

MENDENHALL WASTEWATER TREATMENT FACILITY  
Juneau, Alaska

January 2016

DAY	DATE	FLOWS				Influent											Effluent								
		SBR INFLUENT MGD	prep	SBR Ttl Effl MGD	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	IPS mg/L	IPS LBS	IPS mg/L	IPS LBS	TEMP °C	pH	D.O. mg/L	S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	Turbidity on FC Grab	FECAL COLIFORM /100 ml
SUN	3	2.07	T	1.81	0.0837																				
MON	4	2.02	0.00	1.79	0.1004	11.2	7.6	6.8	185.0	3116.7	190.0	3200.9	4490.0	75642.1	420.0	7075.7	13.2	6.7	2.8	17.0	253.8	20.0	298.6	8.5	11.0
TUE	5	2.04	0.00	1.69	0.0912	10.8	7.3	7.2	226.0	3845.1	280.0	4763.8	980.0	16673.3	460.0	7826.3	11.9	6.8	2.9	15.0	211.4	19.0	267.8	8.5	58.0
WED	6	2.02	0.00	1.78	0.1157	12.5	7.3	2.4	244.0	4110.6	430.00	7244.1	1300.0	21900.8	540.0	9097.3	12.1	6.8	2.8	15.0	222.7	20.0	296.9		
THU	7	2.06	0.00	1.74	0.1373	12.9	7.3	7.2	250.0	4295.1	440.0	7559.4	440.0	7559.4	690.0	11854.5	12.0	7.0	3.3	16.0	232.2	20.0	290.2		
FRI	8	2.00	T	1.67	0.1263	11.7	7.5	7.5	180.0	3002.4	340.0	5671.2	330.0	5504.4	490.0	8173.2	12.3	6.8	3.0	15.0	208.9	19.0	264.6		
SAT	9	2.03	0.25	1.74	0.0837																				
SUN	10	1.92	0.08	1.56	0.0837																				
MON	11	2.15	0.60	1.81	0.1177	11.8	7.7	7.4	172.0	3084.1	210.0	3765.5	2110.0	37834.4	640.0	11475.8	12.6	7.0	3.6	13.0	196.2	16.0	241.5	8.4	3.0
TUE	12	2.12	0.06	1.89	0.1253	12.5	7.5	7.4	208.0	3677.6	330.0	5834.7	427.0	7549.7	430.0	7602.7	12.9	7.0	3.6	13.0	204.9	17.0	268.0	6.6	2.0
WED	13	2.02	0.12	1.72	0.1064	13.5	7.4	7.4	236.0	3975.8	470.0	7918.0	1520.0	25607.1	760.0	12803.6	12.5	6.9	3.0	15.0	215.2	18.0	258.2		
THU	14	2.45	0.96	2.23	0.1428	10.9	7.2	7.6	310.0	6334.2	490.0	10012.2	520.0	10625.2	650.0	13281.5	13.1	6.9	2.9	13.0	241.8	20.0	372.0		
FRI	15	2.23	T	2.01	0.1024	13.0	7.4	8.0	180.0	3347.7	270.0	5021.5	840.0	15622.5	400.0	7439.3	12.1	6.9	3.4	15.0	251.5	18.0	301.7		
SAT	16	2.05	T	1.83	0.0828																				
SUN	17	1.95	T	1.73	0.0505																				
MON	18	2.03	0.06	1.78	0.1251	13.4	7.3	7.1	180.0	3047.4	200.0	3386.0	6110.0	103443.5	520.0	8803.7	12.2	6.9	2.5	16.0	237.5	22.0	326.6	9.8	8.00
TUE	19	1.98	0.02	1.82	0.1076	11.2	8.0	7.2	244.0	4029.2	280.0	4623.7	676.0	11162.9	520.0	8586.9	12.8	6.8	2.7	18.0	273.2	19.0	288.4	10.2	25.0
WED	20	2.05	0.01	1.67	0.1143	12.5	7.2	8.3	420.0	7180.7	510.0	8719.5	680.0	11626.0	740.0	12652	13.1	7.0	2.6	15.0	208.9	23.0	320.3		
THU	21	2.01	0.11	1.71	0.1156	12.0	7.7	6.9	640.0	10728.6	810.0	13578.4	480.0	8046.4	730.0	12237	13.1	6.9	2.8	13.0	185.4	46.0	656.0		
FRI	22	1.93	0.06	1.66	0.0842	12.7	7.6	7.8	187.0	3010.0	330.0	5311.7	860.0	13842.7	620.0	9980	12.9	6.9	2.8	17.0	235.4	26.0	360.0		
SAT	23	2.03	0.29	1.83	0.0689																				
SUN	24	1.97	0.50	1.65	0.0801																				
MON	25	2.32	0.86	2.13	0.0961	11.0	7.1	7.1	206.0	3985.9	240.00	4643.7	744.0	14395.5	520.00	10061	12.20	6.97	3.1	13.0	230.9	23.0	408.6	9.0	13.0
TUE	26	2.90	0.87	2.83	0.1015	10.5	8.0	8.0	188.0	4547.0	230.00	5562.8	924.0	22347.9	360.00	8707	12.70	6.83	4.2	13.0	306.8	19.0	448.4	No data	3.0
WED	27	2.53	0.39	2.51	0.0860	9.8	7.2	8.4	212.0	4473.2	290.00	6119.1	840.0	17724.2	520.00	10972	13.10	6.93	4.2	10.0	209.3	18.0	376.8		
THU	28	2.63	0.55	2.48	0.1014	10.2	7.2	7.6	80.0	1754.7	250.00	5483.6	140.0	3070.8	390.00	8554	12.10	6.91	3.8	15.0	310.2	20.0	413.7		
FRI	29	2.49	0.04	2.41	0.0873				175.0	3634.2	390.00	8099.0	655.0	13602.1	480.00	9968			14.0	281.4	20.0	402.0			
SAT	30	2.26	0.00	2.18	0.0761	11.0	7.3	4.0									12.2	6.8	2.4						
TOTAL		60.26	5.83	53.66	2.7942																				
MAXIMUM		2.90	0.96	2.83	0.1428	13.5	8.0	8.4	640.0	10728.6	810.0	13578.4	6110.0	103443.5	760.0	13281.5	13.1	7.0	4.2	18.0	310.2	46.0	656.0	10.2	58.0
MINIMUM		1.92	0.00	1.56	0.0505	9.8	7.1	2.4	80.0	1754.7	190.0	3200.9	140.0	3070.8	360.0	7075.7	11.9	6.7	2.4	10.0	185.4	16.0	241.5	6.6	2.0
AVERAGE *		2.15	0.25	1.92	0.0998	11.76		7.07	236.2	4259.0	349.0	6325.9	1253.3	22189.0	544.0	9857.6	12.6		3.1	14.6	235.9	21.2	343.0	8.7	8.6
Number of Analyses		28	23	28	26	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	8	8

2016	
Hrd. mg/l	84.0
Hrd. mg/l	
Alk. mg/l	140.0
D.O. mg/l	2.4
Tox. TUc	N/A

2016 Metals		
	ug/L (ppm)	LBS
Copper	19.0	0.30
Copper		
Lead	N/D	N/D
Silver	N/D	N/D
Zinc	21.0	0.34
***NH3 mg/L	16.0	255.7

% REMOVAL	
B.O.D.	93.9
S.S.	93.8
Floating Solids	
Waste, or Foam	
Pass/Fail	P

WEEK	WEEKLY AVERAGE				WEEKLY
	BOD		TSS		COLIFORM
	mg/l	lbs	mg/l	lbs	Geo. Mean
1	19.6	283.6	15.6	225.8	25.3
2	17.8	288.3	13.8	221.9	2.4
3	27.2	390.3	15.8	221.1	14.1
4	20.0	409.9	13.0	267.7	6.2
MAX	27.2	409.9	15.8	267.7	25.3

# 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

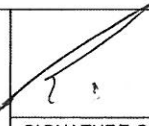
MONITORING PERIOD: 1/1/2016

TO 1/31/2016

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.	*****	*****		*****	12.6	13.1		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	DEG.C		5X Weekly	Grab
Dissolved Oxygen  1 - Final Effluent 00300	Sample meas.	*****	*****		2.4	*****	4.2		0		
	Permit reqmt.	*****	*****		Report daily minimum	*****	Report daily maximum	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5)  1 - Final Effluent 00310	Sample meas.	343.0	656.0		*****	21.2	46.0		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.	*****	*****		*****	349.0	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Biochemical Oxygen Demand (BOD5)  W - See Comments 00310	Sample meas.	409.9	*****		*****	27.2	*****		0		
	Permit reqmt.	1839 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		2X Monthly	24-Hr Composite

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 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	DATE
GRIEKD TEMPEL			907.506.0393	2016-02-08
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA   NUMBER	Y   M   D

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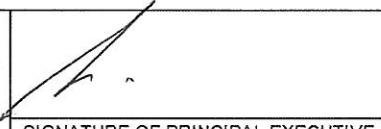
MONITORING PERIOD: 1/1/2016

TO 1/31/2016

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				
pH  1 - Final Effluent 00400	Sample meas.	*****	*****		6.7	*****	7.0		0		
	Permit reqmt.	*****	*****		6.5 instantaneous minimum	*****	8.5 instantaneous maximum	S.U.		5X Weekly	Grab
Total Suspended Solids  1 - Final Effluent 00530	Sample meas.	235.9	310.2		*****	14.6	18.0		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.	*****	*****		*****	349.0	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Total Suspended Solids  W - See Comments 00530	Sample meas.	267.7	*****		*****	15.8	*****		0		
	Permit reqmt.	1839 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		2X Monthly	24-Hr Composite
Ammonia Nitrogen (as N)  1 - Final Effluent 00610	Sample meas.	255.7			*****	16.0	16.0		0		
	Permit reqmt.	1165 monthly average	1655 daily maximum	lbs/day	*****	28.5 monthly average	40.5 daily maximum	mg/l		Monthly	24-Hr Composite

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<i>GRIEDO TEMPEL</i>		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	907.586.0393	2016-02-08
TYPED OR PRINTED			AREA   NUMBER	Y   M   D

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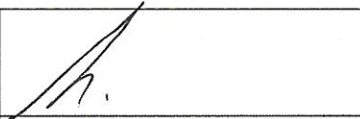
MONITORING PERIOD: 1/1/2016

TO 1/31/2016

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				
Hardness, Total (as CaCO3)  1 - Final Effluent 00900	Sample meas.	*****	*****		*****	84.0	84.0		0	Monthly	24-Hr Composite
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l			
Silver Total Recoverable  1 - Final Effluent 01079	Sample meas.	*****	*****		*****	N/D	N/D		0	See Permit Requirements	24-Hr Composite
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l			
Zinc Total Recoverable  1 - Final Effluent 01094	Sample meas.	*****	*****		*****	21.0	21.0		0	See Permit Requirements	24-Hr Composite
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l			
Lead Total Recoverable  1 - Final Effluent 01114	Sample meas.	*****	*****		*****	N/D	N/D		0	See Permit Requirements	24-Hr Composite
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l			
Copper Total Recoverable  1 - Final Effluent 01119	Sample meas.	0.30	0.30		*****	19.0	19.0		0	Monthly	24-Hr Composite
	Permit reqmt.	3.54 monthly average	7.63 daily maximum	lbs/day	*****	86.7 monthly average	187.0 daily maximum	ug/l			

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GRIEKA TEMPEL		 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	907.586.0395
TYPED OR PRINTED		AREA   NUMBER	Y   M   D

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PERMIT NUMBER: AK0022951

MONITORING PERIOD: 1/1/2016

TO 1/31/2016

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				
Chronic Toxicity  1 - Final Effluent TTOOO	Sample meas.	*****	*****		*****	N/A	N/A		N/A		
	Permit reqmt.	*****	*****		*****	5.1 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.	1.92	2.83		*****	*****	*****		0		
	Permit reqmt.	Report monthly average	4.9 daily maximum	MGD	*****	*****	*****			Continuous	Recorded
Fecal Coliform  1 - Final Effluent 74055	Sample meas.	*****	*****		*****	8.6	58.0		0		
	Permit reqmt.	*****	*****		*****	112 monthly geometric mean	224 daily maximum	cts/100 ml		2X Weekly	Grab
Fecal Coliform  W - See Comments 74055	Sample meas.	*****	*****		*****	25.3	*****		0		
	Permit reqmt.	*****	*****		*****	168 weekly geometric mean	*****	cts/100 ml		2X Weekly	Grab

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<i>GRIEKA TEMPEL</i>		907.586.0393	2016-02-08
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA   NUMBER	Y   M   D

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MONITORING PERIOD: 1/1/2016

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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				
BOD5 Minimum % Removal	Sample meas.	*****	*****		93.9	*****	*****		0		
K - Percent Removal 81010	Permit reqmt.	*****	*****		85 minimum	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal	Sample meas.	*****	*****		93.8	*****	*****		0		
K - Percent Removal 81011	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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<i>GRIEKO TEMPEL</i>		907.586.0393	2016-02-08
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA   NUMBER	Y   M   D