

AUKE BAY WASTEWATER TREATMENT FACILITY
Juneau, Alaska

February 2012

FLOWS													INFLUENT						EFFLUENT						MISCELLANEOUS		
DAY	DATE	INFLUENT MED	WASTE SLOUDGE MED	TEMP °C	pH	D.O. mg/L	SS mg/L	SS LBS	BOD mg/L	BOD LBS	TEMP °C	pH	D.O. mg/L	SS mg/L	SS LBS	BOD mg/L	BOD LBS	FECAL COLIFORM /100 ml	Cl. RESIDUAL mg/L	Cl. USED LBS	NazS03 USED LBS						
SUN	29	0.04543	0.00300	12.0	9.0	8.2	212	123	432	251	12.7	7.6	5.0	8	5	23	13	2	1.00	4.89	14.57						
MON	30	0.05480	0.00300	8.9	7.9	6.8	212	123	432	251	8.9	7.2	2.8	8	5	23	13	2	0.00	1.34	1.27						
TUE	31	0.06427	0.00300	9.9	8.3	7.2					10.2	7.4	3.8	8	5	23	13	2	0.1	2.82	4.45						
WED	1	0.06990	0.00300	8.9	8.5	7.3	212	123	432	251	9.2	7.6	4.2	8	5	23	13	2	1.00	2.68	4.65						
THU	2	0.09389	0.00000	9.2	9.0	8.1					9.2	7.6	4.5						0.10	2.01	3.10						
FRI	3	0.09120	0.00300	8.9	9.0	8.1					9.2	7.6	4.5						0.00	2.34	3.10						
SAT	4	0.05448	0.00450	8.9	8.5	7.2					8.9	7.3	4.1						0.04	4.02	3.41						
SUN	5	0.06379	0.00100	9.1	8.5	7.2					8.9	7.3	4.1						0.00	4.69	14.57						
MON	6	0.06018	0.00600	9.1	8.5	7.2					8.9	7.3	4.1						0.00	2.01	4.05						
TUE	7	0.06493	0.00450	8.9	9.0	7.6					9.6	7.4	2.8						0.06	2.01	2.65						
WED	8	0.06750	0.00300	8.9	9.0	7.6					9.6	7.4	2.8						0.01	4.69	4.65						
THU	9	0.06062	0.00300	9.0	8.2	8.2					9.5	7.2	3.1						0.01	4.02	4.03						
FRI	10	0.06391	0.00450	8.9	8.3	7.5					9.3	7.3	3.3						0.00	4.02	4.03						
SAT	11	0.04619	0.00300																0.00	1.55	4.03						
SUN	12	0.07430	0.00000	9.4	7.9	7.9					9.7	7.4	5.0						0.04	2.01	6.20						
MON	13	0.05852	0.00450	9.4	7.9	7.9					9.7	7.4	5.0						0.02	3.35	6.82						
TUE	14	0.06449	0.00300	12.0	8.2	7.2					12.7	7.4	3.3						0.01	4.02	7.75						
WED	15	0.06302	0.00300	12.0	8.2	7.2					12.7	7.4	3.3						0.02	3.35	4.86						
THU	16	0.03666	0.00300	11.4	8.3	6.8					12.1	7.3	3.3						0.21	3.35	4.36						
FRI	17	0.09680	0.00300																0.02	1.34	2.46						
SAT	18	0.04231	0.00300	10.1	8.1	7.6					10.9	7.4	3.5						0.05	2.01	2.17						
SUN	19	0.05419	0.00300	10.1	8.1	7.6					10.9	7.4	3.5						0.01	2.01	3.10						
MON	20	0.07521	0.00150	11.8	8.0	7.5					10.4	7.5	4.3						0.04	2.01	3.10						
TUE	21	0.07515	0.00300	11.8	8.0	7.5					10.4	7.5	4.3						0.08	3.35	3.72						
WED	22	0.05936	0.00300	10.4	8.1	8.2					10.9	7.4	4.3						0.12	3.35	4.65						
THU	23	0.06431	0.00300	10.4	8.1	8.2					10.9	7.4	4.3						0.01	3.35	4.96						
FRI	24	0.06913	0.00300																0.02	3.35	3.72						
SAT	25	0.04685	0.00300																								
TOTAL		1.77	0.084																								
MAXIMUM		0.0964	0.006	12.0	9.0	8.2	212	123	432	251	12.7	7.6	5.0	8	5	23	13	2	1.00	4.89	14.57						
MINIMUM		0.037	0.000	8.9	7.9	6.8	212	123	432	251	8.9	7.2	2.8	8	5	23	13	2	0.00	1.34	1.27						
AVERAGE		0.063	0.003	10.0	8.3	7.6	212	123	432	251	10.2	7.4	3.8	8	5	23	13	2	0.1	2.82	4.45						
NO OF ANALYSIS		28	28	13	13	13	1	1	1	1	13	13	13	1	1	1	1	1	25	28	28						

***GEOMETRIC MEAN WAS USED TO CALCULATE THE AVERAGE FECAL COLIFORM COLONIES**
On 1/30/2012 a TNC fecal was pulled at 0845 due to low Cl2.
The Chlorinator was fixed and the next pull was < than 2

WEEK	BOD			WEEKLY AVERAGE			WEEKLY		
	mg/l	lbs	mg/l	TSS	lbs	mg/l	CHLORINE	lbs	WEEKLY COLIFORM
1	23	13	8	5	5	23	2.4	2.4	2
2							0.01	3.3	
3							0.09	2.8	
4							0.05	2.8	
MAX	23	13	8	5	5	23		3	2

% REMOVAL	
BOD	95
SS	96

Permit number: AKG-57-1000-013	Expires: July 20, 2009	Submit this report to:	ADEC and EPA to the addresses on Part D 11 of the NPDES general permit.
ADEC File number: 1513.45.009			


Applicant Name: City and Borough of Juneau	Responsible party: Tom Trego/WW Utilities Superintendent
Address: 155 South Seward, Juneau, AK 99801	Phone / email: (907)586-0393
Facility: Auke Bay Wastewater Treatment Facility	Onsite Contact: Nathan McCombs Waste Water Supervisor
Location: Auke Bay, Juneau	Phone: (907)586-0393

Required Reporting Frequency Monthly	Discharge: Secondary treated wastewater discharged into Auke Bay	Sample Period			
		From:	01	29	2012
		To:	02	25	2012

Mixing Zone

Parameter		Min. Value	30 day Average	7 day Average	Max. Value	Number analyses	Number violations	Units	Frequency of Analysis	Sample Method
Fecal Coliform Bacteria (Edge of MZ)	Analytical Results						0	#/100 ml	Twice per year - 2/year	Grab
	Permit Limits	N/A	14	N/A	43	report	report			
Fecal Coliform Bacteria (Shoreline)	Analytical Results						0	#/100 ml	Twice per year - 2/year	Grab
	Permit Limits	N/A	NA	N/A	NA	report	report			
Dissolved Oxygen	Analytical Results						0	mg/l	Upon request by ADEC	Grab
	Permit Limits	6	N/A	N/A	17	report	report			
pH	Analytical Results						0	Std. Units	Upon request by ADEC	Grab
	Permit Limits	6.5	N/A	N/A	8.5	report	report			
Total Chlorine (if chlorine is used as disinfectant)	Analytical Results						0	mg/l	Twice per year - 2/year	Grab
	Permit Limits	N/A	N/A	N/A	0.0075	report	report			

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.

NAME, TITLE OF PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL, EXECUTIVE OFFICER OR AUTHORIZED AGENT		
Nathan McCombs Wastewater Treatment Supervisor		3/10/2012	907-586-0393
		DATE	TELEPHONE

COMMENT AND EXPLANATION OF ANY VIOLATIONS (REFERENCE ALL ATTACHMENT HERE)

CHECK HERE IF THERE WAS NO DISCHARGE DURING THE ENTIRE REPORTING PERIOD

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Facility: Auke Bay Wastewater Treatment Facility	Onsite Contact: Nathan McCombs Waste Water Supervisor
Location: Auke Bay, Juneau	Phone: (907)586-0760

Required Reporting Frequency Monthly	Discharge: Secondary treated wastewater discharged into Auke Bay	Sample Period			
		From:	01	29	2012
		To:	02	25	2012

Parameter	Min. Value	30 day Average	7 day Average	Max. Value	Number of Analyses	Number of Violations	Units	Frequency of Analysis	Sample Method
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Discharge 1

Flow Rate (effluent or influent)	Estmt'd/ Measure		0.063		0.094	28	0	mgd	Daily 5/week	Measured/ recorded
	Permit Limits	N/A	report	N/A	0.16	report	report			
Biochemical Oxygen Demand (influent)	Analytical Results		432	432	432	1	0	mg/l	1/month	Grab or Composite
	Permit Limits	N/A	report	report	report	report	report			
Biochemical Oxygen Demand (effluent)	Analytical Results		23	23	23	1	0	mg/l	1/month	Grab or Composite
	Permit Limits	N/A	30	45	60	report	report			
Biochemical Oxygen Demand (effluent)	Analytical Results		13	13	13	1	0	lbs/day	1/month	Grab or Composite
	Permit Limits	N/A	40	60	80.1	report	report			
Biochemical Oxygen Demand % removal	Analytical Results	95					0	%	1/month	Calculated
	Permit Limits	85%	N/A	N/A	N/A	report	report			
Total Suspended Solids (influent)	Analytical Results		212	212	212	1	0	mg/l	1/month	Grab or Composite
	Permit Limits	N/A	report	report	report	report	report			
Total Suspended Solids (effluent)	Analytical Results		8	8	8	1	0	mg/l	1/month	Grab or Composite
	Permit Limits	N/A	30	45	60	report	report			
Total Suspended Solids (effluent)	Analytical Results		5	5	5	1	0	lbs/day	1/month	Grab or Composite
	Permit Limits	N/A	40	60	80.1	report	report			
Total Suspended Solids % removal	Analytical Results	96					0	%	1/month	Calculated
	Permit Limits	85%	N/A	N/A	N/A	report	report			
Fecal Coliform Bacteria (effluent)	Analytical Results		2		2	1	0	#/100 ml	1/month	Grab
	Permit Limits	N/A	200	N/A	800	report	report			
Dissolved Oxygen (effluent)	Analytical Results	2.8				13	0	mg/l	1/month	Grab
	Permit Limits	2	N/A	N/A	N/A	report	report			
pH (effluent)	Analytical Results	7.2			7.6	13	0	Std. Units	3/week	Grab
	Permit Limits	6	N/A	N/A	9	report	report			
Total Residual Chlorine (effluent)	Analytical Results		0.10		1	25	0	mg/l	3/week	Grab
	Permit Limits	N/A	0.5	N/A	1	report	report			

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