

AUKE BAY WASTEWATER TREATMENT FACILITY
Juneau, Alaska

August 2014

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	Cl2 RESIDUAL mg/L	Cl2 USED Gal	Na2SO2 USED LBS	
SUN	27	0.074	0.00300																						3.0	3.10
MON	28	0.072	0.00320	16.0	7.7	4.8							15.8	7.3	3.5								0.01	4.0	3.72	
TUE	29	0.101	0.00190	14.5	7.7	6.9	90.0	75.7	170.0	143.1			15.8	7.2	3.8	4.0	3.4	4.7	4.0			8.0	0.02	4.0	3.41	
WED	30	0.082	0.00200	15.2	7.6	6.9	290.0	197.1	1957.0	1330.2			15.0	7.3	3.8	5.0	3.4	9.3	6.3				0.01	3.0	4.03	
THU	31	0.073	0.00180	16.2	7.9	5.8							15.4	7.3	3.8								0.01	4.0	3.41	
FRI	1	0.070	0.00198	15.7	7.8	6.3							15.6	7.3	3.0								0.01	4.0	3.10	
SAT	2	0.066	0.00200																						4.0	3.10
SUN	3	0.060	0.00130																						4.0	2.79
MON	4	0.060	0.00220	16.2	7.7	5.3							16.9	7.3	3.7								0.14	4.0	2.79	
TUE	5	0.051	0.00180	15.9	7.7	5.0	184.0	78.1	220.0	93.4			16.2	7.3	3.9	6.0	2.5	7.2	3.1			13.0	0.28	3.0	4.03	
WED	6	0.057	0.00300	13.9	7.7	6.0	120.0	56.8	240.0	113.7			16.2	7.4	4.4	5.6	2.7	9.4	4.5				0.06	3.0	2.79	
THU	7	0.072	0.00300	16.3	7.8	5.7							16.1	7.4	4.3								0.08	3.0	2.79	
FRI	8	0.053	0.00300	14.7	7.6	5.2							16.6	7.4	4.5								0.00	3.0	3.10	
SAT	9	0.101	0.00300																						2.0	2.17
SUN	10	0.118	0.00225																						3.0	4.03
MON	11	0.064	0.00300	15.0	7.5	5.7							15.9	7.3	4.7								0.31	3.0	6.51	
TUE	12	0.081	0.00250	13.6	7.5	7.2	192.0	129.6	110.0	74.3			15.7	7.3	4.6	4.6	3.1	5.2	3.5			20.0	0.36	2.0	2.48	
WED	13	0.082	0.00300	15.8	7.5	6.5	60.0	41.0	77.0	52.6			15.9	7.3	4.3	6.0	4.1	6.8	4.6				0.19	2.0	2.79	
THU	14	0.092	0.00300	15.7	7.7	6.4							15.6	7.4	4.2								0.00	2.0	3.41	
FRI	15	0.110	0.00300	15.2	7.6	8.0							15.4	7.3	4.3								0.47	2.0	3.41	
SAT	16	0.088	0.00200																						3.0	4.65
SUN	17	0.121	0.00225																						3.0	3.72
MON	18	0.092	0.00300	15.4	7.6	6.7							15.0	7.3	4.1								0.40	3.0	4.65	
TUE	19	0.081	0.00300	14.5	7.5	6.9	150.0	101.2	110.0	74.2			15.3	7.3	4.2	6.0	4.0	5.5	3.7			8.3	0.01	2.0	3.72	
WED	20	0.075	0.00300	15.0	7.7	6.5	134.0	83.5	130.0	81.0			15.4	7.3	4.8	6.5	4.0	7.8	4.9				0.24	3.0	3.10	
THU	21	0.061	0.00400	16.6	7.8	6.0							15.5	7.4	4.1								0.23	2.0	3.41	
FRI	22	0.074	0.00300	13.5	7.5	7.1							15.6	7.4	3.6								0.12	2.0	2.17	
SAT	23	0.059	0.00150																						3.0	3.10
SUN	24	0.066	0.00225																						3.0	3.10
MON	25	0.068	0.00300	16.6	7.7	5.5							15.8	7.4	4.0								0.04	2.0	2.48	
TUE	26	0.077	0.00200	16.7	7.6	5.8	96.0	61.9	120.0	77.4			15.8	7.3	4.3	6.4	4.1	5.2	3.4			17.0	0.01	2.0	3.10	
WED	27	0.075	0.00200	16.7	7.7	5.9	120.0	74.9	230.0	143.6			15.7	7.3	4.4	6.8	4.2	4.4	2.7				0.25	2.0	3.10	
THU	28	0.073	0.00200	16.2	7.9	5.7							15.8	7.3	4.0								0.15	3.0	3.10	
FRI	29	0.081	0.00200	17.0	7.9	6.8							15.7	7.3	4.1								0.03	2.0	3.10	
SAT	30	0.071	0.00200																						2.0	2.48
TOTAL		2.699	0.087																						99.0	
MAXIMUM		0.121	0.004	17.0	7.9	8.0	290.0	197.1	1957.0	1330.2			16.9	7.4	4.8	6.8	4.2	9.4	6.3			20.0	0.47	4.0	6.51	
MINIMUM		0.051	0.001	13.5	7.5	4.8	60.0	41.0	77.0	52.6			15.0	7.2	3.0	4.0	2.5	4.4	2.7			8.0	0.00	2.0	2.17	
AVERAGE		0.077	0.002	15.5		6.2	143.6	90.0	336.4	218.3			15.7		4.1	5.7	3.6	6.6	4.1			12.4	0.14	2.8	3.31	
OF ANALYSIS		35	35	25	25	25	10	10	10	10	0	0	25	25	25	10	10	10	10	0	0	5	25	35	35	

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	7.0	5.1	4.5	3.4	0.01	3.71	8.00
2	8.3	3.8	5.8	2.6	0.11	3.14	13.0
3	6.0	4.1	5.3	3.6	0.27	2.43	13.0
4	6.7	4.3	6.3	4.0	0.20	2.57	8.3
5	4.8	3.1	6.6	4.2	0.10	2.29	17.0
MAX	8.3	5.1	6.6	4.2	0.27	3.71	17.0

% REMOVAL	
B.O.D.	98.1
S.S.	97.5

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

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 Juneau, AK 99801

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

PERMIT NUMBER: AKG572004

MONITORING PERIOD: 7/27/2014


TO 8/30/2014

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.	*****	*****		3.04	*****	*****				
	Permit reqmt.	*****	*****		2.0 daily minimum	*****	*****	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5) 1 - Final Effluent 00310	Sample meas.	4.1	6.3		*****	6.55	9.4				
	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.	*****	*****		*****	336.4	*****				
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Biochemical Oxygen Demand (BOD5) W - See Comments 00310	Sample meas.	5.1	*****		*****	8.3	*****				
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
pH 1 - Final Effluent 00400	Sample meas.	*****	*****		7.2	*****	7.4				
	Permit reqmt.	*****	*****		6.0 daily minimum	*****	9.0 daily maximum	S.U.		3X Weekly	Grab
Total Suspended Solids 1 - Final Effluent 00530	Sample meas.	3.6	4.2		*****	5.69	6.8				
	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.	*****	*****		*****	143.6	*****				
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Total Suspended Solids W - See Comments 00530	Sample meas.	4.2	*****		*****	6.6	*****				
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
Flow 1 - Final Effluent 50050	Sample meas.	0.077	0.121		*****	*****	*****				
	Permit reqmt.	Report monthly average	0.16 daily maximum	MGD	*****	*****	*****			5X Weekly	Measured
Total Residual Chlorine 1 - Final Effluent 50060	Sample meas.	*****	*****		*****	0.14	0.47				
	Permit reqmt.	*****	*****		*****	0.5 monthly average	1.0 daily maximum	mg/l		3X Weekly	Grab
Enterococci 1 - Final Effluent 61211	Sample meas.	*****	*****	31	*****	*****	31.0				
	Permit reqmt.	*****	*****		*****	*****	Report daily maximum	cts/100 ml		See Permit Requirements	Grab
Fecal Coliform 1 - Final Effluent 74055	Sample meas.	*****	*****		*****	12.4	20.0				
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Monthly	Grab
BOD5 Minimum % Removal K - Percent Removal 81010	Sample meas.	*****	*****		98.1	*****	*****				
	Permit reqmt.	*****	*****		85 minimum percent removal	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal K - Percent Removal 81011	Sample meas.	*****	*****		97.5	*****	*****				
	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

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
CATHERINE E CARLSON			9/12/14
TYPED OR PRINTED	OFFICER OR AUTHORIZED AGENT	AREA NUMBER	Y M D