

AUKE BAY WASTEWATER TREATMENT FACILITY
Juneau, Alaska

EPA REPORT

May 2010

		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	TEMP °C	pH	D.O. mg/L	S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	FECAL COLIFORM /100 ml	Cl ₂ RESIDUAL mg/L	Cl ₂ USED LBS	Na ₂ SO ₃ USED LBS
SUN	2	0.08674	0.0030	12.9	8.0	6.9					13.4	7.3	4.4							2.68	2.79
MON	3	0.05472	0.0045	13.7	7.8	7.0					13.3	7.4	4.7					0.00		2.68	3.10
TUE	4	0.03869	0.0045	12.0	7.8	7.5					14.3	7.4	4.2							2.01	2.48
WED	5	0.06320	0.0030	11.2	7.9	6.7					13.3	7.3	4.2					0.01		3.35	2.79
THU	6	0.08051	0.0060	11.8	8.9	7.6					13.8	7.3	4.9							2.01	3.10
FRI	7	0.03363	0.0030	11.9	7.9	6.9					12.6	7.4	3.0					0.00		2.68	2.79
SAT	8	0.05505	0.0030																	4.02	3.41
SUN	9	0.05754	0.0030																	2.68	3.41
MON	10	0.05552	0.0030	14.4	8.0	6.5					17.5	7.4	4.3					0.01		2.01	3.10
TUE	11	0.04766	0.0030	12.3	7.9	7.2					12.6	7.5	4.7							1.34	2.48
WED	12	0.06320	0.0030	12.4	8.0	6.6	290	153	346	182	14.4	7.4	4.3	4	2	22	12	7	0.00	2.01	3.10
THU	13	0.04500	0.0030	13.2	8.0	6.6					12.6	7.5	5.0							1.34	1.86
FRI	14	0.05224	0.0030	15.5	7.8	6.6					18.0	7.4	4.1					0.02		2.68	2.79
SAT	15	0.05987	0.0030	11.0	7.0	7.4					13.0	6.9	4.4							2.68	2.79
SUN	16	0.06112	0.0030	14.1	7.0	6.0					15.5	7.0	4.0							3.35	3.41
MON	17	0.05842	0.0035	11.1	7.4	7.0					13.4	6.9	4.6					0.00		2.68	3.10
TUE	18	0.05683	0.0035	13.4	7.6	6.9					16.4	7.2	4.0							2.01	3.41
WED	19	0.05729	0.0030	13.8	7.9	6.2					14.3	7.2	4.5					0.01		1.34	3.41
THU	20	0.03946	0.0030	13.6	7.7	6.8	212	70	322	106	15.1	7.2	4.1	10	3	16	5			2.01	2.79
FRI	21	0.05257	0.0030	16.8	7.7	5.4					18.8	7.2	3.2					0.17		3.35	1.55
SAT	22	0.05422	0.0030	12.6	7.9	6.1					13.7	7.3	4.4							2.68	2.79
SUN	23	0.06314	0.0030	12.4	7.7	6.3					13.0	7.3	4.9							2.68	2.79
MON	24	0.04494	0.0030	15.7	7.6	6.4					16.4	6.8	4.3					0.01		2.01	3.10
TUE	25	0.05110	0.0060	18.2	7.8	6.2					16.6	7.2	3.8							1.34	1.86
WED	26	0.06880	0.0030	18.1	7.8	6.5					16.0	7.2	4.3					0.00		1.34	1.86
THU	27	0.06861	0.0060	15.9	7.9	5.7					15.1	7.3	4.6							3.35	2.80
FRI	28	0.04408	0.0030	14.6	7.6	5.3					14.9	7.2	4.1					0.00		2.01	2.48
SAT	29	0.04915	0.0030	14.6	7.8	6.6					16.1	7.2	4.3							2.01	2.79
TOTAL		1.56330	0.09700																	66.33	
MAXIMUM		0.08674	0.00600	18.2	8.9	7.6	290	153	346	182	18.8	7.5	5.0	10	3	22	12	7	0.17	4.02	3.41
MINIMUM		0.03363	0.00300	11.0	7.0	5.3	212	70	322	106	12.6	6.8	3.0	4	2	16	5	7	0.00	1.34	1.55
AVERAGE		0.05583	0.00346	13.7	7.8	6.6	251	111	334	144	14.8	7.2	4.3	7	3	19	8	7	0.02	2.37	2.79

NO.OF ANALYSIS

28

2

2

2

2

26

2

2

2

2

1

12

COMMENTS:

*GEOMETRIC MEAN WAS USED TO CALCULATE THE AVERAGE FECAL COLIFORM COLONIES

WEEK	FLOW	WEEKLY AVERAGE						WEEKLY	
		BOD		TSS		CHLORINE		COLIFORM	
		mg/l	lbs	mg/l	lbs	mg/l	lbs	Geo. Mean	
1	0.05893					0.00	2.8		
2	0.05443					0.01	2.1		
3	0.05427	22.2	11.7	4.0	2.1	0.06	2.5	7.0	
4	0.05569			10.0	3.3	0.00	2.1		
MAX	0.05893	22.2	11.70	10.0	3.3	0.06	2.8	7.0	

% REMOVAL	
B.O.D.	94.3
S.S.	97.2

Permit number: AKG-57-1000-013	Expires: July 20, 2009	Submit this report to:	ADEC and EPA to the addresses on Part III B 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: Cort Franklin
Location: Auke Bay, AK	Phone: (907)586-0393

Required Reporting Frequency Monthly	Discharge: Secondary treated wastewater discharged into Auke Bay	Sample Period	
		From: 5/1/2010	To: 5/31/2010

Outfall 001

Parameter	Min. Value	Monthly Average	Weekly Average	Max. Value	Number of Analyses	Number of Violations	Units	Frequency of Analysis	Sample Method
Dissolved Oxygen (effluent) 00300 1	3.0				26	0	mg/l	1/month	Grab
	2.0	N/A	N/A	N/A	report	report			
Biochemical Oxygen Demand (influent) 00310 G		334	334	346	2	0	mg/l	1/month	Grab or Composite
	N/A	report	report	report	report	report			
Biochemical Oxygen Demand (effluent) 00310 W 00310 1		8	8	12	2	0	lbs/day	1/month	Grab or Composite
	N/A	40	60	80	report	report			
Biochemical Oxygen Demand (effluent) 00310 W 00310 1		19	19	22	2	0	mg/l	1/month	Grab or Composite
	N/A	30	45	60	report	report			
pH (effluent) 00400 1		6.8		7.5	26	0	Std. Units	3/week	Grab
	6.0	N/A	N/A	9.0	report	report			
Total Suspended Solids (influent) 00530 G		251	251	290	2	0	mg/l	1/month	Grab or Composite
	N/A	report	report	report	report	report			
Total Suspended Solids (effluent) 00530 W 00530 1		3	3	3	2	0	lbs/day	1/month	Grab or Composite
	N/A	40	60	80.1	report	report			
Total Suspended Solids (effluent) 00530 W 00530 1		7	7	10	2	0	mg/l	1/month	Grab or Composite
	N/A	30	45	60	report	report			
Fecal Coliform Bacteria (effluent) 31616 1		7	7	7	1	0	#/100 ml	1/month	Grab
	N/A	200	400	800	report	report			
Flow Rate (effluent or influent) 50050 1		0.0558	0.0589	0.0867	28	0	mgd	Daily 5/week	Measured/ recorded
	N/A	report	report	0.16	report	report			
Total Residual Chlorine (effluent) 50060 1		0.02	0.019	0.17	12	0	mg/l	3/week	Grab
	N/A	0.50	N/A	1.0	report	report			
Biochemical Oxygen Demand % removal 81010 K		94.3				0	%	1/month	Calculated
	85%	N/A	N/A	N/A	report	report			
Total Suspended Solids % removal 81011 K		97.2				0	%	1/month	Calculated
	85%	N/A	N/A	N/A	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 Tom Trego WW Superintendent	SIGNATURE OF PRINCIPAL, EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Nathan D. McCombs</i> In 6/10/2010 (907) 586-0393
	Lieu of Tom trego DATE TELEPHONE

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

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

Permit number: AKG-57-1000-013	Expires: July 20, 2009	Submit this report	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: Cort Franklin
Location: Auke Bay, Juneau	Phone: (907)586-0393

Required Reporting Frequency Monthly	Discharge: Secondary treated wastewater discharged into Auke Bay	From:	5/1/2010
		To:	5/31/2010

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							#/100 ml	Twice per year – 2/year	Grab
	Permit Limits	N/A	14	N/A	43	report	report			
Fecal Coliform Bacteria (Shoreline)	Analytical Results							#/100 ml	Twice per year – 2/year	Grab
	Permit Limits	N/A	NA	N/A	NA	report	report			
Dissolved Oxygen	Analytical Results							mg/l	Upon request by ADEC	Grab
	Permit Limits	6	N/A	N/A	17	report	report			
pH	Analytical Results							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							mg/l	Twice per year – 2/year	Grab
	Permit Limits	N/A	N/A	N/A	0.0075	report	report			

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NAME, TITLE OF PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL, EXECUTIVE OFFICER OR AUTHORIZED AGENT		
Tom Trego WW Superintendent	<i>Nathan D. McCombs</i>	6/10/2010	(907)586-0393
	In Lieu of Tom trego	DATE	TELEPHONE

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