

Alaska Department of Environmental Conservation Monthly Discharge Monitoring Report (DMR)

CONTACT NAME: Samantha Stoughtenger
 MAILING ADDRESS: 2009 Radcliffe Rd
 Juneau, AK 99801

FACILITY: Salmon Creek Water Plant Backwash
 LOCATION: 3 mile Egan Drive
 Juneau, AK 99801

PERMIT NUMBER: AKG380005

MONITORING PERIOD: 6/1/2016

TO 6/30/2016

OUTFALL / MONITORING POINT: 001A Reverse Flow/Air Scrub

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Temperature (C) 1 - Final Effluent 00010	Sample meas.	*****	*****		*****	11.1	11.1		0	1	
	Permit reqmt.	*****	*****		*****	Instantaneous	Instantaneous maximum	DEG.C		Monthly	Grab
Turbidity 1 - Final Effluent 00070	Sample meas.	*****	*****		*****	26.9	26.9		0	1	
	Permit reqmt.	*****	*****		*****	Instantaneous	Instantaneous maximum	NTU		Monthly	Grab
Magnesium, total recoverable 1 - Final Effluent 00921	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Arsenic, Total Recoverable 1 - Final Effluent 00978	Sample meas.	*****	*****		*****	ND	ND		0	1	
	Permit reqmt.	*****	*****		*****	Instantaneous	Instantaneous maximum	ug/l		Monthly	Grab
Iron, Total Recoverable 1 - Final Effluent 00980	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <i>SAMANTHA STOUGHTENGER</i> <i>UTILITIES SUPERINTENDENT</i>	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.	TELEPHONE 9075860393	DATE 6/07/15
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	AREA NUMBER	Y M D

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MONITORING PERIOD: 6/1/2016

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OUTFALL / MONITORING POINT: 001A Reverse Flow/Air Scrub

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Zinc Total Recoverable 1 - Final Effluent 01094	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Lead Total Recoverable 1 - Final Effluent 01114	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Copper Total Recoverable 1 - Final Effluent 01119	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Manganese, Total Recoverable 1 - Final Effluent 11123	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Chloride 1 - Final Effluent 46225	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		2X Annually	Grab

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TO 6/30/2016

OUTFALL / MONITORING POINT: 001A Reverse Flow/Air Scrub

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Flow 1 - Final Effluent 50050	Sample meas.	0.027	0.047	MGD	*****	*****	*****		0	Continuous	Recorded
	Permit reqmt.	Report monthly average	Report daily maximum		*****	*****	*****		Continuous		
Sulfate 1 - Final Effluent 81020	Sample meas.	*****	*****		*****			mg/l	0		Grab
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum		2X Annually		

COMMENTS:

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 PRINCIPAL EXECUTIVE OFFICER <i>SAMANTHA SLOUGHTENGER</i> UTILITIES SUPERINTENDENT	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.	TELEPHONE 9075860393	DATE 16/07/15
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 LOCATION: 3 mile Egan Drive
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PERMIT NUMBER: AKG380005

MONITORING PERIOD: 6/1/2016

TO 6/30/2016

OUTFALL / MONITORING POINT: 001B Enhanced Flux Cleaning

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
pH 1 - Final Effluent 00400	Sample meas.	*****	*****		6.90	6.90	6.90		0	1	
	Permit reqmt.	*****	*****		6.5 instantaneous minimum	Instantaneous	8.5 instantaneous maximum	S.U.		Monthly	Grab
Salinity 1 - Final Effluent 00480	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	PPTH		2X Annually	Grab
Ammonia Nitrogen (as N) 1 - Final Effluent 00610	Sample meas.	*****	*****		*****	No SX - Lab error	No SX - Lab error		1	1	
	Permit reqmt.	*****	*****		*****	Instantaneous	Instantaneous maximum	mg/l		Monthly	Grab
Magnesium, total recoverable 1 - Final Effluent 00921	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Arsenic, Total Recoverable 1 - Final Effluent 00978	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	10 daily maximum	ug/l		2X Annually	Grab

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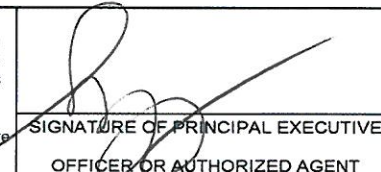
MONITORING PERIOD: 6/1/2016

TO 6/30/2016

OUTFALL / MONITORING POINT: 001B Enhanced Flux Cleaning

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Iron, Total Recoverable 1 - Final Effluent 00980	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Zinc Total Recoverable 1 - Final Effluent 01094	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Lead Total Recoverable 1 - Final Effluent 01114	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Copper Total Recoverable 1 - Final Effluent 01119	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab
Manganese, Total Recoverable 1 - Final Effluent 11123	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		2X Annually	Grab

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OUTFALL / MONITORING POINT: 001B Enhanced Flux Cleaning

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Chloride 1 - Final Effluent 46225	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		2X Annually	Grab
Total Residual Chlorine 1 - Final Effluent 50060	Sample meas.	*****	*****		*****	ND	ND		0	1	
	Permit reqmt.	*****	*****		*****	0.0075 monthly average	Report daily maximum	mg/l		Monthly	Grab
Sulfate 1 - Final Effluent 81020	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		2X Annually	Grab

COMMENTS: The Ammonia sample was collected by CBJ on June 28th and given to the lab for analysis; the sample was prematurely disposed of therefore no lab result was obtained. See attached letter of non-compliance.

Mail this report when completed to ADEC, Division of Water, 555 Cordova Street, Anchorage, AK 99501-2617
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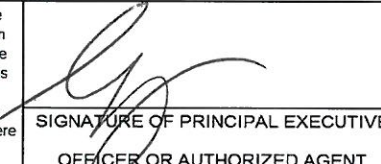
MONITORING PERIOD: 6/1/2016

TO 6/30/2016

OUTFALL / MONITORING POINT: 001C Chemical Clean in Place

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
pH 1 - Final Effluent 00400	Sample meas.	*****	*****							0	
	Permit reqmt.	*****	*****		6.5 instantaneous minimum	Report monthly average	8.5 instantaneous maximum	S.U.		Annually	Grab
Salinity 1 - Final Effluent 00480	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	PPTH		Annually	Grab
Ammonia Nitrogen (as N) 1 - Final Effluent 00610	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Annually	Grab
Magnesium, total recoverable 1 - Final Effluent 00921	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		Annually	Grab
Arsenic, Total Recoverable 1 - Final Effluent 00978	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	10 daily maximum	ug/l		Annually	Grab

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TO 6/30/2016

OUTFALL / MONITORING POINT: 001C Chemical Clean in Place

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Iron, Total Recoverable 1 - Final Effluent 00980	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		Annually	Grab
Zinc Total Recoverable 1 - Final Effluent 01094	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		Annually	Grab
Lead Total Recoverable 1 - Final Effluent 01114	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		Annually	Grab
Copper Total Recoverable 1 - Final Effluent 01119	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		Annually	Grab
Manganese, Total Recoverable 1 - Final Effluent 11123	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		Annually	Grab

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TO 6/30/2016

OUTFALL / MONITORING POINT: 001C Chemical Clean in Place

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Chloride 1 - Final Effluent 46225	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Annually	Grab
Total Residual Chlorine 1 - Final Effluent 50060	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	0.0075 monthly average	Report daily maximum	mg/l		Annually	Grab
Sulfate 1 - Final Effluent 81020	Sample meas.	*****	*****		*****					0	
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Annually	Grab

COMMENTS:

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TYPED OR PRINTED		OFFICER OR AUTHORIZED AGENT	AREA NUMBER	Y M D



Ms. Samantha Stoughtenger
Utilities Superintendent
City and Borough of Juneau
2009 Radcliffe Rd.
Juneau, AK 99801

July 12, 2016

Re: Handling issues with Salmon Creek Water Filtration Plant sample

Dear Ms. Stoughtenger,

This letter is to inform you of a sample handling issue that will not allow data to be reported for the analysis of ammonia on the Salmon Creek Water Filtration Plant/Enhanced Flux Maintenance (EFM) sample collected and delivered to our laboratory on June 28, 2016. The EFM sample was properly delivered to us by Evan Champion within 3 hours of sampling on that date and without incident. We were informed by our subcontract laboratory (Microbac Laboratories) on July 8 that the sample was inadvertently and prematurely discarded before the ammonia analysis was performed. The arsenic test associated with the Reverse Flow/Air sample from the same chain of custody was not impacted.

We immediately demanded an explanation and corrective action report from the laboratory as soon as we were informed of the issue. According to their report, Microbac has a policy of retaining samples for a minimum of 30 days after receipt and standard operating procedures for weekly disposal of samples based on that time frame. At some point after receipt, the EFM sample was incorrectly moved to the disposal section of their refrigeration unit before analysis had occurred and prematurely disposed. As a corrective action, Microbac has retrained their entire staff on sample handling and disposal procedures, and has installed dividers in their sample storage refrigerator so that samples can no longer be inadvertently moved to the wrong area and disposed of before analysis is conducted. If you are interested in Microbac's letter of corrective action I can provide that to you.

We sincerely apologize for this event, as we are aware that this was a monthly compliance sample that cannot be resampled within the month of June. We believe that this incident is an isolated case of human error by staff at Microbac and does not represent a trend in their performance. We have utilized them as a subcontract laboratory for 10 years and have not had an incidence of premature sample disposal prior to this. As our own interim response and in the interest of extreme caution, we will be retaining a split of the ammonia samples collected from the EFM site at our laboratory as a backup until we are satisfied that Microbac's corrective action has been effective.

Sincerely,

David Wetzel
President
Admiralty Environmental



Alaska Department of Environmental Conservation

Division of Water, Compliance and Enforcement Program

555 Cordova Street

Anchorage, Alaska 99501

Nationwide Toll Free: 1(877) 569-4114 Anchorage/International: (907) 269-4114

Fax: (907) 269-4604 E-mail address: dec-wqreporting@alaska.gov

NONCOMPLIANCE NOTIFICATION

GENERAL INFORMATION		PERMIT# (if any): AKG380005	
Owner or Operator: City and Borough of Juneau		Facility Name: Salmon Creek Water Treatment Plant	Facility Location: 3 Mile Egan Drive, Juneau, AK 99801
Person Reporting: Samantha Stoughtenger		Phone Numbers of Person Reporting: 907-586-0393	Reported How? (e.g. by phone): Called ADEC hot-line (907-269-4114)
Date/Time Event was Noticed: 7/8/2016 1:45PM		Date/Time Reported: 7/8/2016 3:00PM	Name of DEC Staff Contacted: Called ADEC hot-line (907-269-4114)
VERBAL NOTIFICATION MUST BE MADE TO ADEC WITHIN 24 HOURS OF DISCOVERY OF NONCOMPLIANCE			
INCIDENT DETAILS (attach additional sheets, lab reports, and photos as necessary)			
Period of Noncompliance	Start Date/Time (exact): 01 June 2016		End Date/Time (exact): 30 June 2016
If noncompliance has not been corrected, provide a statement regarding the anticipated time the noncompliance is expected to continue: N/A			
Estimated Quantity involved (volume or weight): 1 compliance sample			
Description of the noncompliance and its cause (be specific): Ammonia water sample was spilled at the contract laboratory. No additional samples were taken over the month. A result will not be reportable for the month of June 2016.			
Actions taken to reduce, eliminate, and prevent reoccurrence of noncompliance and Actual/Potential Impact on Environmental Health (describe in detail) (e.g. Supplied drinking water to nearby well owners and informed well owners not to drink from wells until further notice) Samples will be collected and provided to the contracted laboratory earlier in the month.			
Permit Condition Deviation (Identify each permit condition exceeded during the event.)			
Parameter (e.g. BOD pH)	Permit Limit	Exceedance (sample result)	Sample Date
Total Ammonia	Report	No result reportable	06/28/2016
Corrective Actions (Attach a description of corrective actions taken to restore the system to normal operation and to minimize or eliminate chances of recurrence.) Samples will be collected and provided to the contracted laboratory earlier in the month.			
Environmental Damage: (if yes, provide details below)		<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown
Actual /Potential Impact on Environment/Public Health (describe in detail) None known.			
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Name: Samantha Stoughtenger	Title: Utilities Superintendent	Signature:	Date: 07/08/2016
FORMS MUST BE SENT TO ADEC WITHIN FIVE DAYS OF BECOMING AWARE OF THE EVENT.			

Samantha Stoughtenger

From: Hope O'Neill <honeill@admiraltyenv.com>
Sent: Friday, July 08, 2016 1:45 PM
To: Evan Champion; Steve Locks
Cc: Samantha Stoughtenger; Dave Wetzel; Diana Cote; Izzie Felstead
Subject: AE 15404 - CBJ Salmn Creek filtration plant - Ammonia issue

Hi Evan,

In case you don't get a chance to give me a call back today, prior to analysis of the CBJ salmon creek filtration plant EFM sample collected on June 28, 2016, the sample bottle for ammonia was spilled in the laboratory. There is not enough sample remaining for analysis.

I understand from the permit this is required 1/month. Please let me know if you will need to do any additional sampling for the month of July, or are able to resample this any way – we will make sure that you are not charged for that analysis.

We apologize for the inconvenience this causes.

Regards,
Hope O'Neill
Manager, Admiralty Environmental
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(907) 463-4415