

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

CONTACT NAME: Catherine Carlson
 MAILING ADDRESS: 2009 Radcliffe
 Juneau, AK 99801

FACILITY: Auke Bay WWTF
 LOCATION: 11825 GLACIER HWY
 Juneau, AK 99801

PERMIT NUMBER: AKG572004

MONITORING PERIOD: 1/1/2015

TO 1/31/2015

OUTFALL / MONITORING POINT: 001A Discharge into Auke Bay

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Dissolved Oxygen 1 - Final Effluent 00300	Sample meas.	*****	*****		4.69	*****	*****		0		
	Permit reqmt.	*****	*****		2.0 daily minimum	*****	*****	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5) 1 - Final Effluent 00310	Sample meas.	9.77	18.85		*****	16.09	24.00		0		
	Permit reqmt.	40 monthly average	80 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		Monthly	Grab-Composite
Biochemical Oxygen Demand (BOD5) G - Influent 00310	Sample meas.	*****	*****		*****	200.00	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Biochemical Oxygen Demand (BOD5) W - See Comments 00310	Sample meas.	14.22	*****		*****	23.00	*****		0		
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
pH 1 - Final Effluent 00400	Sample meas.	*****	*****		7.30	*****	7.58		0		
	Permit reqmt.	*****	*****		6.0 daily minimum	*****	9.0 daily maximum	S.U.		3X Weekly	Grab
Total Suspended Solids 1 - Final Effluent 00530	Sample meas.	8.68	15.71		*****	14.56	23.00		0		
	Permit reqmt.	40 monthly average	80 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		Monthly	Grab-Composite
Total Suspended Solids G - Influent 00530	Sample meas.	*****	*****		*****	159.50	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Total Suspended Solids W - See Comments 00530	Sample meas.	13.59	*****		*****	22.50	*****		0		
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
Flow 1 - Final Effluent 50050	Sample meas.	0.07	0.09		*****	*****	*****				
	Permit reqmt.	Report monthly average	0.16 daily maximum	MGD	*****	*****	*****			5X Weekly	Measured
Total Residual Chlorine 1 - Final Effluent 50060	Sample meas.	*****	*****		*****	0.10	0.28		0		
	Permit reqmt.	*****	*****		*****	0.5 monthly average	1.0 daily maximum	mg/l		3X Weekly	Grab
Enterococci 1 - Final Effluent 61211	Sample meas.	*****	*****		*****	*****	*****				
	Permit reqmt.	*****	*****		*****	*****	Report daily maximum	cts/100 ml		See Permit Requirements	Grab
Fecal Coliform 1 - Final Effluent 74055	Sample meas.	*****	*****		*****	14.50	250.00		0		
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Monthly	Grab
BOD5 Minimum % Removal K - Percent Removal 81010	Sample meas.	*****	*****		92	*****	*****		0		
	Permit reqmt.	*****	*****		85 minimum percent removal	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal K - Percent Removal 81011	Sample meas.	*****	*****		95	*****	*****		0		
	Permit reqmt.	*****	*****		85 minimum percent removal	*****	*****	%		Monthly	Calculation

COMMENTS:

W = Average Weekly Effluent Limits;
 For Enterococci Bacteria monitoring requirements see Section 2.4 of the permit

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.

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 ensure 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
CATHERINE E CARLSON	<i>Catherine E Carlson</i>	(907) 586-0393	2015/02/09
TYPED OR PRINTED	OFFICER OR AUTHORIZED AGENT	AREA NUMBER	Y M D

AUKE BAY WASTEWATER TREATMENT FACILITY

Juneau, Alaska

January 2015

FLOWS		INFLUENT								EFFLUENT								MISCELLANEOUS								
DAY	DATE	INFLUENT MGD	WASTE SLUDGE MGD	TEMP °C	pH	D.O. mg/L	S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	FOG mg/L	NH3 mg/L	TEMP °C	pH	D.O. mg/L	S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	FOG mg/L	NH3 mg/L	FECAL COLIFORM /100 ml	Cl ₂ RESIDUAL mg/L	Cl ₂ USED Gal	Na ₂ SO ₃ USED LBS	
SUN	28	0.06	0.001500																							
MON	29	0.06	0.005000	8.00	7.77	7.32	304.00	147.32	640.00	310.15			9.10	7.50	5.40	14.00	6.78	20.00	9.69			42.00	0.18	2.00	3.10	
TUE	30	0.05	0.005000	12.10	7.70	4.98	188.00	83.69	240.00	106.84			11.60	7.49	6.49	30.00	13.36	19.00	8.46				0.04	2.00	2.48	
WED	31	0.06	0.005000	10.50	8.17	7.43							10.70	7.48	7.17								0.01	2.00	2.79	
THU	1	0.08	0.000750	8.60	7.73	8.49							10.70	7.50	6.14								0.11	2.00	3.41	
FRI	2	0.06	0.000750	12.10	7.93	7.32							11.20	7.48	6.15								0.28	2.00	4.03	
SAT	3	0.05	0.000750																					2.00	2.79	
SUN	4	0.05	0.001500																					2.00	3.10	
MON	5	0.05	0.001500	9.30	7.86	7.59	280.00	120.26	290.00	124.56			10.60	7.50	5.44	16.00	6.87	14.00	6.01			8.00	0.13	2.00	2.48	
TUE	6	0.06	0.000500	9.20	8.00	8.24	140.00	65.83	250.00	117.55			10.90	7.56	6.63	14.00	6.58	11.00	5.17				0.09	2.00	2.48	
WED	7	0.06	0.000500	12.90	7.98	7.08							11.70	7.54	6.96								0.18	2.00	2.48	
THU	8	0.08	0.000500	10.40	7.97	7.54							11.20	7.55	7.91								0.02	2.00	2.48	
FRI	9	0.06	0.001500	10.80	7.85	8.16							11.50	7.58	7.38								0.25	2.00	4.03	
SAT	10	0.05	0.001500																					2.00	2.79	
SUN	11	0.06	0.001500																					2.00	2.79	
MON	12	0.08	0.001500	11.30	8.20	7.52							10.90	7.56	7.23								0.11	2.00	2.48	
TUE	13	0.07	0.001500	9.40	7.70	8.33	168.00	99.75	190.00	112.81			10.60	7.54	7.83	23.00	13.66	22.00	13.06			250.00	0.08	2.00	3.72	
WED	14	0.07	0.001500	9.40	8.07	7.96	116.00	71.29	180.00	110.63			11.40	7.47	6.79	22.00	13.52	24.00	14.75				0.05	2.00	3.72	
THU	15	0.07	0.002000	8.40	7.71	8.42							11.10	7.41	7.18								0.17	2.00	2.48	
FRI	16	0.07	0.001500	10.00	7.96	7.90							10.80	7.45	6.34								0.17	2.00	2.48	
SAT	17	0.07	0.000750																				0.14	2.00	3.10	
SUN	18	0.07	0.000100																					2.00	4.34	
MON	19	0.07	0.002000	9.80	8.17	7.37							10.70	7.30	6.38									2.00	3.72	
TUE	20	0.08	0.000000	11.10	7.84	7.27	148.00	94.58	180.00	115.03			10.80	7.33	6.02	12.00	7.67	15.00	9.59			6.70	0.03	2.00	3.10	
WED	21	0.09	0.002000	7.70	7.61	9.05	94.00	73.83	130.00	102.10			9.60	7.47	8.29	20.00	15.71	24.00	18.85				0.05	2.00	4.03	
THU	22	0.08	0.002000	8.30	7.92	7.73							8.80	7.44	6.61								0.03	2.00	3.72	
FRI	23	0.08	0.002000	8.30	7.70	8.72							10.10	7.42	6.40								0.03	2.00	3.41	
SAT	24	0.08	0.001500																					2.00	3.27	
SUN	25	0.07	0.001500																					2.00	3.72	
MON	26	0.07	0.002000	9.80	8.06	6.90							9.90	7.38	4.99								0.01	2.00	4.03	
TUE	27	0.07	0.001500	10.30	8.31	6.10	200.00	113.58	230.00	130.62			10.30	7.31	4.82	4.80	2.73	9.60	5.45			3.30	0.10	2.00	3.41	
WED	28	0.07	0.002000	11.10	7.89	7.94	130.00	75.45	150.00	87.06			10.70	7.36	4.81	4.70	2.73	9.10	5.28				0.04	2.00	3.10	
THU	29	0.06	0.007500	7.70	7.71	7.80							10.00	7.36	5.27								0.02	2.00	3.72	
FRI	30	0.07	0.007500	11.90	7.97	7.81							11.30	7.34	4.69								0.03	2.00	4.03	
SAT	31	0.07	0.001500																					2.00	4.34	
TOTAL		2.10	0.05																						58.00	
MAXIMUM		0.09	0.01	12.90	8.31	9.05	280.00	120.26	290.00	130.62			11.70	7.58	8.29	23.00	15.71	24.00	18.85			250.00	0.28	2.00	4.34	
MINIMUM		0.05	0.00	7.70	7.61	6.10	94.00	65.83	130.00	87.06			8.80	7.30	4.69	4.70	2.73	9.10	5.17			3.30	0.01	2.00	2.48	
AVERAGE		0.07	0.00	9.90		7.78	159.50	89.32	200.00	112.54			10.67		6.38	14.56	8.68	16.09	9.77			14.50	0.10	2.00	3.32	
OF ANALYSIS		31	31	22	22	22	8	8	8	8	0	0	22	22	22	8	8	8	8	8	0	0	4	22	31	31

COMMENTS:

*GEOMETRIC MEAN WAS USED TO CALCULATE THE AVERAGE FECAL COLIFORM COLONIES

WEEK	WEEKLY AVERAGE						WEEKLY COLIFORM Geo. Mean
	BOD		TSS		CHLORINE		
	mg/l	lbs	mg/l	lbs	mg/l	Gal	
1	19.50	9.08	22.00	10.07	0.12	2.00	42.00
2	12.50	5.59	15.00	6.73	0.13	2.00	8.00
3	23.00	13.91	22.50	13.59	0.12	2.00	250.00
4	19.50	14.22	16.00	11.69	0.04	2.00	6.70
5	9.35	5.37	4.75	2.73	0.04	2.00	3.30
MAX	23.00	14.22	22.50	13.59	0.13	2.00	250.00

% REMOVAL	
B.O.D.	92
S.S.	95