

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: 11/1/2014

TO 11/30/2014

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.	*****	*****		3.86	*****	*****				
	Permit reqmt.	*****	*****		2.0 daily minimum	*****	*****	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5) 1 - Final Effluent 00310	Sample meas.	3.3	4.7		*****	5.8	8.0				
	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.	*****	*****		*****	251.3	*****				
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Biochemical Oxygen Demand (BOD5) W - See Comments 00310	Sample meas.	4.6	*****		*****	8.5	*****				
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
pH 1 - Final Effluent 00400	Sample meas.	*****	*****		7.1	*****	7.3				
	Permit reqmt.	*****	*****		6.0 daily minimum	*****	9.0 daily maximum	S.U.		3X Weekly	Grab
Total Suspended Solids 1 - Final Effluent 00530	Sample meas.	2.0	3.3		*****	3.4	5.0				
	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.	*****	*****		*****	176.1	*****				
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Total Suspended Solids W - See Comments 00530	Sample meas.	3.8	*****		*****	7.0	*****				
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
Flow 1 - Final Effluent 50050	Sample meas.	0.067	0.083		*****	*****	*****				
	Permit reqmt.	Report monthly average	0.16 daily maximum	MGD	*****	*****	*****			5X Weekly	Measured
Total Residual Chlorine 1 - Final Effluent 50060	Sample meas.	*****	*****		*****	0.12	0.38				
	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.	*****	*****		*****	4	10				
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Monthly	Grab
BOD5 Minimum % Removal K - Percent Removal 81010	Sample meas.	*****	*****		98	*****	*****				
	Permit reqmt.	*****	*****		85 minimum percent removal	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal K - Percent Removal 81011	Sample meas.	*****	*****		99	*****	*****				
	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 E 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 907 723 7849	DATE 11/12/14

AUKE BAY WASTEWATER TREATMENT FACILITY

Juneau, Alaska

November 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	Cl ₂ RESIDUAL mg/L	Cl ₂ USED Gal	Na ₂ SO ₃ USED LBS			
SUN	26	0.0667	0.0020																						2.0	2.79		
MON	27	0.0683	0.0020	14.1	7.7	6.5							14.0	7.3	4.6								10	0.03	3.0	3.10		
TUE	28	0.0635	0.0030	12.7	7.6	6.8	172	91	270	143			14.3	7.1	4.9	7	4	7	4					0.22	2.0	3.10		
WED	29	0.0662	0.0020	13.5	8.5	5.3	170	94	300	166			13.6	7.3	3.9	7	4	10	6					0.03	3.0	2.48		
THU	30	0.0717	0.0020	14.4	7.8	6.3							14.0	7.1	4.1									0.12	2.0	2.48		
FRI	31	0.0692	0.0020	13.6	7.8	5.8							14.3	7.2	4.5									0.01	2.0	2.48		
SAT	1	0.0706	0.0020																							2.0	3.41	
SUN	2	0.0650	0.0020																							2.0	3.10	
MON	3	0.0748	0.0020	14.2	7.9	5.2							14.4	7.1	4.0										0.19	2.0	2.48	
TUE	4	0.0827	0.0020	14.1	7.8	5.6	156	108	140	97			14.0	7.2	3.9	4	3	5	3			10	0.05	2.0	2.48			
WED	5	0.0782	0.0020	13.7	7.8	5.5	148	96	210	137			13.7	7.2	4.2	5	3	4	3					0.26	2.0	3.72		
THU	6	0.0782	0.0020	13.3	7.9	6.4							13.6	7.3	4.7									0.04	2.0	2.48		
FRI	7	0.0622	0.0040																					0.04	2.0	2.48		
SAT	8	0.0689	0.0015																							2.0	2.48	
SUN	9	0.0647	0.0020																							2.0	3.72	
MON	10	0.0637	0.0020	13.5	7.9	5.9							13.9	7.1	4.7											2.0	3.10	
TUE	11	0.0648	0.0020	12.6	7.7	5.5	164	89	240	130			14.1	7.2	4.5	3	2	4	2			4	0.38	2.0	2.79			
WED	12	0.0611	0.0020	13.0	7.7	5.5	140	71	290	148			13.3	7.2	4.5	5	3	8	4				0.08	2.0	2.76			
THU	13	0.0664	0.0020	13.6	7.9	5.5							13.4	7.2	4.6									0.13	2.0	2.79		
FRI	14	0.0655	0.0030	12.8	8.1	5.4							12.8	7.1	4.9									0.28	2.0	3.10		
SAT	15	0.0577	0.0000																					0.02	2.0	3.10		
SUN	16	0.0552	0.0000																							2.0	2.48	
MON	17	0.0593	0.0040	13.9	7.9	5.1							13.1	7.2	4.9									0.04	2.0	3.10		
TUE	18	0.0897	0.0015	11.7	8.5	5.4	267	155	460	267			13.2	7.2	5.0	4	2	7	4			1	0.02	2.0	3.10			
WED	19	0.0707	0.0015	12.5	7.7	6.3	156	92	220	130			12.9	7.2	4.7	4	2	8	5				0.05	3.0	2.79			
THU	20	0.0649	0.0020	13.8	7.6	5.8							13.1	7.1	4.7									0.21	2.0	3.10		
FRI	21	0.0754	0.0020	12.8	8.1	5.5							13.2	7.1	5.4									0.06	2.0	3.10		
SAT	22	0.0711	0.0015																							2.0	3.72	
SUN	23	0.0653	0.0015																							2.0	3.72	
MON	24	0.0661	0.0038	12.6	8.6	5.5							13.2	7.2	4.5									0.11	3.0	2.79		
TUE	25	0.0717	0.0020	11.3	7.8	6.2	162	97	170	102			13.1	7.2	4.6	1	1	4	2			1	0.03	2.0	3.72			
WED	26	0.0660	0.0020	11.0	7.6	7.1	216	119	280	154			12.7	7.1	4.9	1	1	6	3				0.18	3.0	3.41			
THU	27	0.0657	0.0020	9.4	7.6	7.0							12.0	7.1	5.2									0.14	2.0	3.10		
FRI	28	0.0635	0.0020	10.6	8.0	6.6							11.6	7.1	5.2									0.08	2.0	2.79		
SAT	29	0.0602	0.0015																							3.0	3.10	
SUN	30	0.0560	0.0015																							2.0	2.48	
TOTAL		2.0052	0.0723																							68.0		
MAXIMUM		0.0827	0.0040	14.2	8.6	7.1	267	155	460	267			14.4	7.3	5.4	5	3	8	5			10	0.38	3.0	3.72			
MINIMUM		0.0552	0.0000	9.4	7.6	5.1	140	71	140	97			11.6	7.1	3.9	1	1	4	2				0.02	2.0	1.86			
AVERAGE		0.0670	0.0020	12.7		5.9	176	103	251	145			13.2		4.7	3	2	6	3			4	0.12	2.3	2.95			
OF ANALYSIS		30	30	19	19	19	8	8	8	8	0	0	19	19	19	8	8	8	8	8	0	0	4	20	30	30		

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	9	5	7	4	0.08	2.29	10
2	5	3	5	3	0.12	2.29	10
3	6	3	4	2	0.18	2.29	4
4	8	4	4	2	0.08	2.14	1
5	5	3	1	1	0.11	2.38	1
MAX	9	5	7	4	0.18	2.38	10

% REMOVAL	
B.O.D.	98
S.S.	99