

Alaska Department of Environmental Conservation Monthly Discharge Monitoring Report (DMR)

CONTACT NAME: Samantha Stoughtenger
 MAILING ADDRESS: 2009 Radcliffe Rd.
 Juneau, AK 99801

FACILITY: MENDENHALL WW TREATMENT FACILITY
 LOCATION: 2009 RADCLIFFE RD
 Juneau, AK 99801

PERMIT NUMBER: AK0022951

MONITORING PERIOD: 1-Sep-14

TO 30-Sep-14

OUTFALL / MONITORING POINT: 001A MENDENHALL RIVER DIFFUSER

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Temperature (C) 1 - Final Effluent 00010	Sample meas.	*****	*****		*****	15.8	16.7		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	DEG.C		5X Weekly	Grab
Dissolved Oxygen 1 - Final Effluent 00300	Sample meas.	*****	*****		2.8	*****	5.1		0		
	Permit reqmt.	*****	*****		Report daily minimum	*****	Report daily maximum	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5) 1 - Final Effluent 00310	Sample meas.	334.9	456.6		*****	18.0	26.0		0		
	Permit reqmt.	1226 monthly average	2452 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		2X Monthly	24-Hr Composite
Biochemical Oxygen Demand (BOD5) G - Influent 00310	Sample meas.	*****	*****		*****	296.5	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Biochemical Oxygen Demand (BOD5) W - See Comments 00310	Sample meas.	389.6	*****		*****	23.6	*****		0		
	Permit reqmt.	1839 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		2X Monthly	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER GRIEKO TEMPEL SR. OPERATOR	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that 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.	TELEPHONE 907.506.0393	DATE 2014/10/14
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA NUMBER	Y M D

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		Average	Maximum		Minimum	Average	Maximum				
pH 1 - Final Effluent 00400	Sample meas.	*****	*****		6.9	*****	7.1		0		
	Permit reqmt.	*****	*****		6.3 instantaneous minimum	*****	8.5 instantaneous maximum	S.U.		5X Weekly	Grab
Alkalinity, Total (as CaCO3) 1 - Final Effluent 00410	Sample meas.	*****	*****		*****	NA	NA		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Quarterly	24-Hr Composite
Total Suspended Solids 1 - Final Effluent 00530	Sample meas.	231.4	315.3		*****	12.3	19.0		0		
	Permit reqmt.	1226 monthly average	2452 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		2X Monthly	24-Hr Composite
Total Suspended Solids G - Influent 00530	Sample meas.	*****	*****		*****	197.7	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Total Suspended Solids W - See Comments 00530	Sample meas.	251.1	*****		*****	15.2	*****		0		
	Permit reqmt.	1839 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		2X Monthly	24-Hr Composite

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			907. 586. 0391	2014/10/14
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Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Ammonia Nitrogen (as N) 1 - Final Effluent 00610	Sample meas.	*****	*****		*****	12.0	12.0		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Monthly	24-Hr Composite
Hardness, Total (as CaCO3) 1 - Final Effluent 00900	Sample meas.	*****	*****		*****		74.7		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Monthly	24-Hr Composite
Silver Total Recoverable 1 - Final Effluent 01079	Sample meas.	*****	*****		*****	NA	NA		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		See Permit Requirements	24-Hr Composite
Zinc Total Recoverable 1 - Final Effluent 01094	Sample meas.	*****	*****		*****	NA	NA		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		See Permit Requirements	24-Hr Composite
Lead Total Recoverable 1 - Final Effluent 01114	Sample meas.	*****	*****		*****	NA	NA		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		See Permit Requirements	24-Hr Composite

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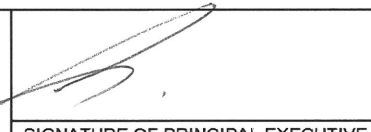
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TO 30-Sep-14

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Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Copper Total Recoverable 1 - Final Effluent 01119	Sample meas.	0.61	0.36		*****	20.5	22.0		0		
	Permit reqmt.	1.82 monthly average	3.92 daily maximum	lbs/day	*****	44.5 monthly average	95.8 daily maximum	ug/l		Monthly	24-Hr Composite
Chronic Toxicity 1 - Final Effluent TTOO	Sample meas.	*****	*****		*****	NA	NA		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	TUC		See Permit Requirements	24-Hr Composite
Floating solids, waste or visible foam-visual 1 - Final Effluent 45613	Sample meas.	*****	*****		*****	*****	P		0		
	Permit reqmt.	*****	*****		*****	*****	Report value	pass/fail		Monthly	Visual
Flow 1 - Final Effluent 50050	Sample meas.	2.3	2.7		*****	*****	*****		0		
	Permit reqmt.	Report monthly average	4.9 daily maximum	MGD	*****	*****	*****			Continuous	Recorded
Fecal Coliform 1 - Final Effluent 74055	Sample meas.	*****	*****		*****	29.6	106.0		0		
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Weekly	Grab

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			907.506.6393	2014/10/14
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Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Fecal Coliform W - See Comments 74055	Sample meas.	*****	*****		*****	74.2	*****		0		
	Permit reqmt.	*****	*****		*****	400 weekly geometric mean	*****	cts/100 ml		Weekly	Grab
BOD5 Minimum % Removal K - Percent Removal 81010	Sample meas.	*****	*****		93.9	*****	*****		0		
	Permit reqmt.	*****	*****		85 minimum	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal K - Percent Removal 81011	Sample meas.	*****	*****		93.9	*****	*****		0		
	Permit reqmt.	*****	*****		85 minimum	*****	*****	%		Monthly	Calculation

COMMENTS:
 W = Weekly Limits;

Mail this report when completed to ADEC, Division of Water, 555 Cordova Street, Anchorage, AK 99501-2617

Attach an explanation of any violations. Reference all attachments below.

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TYPED OR PRINTED			

MENDENHALL WASTEWATER TREATMENT FACILITY
Juneau, Alaska September 2014

		FLOWS				INFLUENT										Effluent									
DAY	DATE	SBR INFLUENT MGD	precip	SBR Tot EFF MGD	SBR WASTE MGD	TEMP °C	pH	D.O. mg/L	TSS mg/L	TSS LBS	B.O.D. mg/L	B.O.D. LBS	IPS TSS mg/L	IPS TSS LBS	IPS BOD mg/L	IPS BOD LBS	TEMP °C	pH	D.O. mg/L	TSS mg/L	TSS LBS	B.O.D. mg/L	B.O.D. LBS	FECAL COLIFORM /100 ml	
SUN	31	2.29	0.36	1.98	0.0820																				
MON	1	2.91	0.77	2.69	0.0896	14.0	7.2	3.0	160.0	3883.1	180.0	4368.5	300.0	7280.8	290.0	7038.1	15.9	6.9	3.1	9.0	201.9	14.0	314.1	40.0	
TUE	2	2.60	0.05	2.38	0.0620	15.1	7.3	3.1	110.0	2385.2	170.0	3686.3	280.0	6071.5	250.0	5421.0	15.8	7.0	4.0	9.0	178.6	10.0	198.5	27.0	
WED	3	2.66	0.23	2.42	0.0693	15.0	7.4	2.3	140.0	3105.8	380.0	8430.1	300.0	6655.3	350.0	7764.5	15.7	7.0	3.2	11.0	222.0	12.0	242.2		
THU	4	2.56	0.61	2.31	0.0717	14.8	7.4	2.6	190.0	4056.6	260.0	5551.1	330.0	7045.6	360.0	7686.1	16.1	7.0	2.8	13.0	250.5	14.0	269.7		
FRI	5	2.79	0.15	2.59	0.0610	14.8	7.1	3.0									16.2	7.0	3.4						
SAT	6	2.69	0.58	2.49	0.0643																				
SUN	7	2.94	0.44	2.71	0.0790																				
MON	8	2.79	0.00	2.59	0.0612	14.7	7.3	2.4	130.0	3024.9	190.0	4421.0	240.0	5584.5	340.0	7911.3	15.1	7.0	3.0	12.0	259.2	12.0	259.2	6.0	
TUE	9	2.53	0.01	2.28	0.0654	14.9	7.1	2.4	176.0	3713.6	250.0	5275.1	250.0	5275.1	340.0	7174.1	16.0	6.9	3.9	12.0	228.2	16.0	304.2	10.0	
WED	10	2.35	0.12	2.18	0.0457	7.2	14.7	2.7	192.0	3763.0	280.0	5487.7	290.0	5683.7	380.0	7447.6	15.8	6.9	3.8	12.0	218.2	14.0	254.5		
THU	11	2.49	0.40	2.27	0.0873	15.1	7.0	2.5	368.0	7642.1	500.0	10383.3	856.0	17776.2	600.0	12460.0	15.1	7.0	3.0	14.0	265.0	17.0	321.8		
FRI	12	2.23	0.04	2.09	0.1082	15.2	7.3	2.4	268.0	4984.3	390.0	7253.3	856.0	15920.1	530.0	9857.0	15.8	6.9	3.2	14.0	244.0	22.0	383.5		
SAT	13	2.26	0.01	2.06	0.0797																				
SUN	14	2.18	0.00	1.90	0.0919																				
MON	15	2.16	0.02	1.99	0.0771	15.4	7.2	2.1					328.0	5908.7	570.0	10268.2	16.5	7.0	5.1	19.0	315.3	25.0	414.9	52.0	
TUE	16	2.18	0.09	1.93	0.0458	14.8	7.3	2.7	192.0	3490.8	310.0	5636.2	336.0	6108.9	480.0	8727.0	16.6	7.1	3.3	17.0	273.6	25.0	402.4	106.0	
WED	17	2.13	0.01	1.96	0.0455	14.7	7.4	2.8	212.0	3766.0	360.0	6395.1	380.0	6750.4	660.0	11724.4	16.7	7.1	3.1	15.0	245.2	26.0	425.0		
THU	18	2.14	0.29	1.88	0.0748	14.8	7.4	2.5	232.0	4140.6	340.0	6068.2	1210.0	21595.6	440.0	7852.9	16.0	7.1	3.0	12.0	188.2	21.0	329.3		
FRI	19	2.34	0.62	2.15	0.0447	14.9	7.3	2.7	212.0	4137.3	350.0	6830.5	580.0	11319.0	410.0	8001.4	16.6	7.0	3.0	13.0	233.1	21.0	376.6		
SAT	20	2.45	0.68	2.23	0.0600																				
SUN	21	2.80	0.99	2.62	0.0754																				
MON	22	2.86	0.42	2.64	0.1221	14.2	7.3	2.4	172.0	4102.6	190.0	4532.0	1560.0	37209.7	330.0	7871.3	15.1	7.0	3.4	13.0	286.2	17.0	374.3	2.0	
TUE	23	2.78	0.01	2.56	0.0685	14.1	7.1	3.1	188.0	4358.8	290.0	6723.7	380.0	8810.4	330.0	7651.1	15.1	7.0	3.0	8.0	170.8	16.0	341.6	20.0	
WED	24	2.48	0.00	2.28	0.0514	14.0	7.1	2.8	236.0	4881.2	360.0	7446.0	460.0	9514.3	440.0	9100.6	15.1	7.0	2.9	13.0	247.2	18.0	342.3		
THU	25	2.22	0.18	2.01	0.0636	14.4	7.3	2.5	220.0	4073.3	330.0	6109.9	330.0	6109.9	420.0	7776.2	15.8	7.0	3.0	8.0	134.1	21.0	352.0		
FRI	26	2.27	0.10	2.19	0.0179	14.9	7.1	2.2	232.0	4392.2	440.0	8330.0	320.0	6058.2	570.0	10791.1	16.0	7.1	3.0	11.0	200.9	25.0	456.6		
SAT	27	2.32	0.85	2.10	0.0115																				
SUN	28	2.80	0.83	2.70	0.0578																				
MON	29	2.84	0.13	2.55	0.0625	13.7	7.3	3.1	116.0	2747.5	130.0	3079.1	224.0	5305.6	210.0	4974.0	15.0	7.0	4.1	12.0	255.2	16.0	340.3	13.0	
TUE	30	2.84	0.72	2.64	0.0508	7.3	14.0	2.7	208.0	4926.6	230.0	5447.7	244.0	5779.3	280.0	6632.0	15.2	7.0	3.4	11.0	242.2	15.0	330.3	20.0	
TOTAL		75.59	9.35	69.39	1.97																				
MAXIMUM		2.94	0.99	2.71	0.12	15.40	14.7	3.1	368.0	7642.1	500.0	10383.3	1560.0	37209.7	660.0	12460.0	16.7	7.1	5.1	19.0	315.3	26.0	456.6	106.0	
MINIMUM		2.13	0.00	1.88	0.01	7.17	7.0	2.1	110.0	2385.2	130.0	3079.1	224.0	5275.1	210.0	4974.0	15.0	6.9	2.8	8.0	134.1	10.0	198.5	2.0	
AVERAGE *		2.52	0.31	2.31	0.07	14.00		2.6	197.7	4078.8	296.5	6072.7	478.8	9893.5	408.6	8291.9	15.8		3.3	12.3	231.4	18.0	334.9	29.6	
Number of Analyses		31	31	31	31	22	22	22	20	20	20	20	21	21	21	21	22	22	22	21	21	21	21	10	0

Comments: No SXs collected on 9/5/14. NETDMR training. No SX pulled on INF comp. 9/15/14 Inf comp. plugged. 1/2 way through cycle.

2014	
Hrd. mg/l	74.7
Hrd. mg/l	
Alk. mg/l	
D.O. mg/l	3.3
Tox. Tuc	

2014	
ug/L	LBS
Copper	19.0 0.362
Copper	22.0 0.485
Lead	0.000
Silver	0.000
Zinc	0.000

***NH3 mg/L 12 228.3 9/9/2014

WEEK	EFF WEEKLY AVERAGE				IPS WEEKLY AVERAGE				WEEKLY		% REMOVAL	
	BOD		TSS		BOD		TSS		COLIFORM	B.O.D.		
	mg/l	lbs	mg/l	lbs	mg/l	lbs	mg/l	lbs	Geo. Mean	TSS		
1	12.5	256.1	10.5	213.3	312.5	6977.5	302.5	6763.3	32.9	Floating Solids		
2	16.2	304.7	12.8	242.9	438.0	8970.0	498.4	10047.9	7.7	Waste, or Foam		
3	23.6	389.6	15.2	251.1	512.0	9314.8	566.8	10336.5	74.2	Pass/Fail	P	
4	19.4	373.4	10.6	207.8	418.0	8638.1	610.0	13540.5	6.3			
MAX	23.6	389.6	15.2	251.1	512.0	9314.8	610.0	13540.5	74.2			