

EPA REPORT

AUKE BAY WASTEWATER TREATMENT FACILITY
Juneau, Alaska

January 2012

DAY	DATE	FLOWS		TEMP °C	pH	INFLUENT						EFFLUENT						MISCELLANEOUS					
		INFLUENT MGD	WASTE MGD			DO mg/L	SS mg/L	SS LBS	BOD mg/L	BOD LBS	TEMP °C	pH	DO mg/L	SS mg/L	SS LBS	BOD mg/L	BOD LBS	FECAL COLIFORM /100 ml	RESIDUAL mg/L	CI LBS	NA2S2O3 LBS		
SUN	1	0.067	0.00000	8.8	7.4	7.1																	
MON	2	0.056	0.00150	8.8	7.4	7.1																	
TUE	3	0.059	0.00150	9.9	7.6	5.7	232			103	287	127	11.1	7.0	3.3	10	4			2	0.00	2.20	4.03
WED	4	0.053	0.00150	9.9	7.6	5.7	232			103	287	127	11.1	7.0	3.3	10	4				0.00	1.07	1.34
THU	5	0.066	0.00150	9.3	7.7	6.5							10.7	7.1	3.5						0.01	2.88	3.10
FRI	6	0.057	0.00300	9.3	7.7	6.5															0.17	1.34	3.10
SAT	7	0.068	0.00000																		0.37	8.04	3.72
SUN	8	0.048	0.00000																		4.69	3.10	3.10
MON	9	0.068	0.00300	9.1	7.8	6.8							10.8	7.2	3.8						0.00	4.02	4.65
TUE	10	0.055	0.00300	9.5	7.9	7.1							11.1	7.2	3.4						0.00	1.34	3.72
WED	11	0.083	0.00300	9.5	7.9	7.1															0.00	0.67	2.48
THU	12	0.079	0.00150	9.4	7.2	6.9							10.6	7.1	3.3						0.10	3.35	3.41
FRI	13	0.068	0.00200	9.4	7.2	6.9															0.14	4.02	4.65
SAT	14	0.049	0.02000																		5.36	2.79	4.65
SUN	15	0.053	0.00000																		3.35	3.35	3.72
MON	16	0.067	0.00150	7.4	7.6	8.3							9.9	7.0	4.8						0.01	3.35	3.72
TUE	17	0.083	0.00150	9.9	8.0	7.3							10.0	7.2	3.9						0.00	2.08	3.72
WED	18	0.056	0.00300	9.9	8.0	7.3															0.04	4.69	3.41
THU	19	0.071	0.00300	9.4	7.8	7.2															0.01	3.35	2.48
FRI	20	0.082	0.00300	9.4	7.8	7.2							9.8	7.1	4.1						0.01	3.35	4.96
SAT	21	0.030	0.00000																		1.86	2.01	3.91
SUN	22	0.062	0.00000																		2.01	1.86	3.91
MON	23	0.058	0.00850	7.7	8.3	7.2							9.0	7.9	3.8						0.01	2.68	3.10
TUE	24	0.066	0.00300	10.5	8.8	8.8							9.7	7.5	4.5						0.08	1.34	3.10
WED	25	0.049	0.00300	9.7	7.7	6.8							10.2	7.0	3.9						0.01	1.34	2.74
THU	26	0.059	0.00900																		1.34	1.34	2.74
FRI	27	0.068	0.00300	9.7	7.7	6.8															1.34	1.34	2.48
SAT	28	0.049	0.00300																		1.55	1.55	2.48
TOTAL		1.729	0.08300																		77.10	89.52	
MAXIMUM		0.083	0.02000	10.5	8.8	8.8	232			103	287	127	11.1	7.9	4.8	10	4				0.37	8.04	4.96
MINIMUM		0.030	0.00000	7.4	7.2	5.7	232			103	287	127	9.0	7.0	3.3	10	4				0.00	0.67	1.34
AVERAGE		0.062	0.00296	9.2	7.8	7.1	232			103	287	127	10.2	7.2	3.9	10	4				0.06	2.86	3.32
NO OF ANALYSIS		28	28	12	12	12	1			1	1	1	12	12	12	1	1				17	27	27

COMMENTS:
GEOMETRIC MEAN WAS USED TO CALCULATE THE AVERAGE FECAL COLIFORM COLONIES

WEEK	BOD			TSS			CHLORINE			WEEKLY COLIFORM		
	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	Geo Mean	Geo Mean	Geo Mean	
1	7.0	3.1	10.0	4.4	0.11	3.3	2.0					
2					0.05	3.3						
3					0.02	3.1						
4					0.03	1.8						
MAX	7.0	3.11	10	4	0.37	3	2					

% REMOVAL	
BOD	98
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
Location: Auke Bay, Juneau	Phone: (907)586-0760

Required Reporting Frequency Monthly	Discharge: Secondary treated wastewater discharged into Auke Bay	Sample Period			
		From:	1	1	2012
		To:	1	28	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							#/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	6.0	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			

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		2-10-12 DATE	() 586 - 0760 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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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)	Estm'd/ Measure		0.0617		0.083	28		mgd	Daily 5/week	Measured/ recorded
	Permit Limits	N/A	report	N/A	0.16	report	report			
Biochemical Oxygen Demand (influent)	Analytical Results		287	287	287	1		mg/l	1/month	Grab or Composite
	Permit Limits	N/A	report	report	report	report	report			
Biochemical Oxygen Demand (effluent)	Analytical Results		7	7	7	1		mg/l	1/month	Grab or Composite
	Permit Limits	N/A	30	45	60	report	report			
Biochemical Oxygen Demand (effluent)	Analytical Results		3	3	3	1		lbs/day	1/month	Grab or Composite
	Permit Limits	N/A	40	60	80.1	report	report			
Biochemical Oxygen Demand % removal	Analytical Results	98						%	1/month	Calculated
	Permit Limits	85%	N/A	N/A	N/A	report	report			
Total Suspended Solids (influent)	Analytical Results		232	232	232	1		mg/l	1/month	Grab or Composite
	Permit Limits	N/A	report	report	report	report	report			
Total Suspended Solids (effluent)	Analytical Results		10	10	10	1		mg/l	1/month	Grab or Composite
	Permit Limits	N/A	30	45	60	report	report			
Total Suspended Solids (effluent)	Analytical Results		4	4	4	1		lbs/day	1/month	Grab or Composite
	Permit Limits	N/A	40	60	80.1	report	report			
Total Suspended Solids % removal	Analytical Results	96						%	1/month	Calculated
	Permit Limits	85%	N/A	N/A	N/A	report	report			
Fecal Coliform Bacteria (effluent)	Analytical Results		2		2	1		#/100 ml	1/month	Grab
	Permit Limits	N/A	200	N/A	800	report	report			
Dissolved Oxygen (effluent)	Analytical Results	3.3				12		mg/l	1/month	Grab
	Permit Limits	2	N/A	N/A	N/A	report	report			
pH (effluent)	Analytical Results	7			7.9	12		Std. Units	3/week	Grab
	Permit Limits	6	N/A	N/A	9	report	report			
Total Residual Chlorine (effluent)	Analytical Results		0.06		0.37	17		mg/l	3/week	Grab
	Permit Limits	N/A	0.5	N/A	1	report	report			

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Nathan McCombs Wastewater Treatment Supervisor	 DATE: 2-10-12 TELEPHONE: () 586 - 0760

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