

AUKE BAY WASTEWATER TREATMENT FACILITY
Juneau, Alaska

JANUARY 2013

DAY	DATE	FLOWS										EFFLUENT										MISCELLANEOUS			
		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 RESIDUAL mg/L	CL USED Gal	MgSO3 USED LBS
SUN	30	0.075	0.000	11.7	7.6	7.5							10.3	6.8	5.6							1	0.03	5.00	3.10
MON	31	0.052	0.003	12.9	7.4	7.4							11.1	6.8	6.0								0.01	6.00	4.34
TUE	1	0.072	0.003	10.9	7.5	6.5							10.3	6.9	6.7								0.02	7.00	4.34
WED	2	0.056	0.003	14.0	7.5	6.6							10.6	6.8	6.2								0.02	5.50	2.79
THU	3	0.045	0.005	9.2	7.5	6.6							10.5	7.0	7.7								0.59	7.00	3.10
FRI	4	0.056	0.000																					5.50	3.10
SAT	5	0.061	0.000																					7.00	4.34
SUN	6	0.061	0.000																					7.00	4.34
MON	7	0.066	0.002	11.9	7.4	5.9							11.2	6.8	5.9								0.03	6.00	4.03
TUE	8	0.066	0.002	8.9	7.2	7.3							10.3	6.9	6.1								0.07	6.00	3.72
WED	9	0.051	0.003	9.2	7.8	7.6	108	46	153	65			10.1	6.9	5.6	6	3	9	4				0.01	4.00	9.30
THU	10	0.059	0.003	11.2	7.7	7.6							10.2	7.0	5.9								0.01	4.00	7.75
FRI	11	0.047	0.030	6.9	7.2	8.9							10.8	6.9	5.9					8			0.02	15.00	4.34
SAT	12	0.061	0.000																				0.02	0.00	4.03
SUN	13	0.074	0.000																					0.00	2.79
MON	14	0.106	0.003	11.6	7.4	8.3							11.1	6.9	5.2								0.01	5.00	2.48
TUE	15	0.118	0.015	7.7	7.3	9.9							9.5	6.9	7.3								0.01	5.00	5.89
WED	16	0.100	0.002	9.3	7.6	6.7							10.1	6.9	6.6								0.01	5.00	6.20
THU	17	0.093	0.000	9.2	7.0	9.0							10.1	6.7	7.9								0.19	5.00	6.20
FRI	18	0.077	0.000	9.4	7.4	8.2							8.2	6.8	6.5					5	8		0.08	15.00	9.30
SAT	19	0.057	0.000																					0.00	3.41
SUN	20	0.061	0.000																					0.00	3.10
MON	21	0.080	0.003	8.0	7.4	9.7							10.4	6.8	5.0								0.01	3.00	5.89
TUE	22	0.076	0.001	10.4	7.4	7.2							11.2	6.7	4.7								0.01	5.00	5.89
WED	23	0.060	0.003	10.5	7.5	7.3							12.5	6.9	5.0								0.02	4.00	6.20
THU	24	0.063	0.003	9.9	7.2	7.0							11.5	6.9	4.8								0.01	5.00	5.27
FRI	25	0.070	0.003	9.9	7.7	7.8							9.7	6.9	4.2								0.07	20.00	9.30
SAT	26	0.067	0.000																					4.50	6.82
TOTAL		1.916	0.088																					161.00	
MAXIMUM		0.118	0.030	14.0	7.8	9.9	108	46	153	65			12.5	7.0	7.9	6	3	9	4			1	0.59	20.00	9.30
MINIMUM		0.045	0.000	6.9	7.0	5.9	108	46	153	65			8.2	6.7	4.2	6	3	9	4			1	0.01	0.00	2.48
AVERAGE		0.068	0.003	10.1	7.4	7.6	108	46	153	65			10.5	6.9	5.9	6	3	9	4			1	0.06	5.75	4.99
OF ANALYSIS		28	28	20	20	20	1	1	1	1			20	20	20	1	1	1	1			1	21	28	28

% REMOVAL	
B.O.D.	94
S.S.	94

WEEK	BOD			TSS			CHLORINE			COLIFORM		
	mg/l	lbs	%	mg/l	lbs	%	mg/l	gal	Geo. Mean	WEEKLY	WEEKLY	WEEKLY
1	9	4	6	0.13	6.07	1	0.13	6.07	1			
2	9	4	6	0.04	6.00	1	0.04	6.00	1			
3	9	4	6	0.06	5.00	1	0.06	5.00	1			
4	9	4	6	0.02	5.93	1	0.02	5.93	1			
MAX	9	4	6	0.13	6.07	1	0.13	6.07	1			

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

COMMENTS:

Permit number: AKG-57-1000-013 Expires: October 31, 2017 Submit this report to: ADEC and EPA to the addresses on Part D
 ADEC File number: 1513.45.009

Applicant Name: City and Borough of Juneau
Address: 155 South Seward, Juneau, AK 99801
Facility: Auke Bay Wastewater Treatment Facility
Location: Auke Bay, Juneau
Responsible party: Tom Trege/W Utilities Superintendent
Onsite Contact: Nathan McCombs
Phone / email: (907)586-0393
Phone: (907)586-0393
Required Reporting Frequency Monthly
Discharge: Secondary treated wastewater discharged into Auke Bay
From: 12 **To:** 26
Sample Period
 2012 2013

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	N/A	report	N/A	0.0684	0.1177	28	mgd	Daily	Measured/ recorded
Biochemical Oxygen Demand (influent)	Permit Limits	N/A	report	report	report	report	1	mg/l	1/month	Grab or Composite
Biochemical Oxygen Demand (effluent)	Analytical Results	153	153	153	153	153	1	mg/l	1/month	Grab or Composite
Biochemical Oxygen Demand (effluent)	Analytical Results	9	9	9	9	9	1	mg/l	1/month	Grab or Composite
Biochemical Oxygen Demand (effluent)	Permit Limits	N/A	report	report	report	report	1	mg/l	1/month	Grab or Composite
Biochemical Oxygen Demand (effluent)	Analytical Results	30	45	60	30	45	1	mg/l	1/month	Grab or Composite
Biochemical Oxygen Demand (effluent)	Permit Limits	N/A	report	report	report	report	1	mg/l	1/month	Grab or Composite
Biochemical Oxygen Demand (effluent)	Analytical Results	4	4	4	4	4	1	lbs/day	1/month	Grab or Composite
Biochemical Oxygen Demand (effluent)	Permit Limits	N/A	report	report	report	report	1	lbs/day	1/month	Grab or Composite
Biochemical Oxygen Demand (effluent)	Analytical Results	94	N/A	N/A	94	N/A	report	%	1/month	Calculated
Biochemical Oxygen Demand (effluent)	Permit Limits	N/A	report	report	report	report	1	%	1/month	Calculated
Total Suspended Solids (influent)	Analytical Results	108	108	108	108	108	1	mg/l	1/month	Grab or Composite
Total Suspended Solids (influent)	Permit Limits	N/A	report	report	report	report	1	mg/l	1/month	Grab or Composite
Total Suspended Solids (effluent)	Analytical Results	6	6	6	6	6	1	mg/l	1/month	Grab or Composite
Total Suspended Solids (effluent)	Permit Limits	N/A	report	report	report	report	1	mg/l	1/month	Grab or Composite
Total Suspended Solids (effluent)	Analytical Results	3	3	3	3	3	1	lbs/day	1/month	Grab or Composite
Total Suspended Solids (effluent)	Permit Limits	N/A	report	report	report	report	1	lbs/day	1/month	Grab or Composite
Total Suspended Solids (effluent)	Analytical Results	85%	N/A	N/A	85%	N/A	report	%	1/month	Calculated
Total Suspended Solids (effluent)	Permit Limits	N/A	report	report	report	report	1	%	1/month	Calculated
Fecal Coliform Bacteria (effluent)	Analytical Results	1	1	1	1	1	1	#/100 ml	1/month	Grab
Fecal Coliform Bacteria (effluent)	Permit Limits	N/A	report	report	report	report	1	#/100 ml	1/month	Grab
Dissolved Oxygen (effluent)	Analytical Results	4.2	20	20	4.2	20	1	mg/l	1/month	Grab
Dissolved Oxygen (effluent)	Permit Limits	N/A	report	report	report	report	1	mg/l	1/month	Grab
pH (effluent)	Analytical Results	6.7	7.0	7.0	6.7	7.0	20	Std. Units	3/week	Grab
pH (effluent)	Permit Limits	N/A	report	report	report	report	20	Std. Units	3/week	Grab
Total Residual Chlorine (effluent)	Analytical Results	0.06	0.6	0.6	0.06	0.6	21	mg/l	3/week	Grab
Total Residual Chlorine (effluent)	Permit Limits	N/A	report	report	report	report	21	mg/l	3/week	Grab

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
 Nathan McCombs Wastewater Treatment Supervisor
 DATE: 8-11-13
 (907) 586-0393 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: October 31, 2017	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)586-0393

Required Reporting Frequency Monthly	Discharge: Secondary treated wastewater discharged into Auke Bay
From: 2012	To: 2013
12	1
30	26
Sample Period	

Parameter	Min. Value	30 day Average	7 day Average	Max. Value	Number violations	Units	Frequency of Analysis	Sample Method
Bacteria (Edge of MZ)	N/A	14	N/A	43	report	#/100 ml	Twice per year -	Grab
Fecal Coliform	N/A	N/A	N/A	NA	report	#/100 ml	Twice per year -	Grab
Bacteria (Shoreline)	N/A	N/A	N/A	NA	report	#/100 ml	Twice per year -	Grab
Dissolved Oxygen	N/A	N/A	N/A	N/A	report	mg/l	Upon request by ADEC	Grab
PH	Analytical Results	N/A	N/A	N/A	report	Std. Units	Upon request by ADEC	Grab
	Permit Limits	6.5	N/A	8.5	report			
Total Chlorine (if chlorine is used as disinfectant)	Analytical Results	N/A	N/A	N/A	report	mg/l	Twice per year -	Grab
	Permit Limits	N/A	N/A	0.01	report			

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NAME, TITLE OF PRINCIPAL EXECUTIVE OFFICER
Nathan McCombs
Supervisor

SIGNATURE OF PRINCIPAL, EXECUTIVE OFFICER OR AUTHORIZED AGENT
Nathan McCombs

DATE
8-16-13

TELEPHONE
(907) 586-0393

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

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

Mixing Zone