*****	*****		0		
81400 X 0	Req. Mon.	Req. Mon.	Req. Mon.		*****	*****		0	DAILY	MEASRD
End of Chlorine Contact Chamber	MO AVG	MO AVG	MO AVG	lb/d	*****	*****				
Oil and grease visual	*****	*****	*****	*****	*****	0	(93)	0		
84066 1 0	*****	*****	*****	*****	*****	*****		0	Once Per Month	VISUAL
Effluent Gross	*****	*****	*****	*****	*****	Req. Mon.	occur/mo			
Toxicity, Chronic	*****	*****	*****	*****	*****	NA	(2G)	0		
TT000 1 8	*****	*****	*****	*****	*****	Req. Mon.			Semiannual	COMP24
Effluent Gross	*****	*****	*****	*****	*****	DAILY MX	px chronic			

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT



907
AREA CODE
586-0393
PHONE NUMBER
DATE

2013
YEAR
11
MO
11
DAY

TYPED OR PRINTED

Jim Westcott
Wastewater Utilities Supervisor

COMMENT AND EXPLANATION OF ANY VIOLATIONS

* The reporting period was from 9/29/2013 through 10/26/2013.

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00434/981209 1904

PAGE 4 OF 5