

AUKE BAY WASTEWATER TREATMENT FACILITY
Juneau, Alaska

January 2016

FLOWS		INFLUENT											EFFLUENT										MISCELLANEOUS			
DAY	DATE	INFLUENT MGD	WASTE SLUDGE M3/D	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	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	FECAL COLIFORM /100 ml	Cl2 RESIDUAL mg/L	Cl2 USED GAL.	Na2SO3 USED LBS	
SUN	3	0.0541	0.0015																					1.00	2.48	
MON	4	0.0557	0.0020	10.9	7.8	8.1							11.0	7.1	5.5									1.00	1.86	
TUE	5	0.0577	0.0025	11.2	7.7	6.3	156.0	75.0	230.0	110.6			9.9	7.1	5.1	4.8	2.3	5.9	2.8			1.0	0.05	1.00	2.17	
WED	6	0.0528	0.0025	9.2	8.0	7.1	165.0	72.6	220.0	96.8			8.9	7.1	5.8	5.2	2.3	6.6	2.9				0.14	1.00	2.17	
THU	7	0.0505	0.0015	9.9	8.5	6.9							10.1	7.1	5.0								0.09	2.00	2.17	
FRI	8	0.0465	0.0025	9.7	7.6	7.3							10.8	7.0	5.7								0.19	1.00	2.17	
SAT	9	0.0543	0.0015																					1.00	1.86	
SUN	10	0.0498	0.0015																					2.00	2.48	
MON	11	0.0662	0.0020	10.0	8.3	7.1							10.2	7.0	4.6									1.00	2.79	
TUE	12	0.0660	0.0020	10.8	7.9	6.8	216.0	119.0	230.0	126.7			10.2	7.1	4.8	5.2	2.9	7.5	4.1			5.0	0.06	1.00	3.72	
WED	13	0.0757	0.0025	11.5	7.8	6.1	772.0	487.6	260.0	164.2			10.9	7.1	5.2	5.6	3.5	9.5	6.0				0.04	1.00	3.41	
THU	14	0.0787	0.0020	8.5	7.5	8.2							9.6	7.1	4.9								0.05	2.00	3.72	
FRI	15	0.0717	0.0020	10.1	8.2	6.9							9.9	7.1	5.0								0.09	2.00	4.96	
SAT	16	0.0633	0.0015																					2.00	4.65	
SUN	17	0.0534	0.0015																					2.00	3.41	
MON	18	0.0623	0.0025	10.0	7.8	7.6							10.5	7.1	5.0								0.19	1.00	3.72	
TUE	19	0.0592	0.0025	10.8	8.0	7.3	380.0	187.6	285.0	140.7			10.8	7.1	5.6	6.5	3.2	4.8	2.4			2.0	0.05	2.00	3.41	
WED	20	0.0613	0.0020	10.8	8.0	6.8	370.0	189.2	370.0	189.2			10.9	7.0	5.7	6.1	3.1	4.4	2.2				0.02	2.00	2.48	
THU	21	0.0530	0.0025	10.2	8.3	6.9							10.9	7.0	5.6								0.02	1.00	2.48	
FRI	22	0.0531	0.0025	9.6	8.1	7.6							10.0	7.1	5.1								0.12	2.00	2.48	
SAT	23	0.0609	0.0015																					1.00	2.17	
SUN	24	0.0684	0.0015																					2.00	2.17	
MON	25	0.0802	0.0015	8.8	7.6	8.2							9.8	7.1	5.7								0.05	2.00	2.48	
TUE	26	0.0749	0.0010	9.4	7.7	7.7	120.0	75.0	114.0	71.2			10.2	7.1	6.4	4.7	2.9	4.0	2.5			1.0	0.12	2.00	2.48	
WED	27	0.0714	0.0015	10.4	7.8	7.5	190.0	113.1	156.0	92.8			10.5	7.1	4.8	5.6	3.3	6.4	3.8				0.18	2.00	3.72	
THU	28	0.0651	0.0015	11.7	7.9	6.9							10.8	7.1	4.8								0.02	2.00	2.48	
FRI	29	0.0626	0.0020	10.2	7.9	7.9							10.7	7.1	6.5								0.18	2.00	2.48	
SAT	30	0.0594	0.0015																					1.00	2.79	
TOTAL		1.9331	0.0570																					48.00		
MAXIMUM		0.0876	0.0025	11.7	8.5	8.2	772.0	487.6	370.0	189.2			11.0	7.1	8.5	6.5	3.5	9.5	6.0			5.0	0.19	2.00	4.96	
MINIMUM		0.0465	0.0010	8.5	7.5	6.1	120.0	72.6	114.0	71.2			8.9	7.0	4.6	4.7	2.3	4.0	2.2			1.0	0.02	1.00	1.86	
AVERAGE		0.0624	0.0018	10.2		7.3	296.1	164.9	233.1	124.0			10.3		5.4	5.5	2.9	6.1	3.4			1.8	0.10	1.55	2.83	
NO.OF ANALYSIS		31	31	20	20	20	8	8	8	8	0	0	20	20	20	8	8	8	8	8	0	0	4	19	31	31

WEEK	WEEKLY AVERAGE						WEEKLY COLIFORM Geo. Mean
	BOD		TSS		CHLORINE		
	mg/l	lbs	mg/l	lbs	mg/l	Gal	
1	6.3	2.9	5.0	2.3	0.1300	1.1	1.0
2	8.5	5.1	5.4	3.2	0.0600	1.6	5.0
3	4.6	2.3	6.3	3.2	0.0800	1.6	2.0
4	5.2	3.2	3.2	3.1	0.1100	1.9	1.0
MAX	8.5	5.1	6.3	3.2	0.1300	1.9	5.0

% REMOVAL	
B.O.D.	97.4
S.S.	98.2

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
 OUTFALL / MONITORING POINT: 001A Discharge into Auke Bay

MONITORING PERIOD: 1/1/2016 TO 1/31/2016

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.	*****	*****		4.6	*****	*****				
	Permit reqmt.	*****	*****		2.0 daily minimum	*****	*****	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5) 1 - Final Effluent 00310	Sample meas.	3.4	6.0		*****	6.1	9.5				
	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.	*****	*****		*****	233.1	*****				
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Biochemical Oxygen Demand (BOD5) W - See Comments 00310	Sample meas.	5.1	*****		*****	8.5	*****				
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
pH 1 - Final Effluent 00400	Sample meas.	*****	*****		7.0	*****	7.1				
	Permit reqmt.	*****	*****		6.0 daily minimum	*****	9.0 daily maximum	S.U.		3X Weekly	Grab
Total Suspended Solids 1 - Final Effluent 00530	Sample meas.	2.9	3.5		*****	5.5	6.5				
	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.	*****	*****		*****	296.1	*****				
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Total Suspended Solids W - See Comments 00530	Sample meas.	3.2	*****		*****	6.3	*****				
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
Flow 1 - Final Effluent 50050	Sample meas.	0.062	0.088		*****	*****	*****				
	Permit reqmt.	Report monthly average	0.16 daily maximum	MGD	*****	*****	*****			5X Weekly	Measured
Total Residual Chlorine 1 - Final Effluent 50060	Sample meas.	*****	*****		*****	0.10	0.19				
	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.	*****	*****		*****	1.8	5.0				
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Monthly	Grab
BOD5 Minimum % Removal K - Percent Removal 81010	Sample meas.	*****	*****		97.4	*****	*****				
	Permit reqmt.	*****	*****		85 minimum percent removal	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal K - Percent Removal 81011	Sample meas.	*****	*****		98.2	*****	*****				
	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 CATHERINE CARLSON	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 907 586-0393	DATE 16/2/8