

**AUKE BAY WASTEWATER TREATMENT FACILITY- JUNEAU, ALASKA**

Juneau, Alaska

DECEMBER 2016

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	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	Enterro /100 ml	FECAL COLIFORM /100 ml	Cl <sub>2</sub> RESIDUAL mg/L	Cl <sub>2</sub> USED GAL	Na2SO3 USED LBS
THU	1	0.06239	0.00250	12.60	8.33	6.39							12.90	7.07	4.71								0.04	2.00	2.79
FRI	2	0.05545	0.00160	10.10	7.75	8.11							11.80	7.00	4.34								0.08	2.00	2.48
SAT	3	0.08098	0.00150																					2.00	2.48
SUN	4	0.06362	0.00150																					2.00	4.03
MON	5	0.05753	0.00200	11.70	7.78	7.31							12.2	7.01	5.42								0.14	2.00	2.79
TUE	6	0.05342	0.00200	11.70	7.75	7.03	190.0	84.7	230.0	102.5			11.9	7.00	5.40	8.8	3.0	16.0	7.1		41.0	21.0	0.01	2.00	2.79
WED	7	0.05983	0.00150	11.20	7.90	6.48	350.0	174.6	290.0	144.7			11.8	7.10	5.60	6.0	3.0	4.0	2.0				0.23	2.00	2.79
THU	8	0.04702	0.00250	11.80	7.92	6.75							12.9	7.01	4.63								0.01	2.00	2.79
FRI	9	0.05692	0.00300	12.90	7.60	6.39							12.1	7.09	5.33								0.31	2.00	2.48
SAT	10	0.05412	0.00150																					3.00	3.41
SUN	11	0.05323	0.00150																					2.00	2.79
MON	12	0.05032	0.00200	11.0	7.85	6.79							11.9	7.06	4.77								0.02	2.00	2.79
TUE	13	0.05335	0.00200	12.1	7.82	6.51	236.0	105.0	290.0	129.0			11.8	7.04	6.47	4.8	2.1	7.4	3.3			3.0	0.10	2.00	2.79
WED	14	0.04665	0.00250	10.3	7.12	7.91	590.0	229.5	690.0	268.4			11.5	6.98	5.04	6.0	2.3	7.0	2.7				0.18	2.00	2.79
THU	15	0.04821	0.00250	9.1	7.75	7.47							11.4	7.05	5.55								0.20	2.00	2.79
FRI	16	0.04240	0.00250	10.9	8.36	6.79							11.8	7.16	5.41								0.24	2.00	2.48
SAT	17	0.04617	0.00150																					2.00	1.86
SUN	18	0.06434	0.00150																					2.00	1.86
MON	19	0.05656	0.00150	9.8	7.74	7.98							10.7	7.04	4.45								0.15	1.00	3.10
TUE	20	0.06230	0.00300	9.0	7.54	7.99	244.0	126.8	290.0	150.7			9.6	6.86	5.51	6.4	3.3	6.5	3.4			15.0	0.31	3.00	2.48
WED	21	0.05621	0.00300	8.9	7.76	6.71	114.0	53.4	440.0	206.2			9.8	7.09	5.00	5.2	2.4	6.3	3.0				0.24	2.00	2.48
THU	22	0.04456	0.00300	10.8	8.72	6.88							11.0	7.14	5.34								0.28	2.00	2.48
FRI	23	0.04348	0.00300	9.6	7.57	7.81							11.1	7.11	5.77								0.21	2.00	2.48
SAT	24	0.04783	0.00150																					1.00	2.17
SUN	25	0.04575	0.00150																					2.00	2.48
MON	26	0.03840	0.00300	10.2	7.85	7.40							12.0	7.08	5.24								0.31	2.00	2.48
TUE	27	0.04201	0.00300	9.4	7.40	7.32	224.0	78.5	210.0	73.6			11.7	7.14	6.03	4.4	1.5	6.2	2.2			2.0	0.50	1.00	2.17
WED	28	0.04982	0.00300	9.0	7.97	6.94	160.0	66.5	148.0	61.5			11.6	7.12	5.90	8.8	3.7	6.1	2.5				0.02	2.00	2.17
THU	29	0.04503	0.00300	10.2	7.68	7.33							11.0	7.05	4.92								0.10	2.00	2.48
FRI	30	0.05642	0.00300	8.8	7.55	6.09							11.7	7.11	5.57								0.01	2.00	1.86
SAT	31	0.05200	0.00200																					1.00	3.10
TOTAL		1.63630	0.06900																					60.00	
MAXIMUM		0.08098	0.00300	12.9	8.72	8.11	590.0	229.5	690.0	268.4			12.9	7.16	6.47	8.8	3.7	16.0	7.1		41.0	21.0	0.50	3.0	4.0
MINIMUM		0.03840	0.00150	8.8	7.12	6.09	114.0	53.4	148.0	61.5			9.6	6.86	4.34	4.4	1.5	4.0	2.0		41.0	2.0	0.01	1.0	1.9
AVERAGE		0.05278	0.00223	10.5		7.11	263.5	114.9	323.5	142.1			11.6		5.29	6.1	2.7	7.4	3.3		41.0	6.6	0.17	1.9	2.6
NO. OF ANALYSIS		31	31	22	22	22	8	8	8	8		0	22	22	22	8	8	8	8	8	1	4	22	31	31

Dec 1-31 used to calculate monthly data only.

Dec 4-Dec 31 used to calculate the weekly averages only.

WEEK	WEEKLY AVERAGE						WEEKLY COLIFORM Geo. Mean
	BOD		TSS		CHLORINE		
	mg/l	lbs	mg/l	lbs	mg/l	Gal	
1	10.0	4.6	6.4	3.0	0.1400	2.1	21.0
2	7.2	3.0	5.4	2.2	0.1480	2.0	3.0
3	6.4	3.2	5.8	2.9	0.2380	1.9	15.0
4	6.2	2.4	6.6	2.6	0.1880	1.7	2.0
MAX WEEKLY AVG	10.0	4.6	6.6	3.0	0.2380	2.1	21.0

% REMOVAL	
B.O.D.	97.7
S.S.	97.7

**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: 12/1/2016

TO 12/31/2016

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.	*****	*****		4.3	*****	*****				
	Permit reqmt.	*****	*****		2.0 daily minimum	*****	*****	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5) 1 - Final Effluent 00310	Sample meas.	3.3	7.1		*****	7.4	16.0				
	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.	*****	*****		*****	323.5	*****				
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Biochemical Oxygen Demand (BOD5) W - See Comments 00310	Sample meas.	4.6	*****		*****	10.0	*****				
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
pH 1 - Final Effluent 00400	Sample meas.	*****	*****		6.9	*****	7.2				
	Permit reqmt.	*****	*****		6.0 daily minimum	*****	9.0 daily maximum	S.U.		3X Weekly	Grab
Total Suspended Solids 1 - Final Effluent 00530	Sample meas.	2.7	3.7		*****	6.1	8.8				
	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.	*****	*****		*****	263.5	*****				
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Total Suspended Solids W - See Comments 00530	Sample meas.	3.0	*****		*****	6.6	*****				
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
Flow 1 - Final Effluent 50050	Sample meas.	0.05	0.08		*****	*****	*****				
	Permit reqmt.	Report monthly average	0.16 daily maximum	MGD	*****	*****	*****			5X Weekly	Measured
Total Residual Chlorine 1 - Final Effluent 50060	Sample meas.	*****	*****		*****	0.2	0.5				
	Permit reqmt.	*****	*****		*****	0.5 monthly average	1.0 daily maximum	mg/l		3X Weekly	Grab
Enterococci 1 - Final Effluent 61211	Sample meas.	*****	*****		*****	*****	41				
	Permit reqmt.	*****	*****		*****	*****	Report daily maximum	cts/100 ml		See Permit Requirements	Grab
Fecal Coliform 1 - Final Effluent 74055	Sample meas.	*****	*****		*****	6.6	21.0				
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Monthly	Grab
BOD5 Minimum % Removal K - Percent Removal 81010	Sample meas.	*****	*****		98	*****	*****				
	Permit reqmt.	*****	*****		85 minimum percent removal	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal K - Percent Removal 81011	Sample meas.	*****	*****		98	*****	*****				
	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 PRINCIPLE EXECUTIVE OFFICE	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 evaluated 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 CARLSON/Wastewater Treatment Plant Operator		907 586-0393	12/01/10
TYPED OR PRINTED		AREA/NUMBER	YY/MM/DD