

Report Date: April 09, 2018 Report Number: 081740

Lions' Gate Fisheries Limited 612 Campbell St Tofino, BC V0R 2Z0

Dear Lions' Gate Fisheries Limited:

Re: Notice Letter, Permit 7952, Tofino

On December 06, 2017, Ministry of Environment and Climate Change Strategy, Environmental Protection Division staff conducted an inspection of your facility, Lions' Gate Fisheries Limited located at 612 Campbell Avenue Fish Processing Plant with authorization number 7952 under the *Environmental Management Act*. Ministry staff were accompanied on site by Andy Greig, Lions' Gate Fisheries Ltd.; Grayam Greig, Lions' Gate Fisheries Ltd.; Jack Greig, Lions' Gate Fisheries.

Inspection Details:

Requirement Description:	Environmental Management Act, Environmental Management Act
	6 (4): Subject to subsection (5), a person must not introduce waste into the environment in such a manner or quantity as to cause pollution.

Mailing Address: 2080-A Labieux Rd Nanaimo BC V9E 6J9

and Climate Change Strategy	Environmental Protection Division	2080-A Labieux Rd Nanaimo BC V9E 6J9	Facsimile: 250 751 3100 Website: <u>www.gov.bc.ca/env</u>				
Ministry of Environment	Compliance	Mailing Address:	Telephone: 250 751 3100				
	COD 1780 mg/L A single sample of the processing effluent and the boat hold effluent was collected; therefore, there are insufficient available data at this time to determine whether the effluent has substantially altered or impaired the usefulness of the environment. It should be noted that the recommended hold times were exceeded for the analyses for pH and that the pH results should not be considered to be reliable for assessing compliance with this section.						
	Parameter Result Unit pH 6.73 pH Total Suspended Solic Ammonia, Total (as N Nitrate (as N) 0.50 mg Nitrite (as N) 0.10 mg/ Total Nitrogen 177 mg Total Organic Nitroger E. coli 20 CFU/100mL Enterococcus 690 CFU BOD 1200 mg/L	ds 211 mg/L) 1.22 mg/L /L /L n 175 mg/L					
	pH 6.78 pH Total Suspended Solid Ammonia, Total (as N Nitrate (as N) 0.104 m Nitrite (as N) 0.0021 n Total Nitrogen 36.4 m Total Organic Nitroger E. coli 10 CFU/100mL Enterococcus >60000 BOD 337 mg/L COD 671 mg/L Boat Hold Effluent:) 7.34 mg/L lg/L ng/L g/L n 28.9 mg/L					
	Processing Effluent: Parameter Result Unit	S					
	report IR73999. At the discharged as separat has since been reroute follow up inspection re	e time of sampling, the process te waste streams through a con- ed to pass through the authoriz sport IR76129.	as assessed under separate inspection s water and boat hold water were mmon outfall. The boat hold effluent zed works; this was addressed in ficate of Analysis attached) were:				
	were offloaded to the	plant, and a second sample wa	first from the boat hold effluent as fish as taken of the process water after ks, prior to discharge through the				
Details/Findings:	Officer Laura Hunse ((site) located at 612 C Change (ECC) Canad from Fisheries and Oc discussed operations on December 5 was a processing was not ta	Officer) conducted an onsite in ampbell Street, Tofino, accom a Senior Enforcement Officer a eans (DFO), Canada. Upon an with the Officer and the site wa pproximately 0910h and depar king place at the time of the inst	and Climate Change Strategy (Ministry) ispection of Lions' Gate Fisheries Ltd. panied by an Environment and Climate and a Molecular Genetics Technician rrival at the site, Lions' Gate staff as toured and inspected. Arrival at site rture at approximately 1050h; spection. The Officer returned at otain samples from the site during				

Compliance:	Not Determined
Actions to be taken:	

Compliance History: 2018-01-08 IR76129 - Notice 2017-12-20 IR73999 - Advisory - Unauthorized Bypass (s2.2)

Please submit all annual/quarterly/monthly reports and data submissions to the Ministry's Routine Environmental Reporting Submission Mailbox at EnvAuthorizationsReporting@gov.bc.ca. More information about the reporting requirements may be found at http://www2.gov.bc.ca/gov/content/environment/waste-management/waste-discharge-authorization/data-and-report-submissions/routine-environmental-reporting-submission-mailbox.

Please be advised that this inspection report may be published on the provincial government website within 7 days.

Below are attachments related to this inspection.

If you have any questions about this letter, please contact the undersigned.

Yours truly,

Laura Hunse Environmental Protection Officer

CC:

Attachments: 1) 2017-12-06 L2032198_COA.PDF Analysis

Sampling Certificate of

Deliver via:	
Email: X Fax:	Mail:
Registered Mail:	Hand Delivery:

Ι

Mailing Address: 2080-A Labieux Rd Nanaimo BC V9E 6J9

Ministry of Environment	Compliance	Mailing Address:	Telephone	: 250 751 3100
and Climate Change Strategy	Environmental Protection Division	2080-A Labieux Rd Nanaimo BC V9E 6J9		250 751 3103 www.gov.bc.ca/env

DISCLAIMER:

Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.

To see the most up to date version of the regulations and codes of practices please visit http://www.bclaws.ca

If you require a copy of the original permit, please contact the inspector noted on this inspection record.

It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.



BC MINISTRY OF ENVIRONMENT -Compliance - Surrey ATTN: Laura Hunse 200-10470 152 Street Surrey BC V3R 0Y3 Date Received: 07-DEC-17 Report Date: 15-DEC-17 17:38 (MT) Version: FINAL

Client Phone: 604-582-5216

Certificate of Analysis

Lab Work Order #: L2032198 Project P.O. #: 50233908 Job Reference: 7952 C of C Numbers: Legal Site Desc:

Other Client: CL Information: EMS ID: E310569

Dean Watt, B.Sc. Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700 ALS CANADA LTD Part of the ALS Group An ALS Limited Company

Environmental 💭

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L2032198 CONTD.... PAGE 2 of 4 15-DEC-17 17:38 (MT) Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L2032198-1 Water 06-DEC-17 09:30 E310569_0M PROCESS EFFLUENT	L2032198-2 Water 06-DEC-17 09:05 E310569_0M BOAT HOLD		
Grouping	Analyte				
WATER					
Physical Tests	рН (рН)	6.78	6.73		
	Total Suspended Solids (mg/L)	139	211		
Anions and Nutrients	Ammonia, Total (as N) (mg/L)	7.34	1.22 DLDS		
	Nitrate (as N) (mg/L)	0.104	<0.50		
	Nitrite (as N) (mg/L)	0.0021	<0.10		
	Total Nitrogen (mg/L)	36.4	177		
	Total Organic Nitrogen (mg/L)	28.9	175		
Bacteriological Tests	E. coli (CFU/100mL)	<10 TNTC	MBER 20 MBER		
	Enterococcus (CFU/100mL)	>60000	690		
Aggregate Organics	BOD (mg/L) COD (mg/L)	337	1200		

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

L2032198 CONTD.... PAGE 3 of 4 15-DEC-17 17:38 (MT) Version: FINAL

Reference Information

QC Type Descr	iption	Parameter	Qualifier Applies to Sample Number(s)
Qualifiers for I	ndividual Parameters	Listed:	
Qualifier	Description		
DLDS	Detection Limit Raise	d: Dilution required due to high Dissolved S	Solids / Electrical Conductivity
DLM		ed due to sample matrix effects (e.g. cher	
MBER	•		eal range. Result calculated from most nearly acceptable value.
TNTC	,	nt at the maximum sample dilution analyze	5
est Method Re		Test Description	Method Reference**
	Matrix	Test Description	
BOD5-VA	Water	Biochemical Oxygen Demand- 5 day	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
oxygen demand dissolved oxyge	d (BOD) are determined en meter. Dissolved BO	by diluting and incubating a sample for a	B - "Biochemical Oxygen Demand (BOD)". All forms of biochemical specified time period, and measuring the oxygen depletion using a e sample through a glass fibre filter prior to dilution. Carbonaceous e prior to incubation.
COD-COL-VA	Water	Chemical Oxygen Demand by Colorime	tric APHA 5220 D. CHEMICAL OXYGEN DEMAND
	carried out using proce ng the closed reflux colo		Chemical Oxygen Demand (COD)". Chemical oxygen demand is
EC-SCREEN-VA	Water	Conductivity Screen (Internal Use Only)	APHA 2510
Qualitative ana	lysis of conductivity whe	re required during preparation of other tes	ts - e.g. TDS, metals, etc.
ECOLI-MF-ENV	-VA Water	E.coli by MF partition	APHA METHOD 9222G
colony counting with the approp	j. A known sample volui	ne is filtered through a 0.45 micron memb	"MF Partition". E.coli bacteria are enumerated by culturing and rane filter. The test involves an initial 24 hour incubation of the filter Iditional 4 hours) to quantify the E. coli bacteria. This method is
ENTERO-MF-EN	IV-VA Water	Enterococcus by membrane filtration	APHA METHOD 9230 C
Techniques". E membrane filte	nterococcus bacteria is r. The test involves a 48	enumerated by culturing and colony count	C. "Fecal Streptococcus and Enterococcus Groups - Membrane Filter ing. A known sample volume is filtered through a 0.45 micron priate growth medium and subsequent verification testing on positive
N-T-COL-VA	Water	Total Nitrogen in water by Colour	APHA4500-P(J)/NEMI9171/USGS03-4174
		dures adapted from APHA Method 4500-F lational Environmental Methods Index - Ne	P (J) "Persulphate Method for Simultaneous Determination of Total emi method 5735.
N-T-ORG-CALC	(TN)-VA Water	Total Organic Nitrogen (Calc from TN)	EN12260/J. ENVIRON. MONIT, 2005/EPA 300
Total Organic N	litrogen is a calculated p	parameter. Total Organic Nitrogen = Total	Nitrogen - {Ammonia + (Nitrate+Nitrite)}.
NH3-F-VA	Water	Ammonia in Water by Fluorescence	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
			s modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society nation of trace levels of ammonium in seawater", Roslyn J. Waston et
NO2-L-IC-N-VA	Water	Nitrite in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anion	s are analyzed by Ion C	hromatography with conductivity and/or U	V detection.
NO3-L-IC-N-VA	Water	Nitrate in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anion	s are analyzed by Ion C	hromatography with conductivity and/or U	V detection.
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value
This analysis is electrode	carried out using proce	dures adapted from APHA Method 4500-F	I "pH Value". The pH is determined in the laboratory using a pH
It is recommend	ded that this analysis be	conducted in the field.	
TSS-VA	Water	Total Suspended Solids by Gravimetric	APHA 2540 D - GRAVIMETRIC
Solids (TSS) ar Samples contai	e determined by filtering	g a sample through a glass fibre filter, TSS d solid content (i.e. seawaters, brackish wa	Solids". Solids are determined gravimetrically. Total Suspended is determined by drying the filter at 104 degrees celsius. aters) may produce a positive bias by this method. Alternate analysis

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Reference Information

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA
Chain of Custody Numbers:	
Additional Information:	
Average Cooler Temperature (E	Deg Celsius): 3
Sampling Agency Code: 10	
GLOSSARY OF REPORT TERI Surrogate - A compound that is a applicable tests, surrogates are	MS similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For

mg/kg wwt - milligrams per kilogram based on wet weight of sample. mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR). N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION. Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Workorder: L2032198

Report Date: 15-DEC-17 Page 1 of 6

			Workorder.	200210	0	Report Date: 15-		Γd	ige i oi o
•	200-1047	STRY OF ENVI 0 152 Street C V3R 0Y3	RONMENT - Com	pliance - Su	rrey				
	Laura Hu								
Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD5-VA		Water							
Batch R	3911922								
WG2679977-2 BOD	LCS			98.7		%		85-115	07-DEC-17
WG2679977-1 BOD	MB			<2.0		mg/L		2	07-DEC-17
COD-COL-VA		Water							
Batch R	3913546								
WG2684213-3 COD	LCS			104.4		%		85-115	14-DEC-17
WG2684213-6 COD	LCS			96.6		%		85-115	14-DEC-17
WG2684213-1 COD	MB			<20		mg/L		20	14-DEC-17
WG2684213-5 COD	MB			<20		mg/L		20	14-DEC-17
ECOLI-MF-ENV-V	A	Water							
Batch R	3907593								
WG2679993-2 E. coli	МВ			<1		CFU/100mL		1	07-DEC-17
ENTERO-MF-ENV	-VA	Water							
Batch R	3907847								
WG2679992-1 Enterococcus	DUP		L2032198-2 690	570		CFU/100mL	19	65	07-DEC-17
WG2679992-2 Enterococcus	MB			<1		CFU/100mL		1	07-DEC-17
N-T-COL-VA		Water							
WG2685345-2	3914369 LCS								
Total Nitrogen				93.8		%		75-125	15-DEC-17
WG2685345-1 Total Nitrogen	MB			<0.030		mg/L		0.03	15-DEC-17
NH3-F-VA		Water							
	3914231								
WG2684721-2 Ammonia, Tota				101.1		%		85-115	15-DEC-17
WG2684721-1 Ammonia, Tota				<0.0050		mg/L		0.005	15-DEC-17



Report Date: 15-DEC-17 Workorder: L2032198 Page 2 of 6 Test Reference Qualifier Units RPD Matrix Result Limit Analyzed NO2-L-IC-N-VA Water Batch R3907208 WG2680311-13 LCS Nitrite (as N) 99.99 % 90-110 08-DEC-17 WG2680311-17 LCS 100.1 Nitrite (as N) % 90-110 08-DEC-17 WG2680311-2 LCS Nitrite (as N) 99.5 % 90-110 08-DEC-17 WG2680311-21 LCS Nitrite (as N) 100.4 % 90-110 08-DEC-17 WG2680311-26 LCS Nitrite (as N) 100.4 % 90-110 08-DEC-17 WG2680311-5 LCS Nitrite (as N) 100.2 % 90-110 08-DEC-17 WG2680311-9 LCS Nitrite (as N) 99.8 % 90-110 08-DEC-17 WG2680311-1 MB < 0.0010 Nitrite (as N) mg/L 0.001 08-DEC-17 WG2680311-12 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 WG2680311-16 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 WG2680311-20 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 WG2680311-24 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 WG2680311-4 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 WG2680311-8 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 R3907631 Batch WG2680394-13 LCS Nitrite (as N) 99.8 % 90-110 08-DEC-17 WG2680394-18 LCS Nitrite (as N) 100.0 % 90-110 08-DEC-17 WG2680394-2 LCS Nitrite (as N) 98.6 % 90-110 08-DEC-17 WG2680394-5 LCS Nitrite (as N) 99.2 % 90-110 08-DEC-17 WG2680394-9 LCS Nitrite (as N) 99.9 % 90-110 08-DEC-17

Quality Control Report



Report Date: 15-DEC-17 Workorder: L2032198 Page 3 of 6 Test Reference Qualifier Units RPD Matrix Result Limit Analyzed NO2-L-IC-N-VA Water Batch R3907631 WG2680394-1 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 WG2680394-12 MB < 0.0010 Nitrite (as N) mg/L 0.001 08-DEC-17 WG2680394-16 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 WG2680394-4 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 WG2680394-8 MB Nitrite (as N) < 0.0010 mg/L 0.001 08-DEC-17 NO3-L-IC-N-VA Water Batch R3907208 WG2680311-13 LCS Nitrate (as N) 99.5 % 90-110 08-DEC-17 WG2680311-17 LCS Nitrate (as N) 99.3 % 90-110 08-DEC-17 WG2680311-2 LCS Nitrate (as N) 99.3 % 90-110 08-DEC-17 WG2680311-21 LCS Nitrate (as N) 99.3 % 90-110 08-DEC-17 WG2680311-26 LCS Nitrate (as N) 99.7 % 90-110 08-DEC-17 WG2680311-5 LCS Nitrate (as N) 99.1 % 90-110 08-DEC-17 WG2680311-9 LCS % Nitrate (as N) 99.2 90-110 08-DEC-17 WG2680311-1 MB < 0.0050 mg/L Nitrate (as N) 0.005 08-DEC-17 WG2680311-12 MB Nitrate (as N) < 0.0050 mg/L 0.005 08-DEC-17 WG2680311-16 MB Nitrate (as N) < 0.0050 mg/L 0.005 08-DEC-17 WG2680311-20 MB Nitrate (as N) <0.0050 mg/L 0.005 08-DEC-17 WG2680311-24 MB Nitrate (as N) < 0.0050 mg/L 0.005 08-DEC-17 WG2680311-4 MB Nitrate (as N) < 0.0050 mg/L 0.005 08-DEC-17

Quality Control Report

WG2680311-8 MB



			Workorder:	L203219	8	Report Date: 15	-DEC-17	Pa	ge 4 of 6
Fest		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-L-IC-N-VA		Water							
Batch R3	907208								
WG2680311-8 Nitrate (as N)	MB			<0.0050		mg/L		0.005	08-DEC-17
	907631								
WG2680394-13 Nitrate (as N)	LCS			100.3		%		90-110	08-DEC-17
WG2680394-18 Nitrate (as N)	LCS			100.5		%		90-110	08-DEC-17
WG2680394-2 Nitrate (as N)	LCS			99.7		%		90-110	08-DEC-17
WG2680394-5 Nitrate (as N)	LCS			100.1		%		90-110	08-DEC-17
WG2680394-9 Nitrate (as N)	LCS			99.6		%		90-110	08-DEC-17
WG2680394-1 Nitrate (as N)	MB			<0.0050		mg/L		0.005	08-DEC-17
WG2680394-12 Nitrate (as N)	MB			<0.0050		mg/L		0.005	08-DEC-17
WG2680394-16 Nitrate (as N)	МВ			<0.0050		mg/L		0.005	08-DEC-17
WG2680394-4 Nitrate (as N)	MB			<0.0050		mg/L		0.005	08-DEC-17
WG2680394-8 Nitrate (as N)	MB			<0.0050		mg/L		0.005	08-DEC-17
PH-PCT-VA		Water							
Batch R3	907655								
WG2679668-12 рН	CRM		VA-PH7-BUF	7.01		рН		6.9-7.1	08-DEC-17
WG2679668-7 рН	CRM		VA-PH7-BUF	7.00		рН		6.9-7.1	08-DEC-17
TSS-VA		Water							
Batch R3 WG2683079-2	913593 LCS								
Total Suspende	d Solids			97.3		%		85-115	13-DEC-17
WG2683079-1 Total Suspende	MB d Solids			<3.0		mg/L		3	13-DEC-17

Workorder: L2032198

Report Date: 15-DEC-17

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate
	DUP RPD N/A LCS SRM MS MSD ADE MB IRM CRM CCV CVS

	Woi	korder: L2032198	er: L2032198 Report Date: 15-DEC-17		Page 6 of 6		
Hold Time Exceedances:							
	Sample						
ALS Product Description	ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH by Meter (Automated)							
	1	06-DEC-17 09:30	08-DEC-17 11:09	0.25	50	hours	EHTR-FM
	2	06-DEC-17 09:05	08-DEC-17 11:09	0.25	50	hours	EHTR-FM
Legend & Qualifier Definition	ons:						
EHTR-FM: Exceeded ALS	S recommende	ed hold time prior to sar	nple receipt. Field Mea	asurement r	ecommended		
		ed hold time prior to sar	1 1				

EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry. EHT: Exceeded ALS recommended hold time prior to analysis.

Rec. HT: ALS recommended hold time (see units).

Notes*:

Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes. Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2032198 were received on 07-DEC-17 09:25.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

PV AND BACTERIOLOGICAL REQUISITION WATER, GENERAL CHEM

Province Of British Columbia

		vironment					Reg # 5023390# 8			
rgent	?	Csr No.	Office 10 Client CL		Sampling	Age	ency			
Study			Project N/A		Code 10		Name Vancouver Island, Nanaimo			
_ab		ALS Global			Address	-	2080-A Labieux Road			
	-	ct LAHUNSE HUNSE, I	AURA				LAURA HUNSE 757-3224			
Sampl	er	HUNSE, LAURA								
Signature				City		Nanaimo				
EMS Ic	i	E31056 9	Well Plate # 30%	~ 7	Postal Code					
Locatio	on. PE.	0424-BROWNO-BAY PA	CKING-DOMPANNUMBER	BELL	Number					
					Transferre	<u>л ос</u>				
nstruc	tions To	Lab								
State	e ww	Descriptor OT	Collection Method	RB		-				
	Class	Collection Start	Collection End	Dep	oth					
No.		YYY-MM-DD HH:MI		Jpper		Tide	Comment			
নি			25 12-06 9:30				PROCESS EFFLUENT			
12				_ <u>0</u> m						
3		2017-12-00 Ti	00 12-06 9:05	-0m			BOAT HOLD			
4							· · · · · · · · · · · · · · · · · · ·			
5	-									
6		<u>.</u>	· · · · · · · · · · · · · · · · · · ·							
GENE	RAL (250) mL PLASTIC)		SPE	CIFIC Test					
	Acidity pl	H 8.3			Obs Wel					
		Titration Curve				Cyanide: SAD (60 mL Plastic + NaOH)				
		: Total: pH 4.5	······				D (60 mL Plastic + NaOH)			
		: Phenolphthalein	Demand (POD)				al (125 mL Plastic, ZnAc & NaOH)			
<u> </u>	(500 mL) Bromide	Plastic) Biochemical Oxygen	i Demand (BOD)	.	Residue: Plastic)	Non	filterable (TSS) -Whole Bottle - 1 mg/L LOR (150 mL			
		Plastic) Carb. Biochem. Oxy	gen Demand (CBOD)			vii a	(250 mL Brown Plastic Bottle or Filter) Vol:			
	Carbon:		gen Demand (ODOD)	╢──		-	250 mL Brown Plastic Bottle or Filter) Vol:			
	Chloride	···· ·								
	Colour: T	rue		ORG						
	Fluoride				BTEX (2 X 40 mL glass vials, NaHSO4 or Na2S2O3, No headspace) VOC Full List (2 X 40 mL glass vials, NaHSO4 or Na2S2O3, No headspace)					
		Nitrate and Nitrite		_	Volc Full LISt (2 A 40 mL glass viais, NaHOU4 or Na2S203, No headspace) Volatile Hydrocarbons (VH) (2X40 mL glass viais, NaHSO4 or Na2S2O3, No headspace) Trinlatomethanes (THM) (2 X 40 mL glass viais, NaHSO4 or Na2S2O3, No					
.	Nitrogen:			╢						
x	Nitrogen: Nitrite				headspace)					
	pH Phosphorus: Diss. ortho-phosphate				VPH (2 X 40 mL glass vials, NaHSO4 or Na2S2O3, No headspace)					
		Plastic) Residue: Filterable	(TDS)	╢	EPH (2 X 100 mL Amber Glass, NaHSO4) PAH (2 X100 mL Amber Glass, NaHSO4)					
X			le (TSS) -Subsample (3 mg/L	┨┝───	LEPH/HEPH (Calc) (2 X 100 mL Amber Glass, NaHSO4)					
	LOR)			Oil & Grease (2 X 250 mL Amber Glass, 2 mL 1:1 HCl or 1:1 H2SO4)						
	*	Plastic) Residue: Nonfilterat Plastic) Residue: Total (TS)	lie, Fixed		Mineral Oil & Grease (2 x 250 mL Amber Glass, 2 mL 1:1 HCl or 1:1 H2SO4) Organochlorine Pesticides (OCP) (2 X 500 mL Amber Glass)					
	• • • • •	Conductance								
	Turbidity			-	Organophosphorus Pesticides (OPP) (2 X 500 mL Amber Glass)					
	Sulphate			┨——	Polychlorinated Biphenyls (PCBs) (2 X 500 mL Amber Glass) Chlorophenols (Tri, Tetra & Penta) (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)					
GENE	RAL NU	TRIENTS (125 mL AMBI	ER GLASS) - H2SO4	┓――			rinated (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)			
	Carbon:	<u> </u>			Phenolics, Onlonated (2 X 500 mL Amber Glass, Col1005 & NaHSO4) Phenolics, Non-Chlorinated (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)					
x		al Oxygen Demand (COD)				Phenols, Colorimetric (125 mL Amber Glass, H2SO4)				
<u>x</u>			à		Acid Extra	ctable	Herbicides (2 X 1 L Amber Glass, NaHSO4)			
^		n: Ammonia			Resin Acids (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)					
		Nitrogen: Total				Fatty Acids (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)				
	-	n: Total Kjeldahl (Calc)		BAC	BACTERIOLOGY					
X		n: Total Organic		<u> </u>	E. coli - N		·····			
	Phospho	orus: Total	<u> </u>		Enteroco					
GENE	RAL (12	5 mL AMBER GLASS) -	FIELD FILTER. H2SO4	⊩	Fecal col					
	•	DIC (Field Filter)			Fecal stre					
		DOC (FF, H2SO4)		-11	Total coli					
	Nitroger	n: Dissolved Kjeldahl (Calc) (Total coli	form	- MPN			
	Nitrogen: Total Dissolved (FF, H2SO4)		ОТН	OTHER Tests						
		orus : Total Dissolved (FF, H	12504)	┛			· · · · · · · · · · · · · · · · · · ·			
	ls: tot			}						
ligh				_ ──	<u> </u>					
		etal Pkg. (ICPMS) - HIGH (6		_						
		etal Pkg. (ICPMS) - LOW (6	0 mL Plastic) - HNO3							
		ercury - 40mL Glass, HCl		_			· · · · · · · · · · · · · · · · · · ·			
	Ha	ardness (60 mL Plastic) - HN	103	Smpl	No	E I F	ELD TEST Details Method Results Units			
META	LS: DIS	SOLVED			140.	rit	ELD TEST Details Method Results Units			
High										
		Aetal Pkg (ICPMS) - HIGH (6	60 mL Plastic)-Field Filter, HNO3	1(-2)			n17 3' 925Am 3			
			30 mL Plastic)-Field Filter, HNO3	19	DEC -	77	m J IZJAM C			
		Aercury - 40mL Glass, Field		1.						
		lardness (60 mL Plastic) - Fi		1						
		······································								

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