

ENVIRONMENTAL DYNAMICS INC. ATTN: Meghan Marjanovic 2195 - 2nd Ave Whitehorse YT Y1A 3T8 Date Received: 16-SEP-15 Report Date: 06-OCT-15 12:41 (MT) Version: FINAL

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #:L1673926Project P.O. #:NOT SUBMITTEDJob Reference:MOUNT NANSEN 15-Y-0146C of C Numbers:1Legal Site Desc:1

Comments: Please note ALS identified sample L1673926-1 was sublet to Nautilus Environmental for LC50 Rainbow Trout analysis.

Can Dang Senior 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 A Campbell Brothers Limited Company

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Environmental 💭

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID			
Grouping	Analyte				

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
** ALS test methods may inc	corporate mod	lifications from specified ref	erence methods to improve performance.

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

Chain of Custody Numbers:

1

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on dry 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.



ALS Environmental ATTN: Can Dang Suite 100-8081 Lougheed Hwy. Burnaby, BC V5A 1W9 Report Date: October 5, 2015 Work Order: 15738

Data Report

Species:Rainbow trout (Oncorhynchus mykiss)Protocol:EPS 1/RM/13 (Second Ed. with 2007 amendments)

Table 1.Results for the 96-h rainbow trout acute toxicity test.

Sample ID	Collection Date and Time	96-h LC50 (%v/v)
L1673926-1 LC-50	Sept 15, 2015 @ N/A	>100
L1673926-1 LC-50	Sept 15, 2015 @ N/ A	>100

N/A = Not Available.

The rainbow trout toxicity testing was conducted by HydroQual Laboratories (a division of Nautilus Environmental), Calgary, AB, due to limited availability of test fish at our Burnaby laboratory to perform this test.

The test met performance criteria and there were no deviations from the test method. The results presented in this report relate only to the sample tested and were based on test data provided by HydroQual Laboratories.

Josh Baker

Josh Baker, M.Sc. Environmental Chemist

Reviewed By: Edmund Canaria, R.P.Bio. Senior Reviewer



ATTN: Josh Baker Nautilus Environmental 8664 Commerce Court Burnaby , BC Canada V5A 4N7 Received: Report Date: Version: 2015/09/19 2015/09/29 FINAL

HydroQual Test Report

Client: Reference: Billing: NAU104 15-1232 WO #15738

Destalaret

Senior Verifier

Our liability is limited to the cost of the test requested. The test results only relate to the sample as received. No liability in whole or in part is assumed for the collection, handling or transport of the sample, application or interpretation of the test data or results.

HydroQual Laboratories Ltd., #4, 6125 12th Street SE, Calgary, Alberta, Canada T2H 2K1 Tel (403) 253-7121 fax (403) 252-9363 <u>www.hydroqual.ca</u>



Client: NAU104 **Result Summary** Reference: 15-1232-01-TRD Client: Nautilus Environmental; operation Burnaby Sample: L1673926-1 LC-50 WO #15738 Collection: collected on 2015/09/15 at not given by not given Receipt: received on 2015/09/19 at 1600 by DS/HKS/ML Containers: received 2 x 20L carboys at 14 °C, in damaged with no seals and no initials Description: type: water, collection method: not given Test: started on 2015/09/20 ; ended on 2015/09/24 Result: Endpoint Value Confidence Limits (95%) Method Calculated (96-hour) (%) lower upper Acute: LC50 >100 could not be calculated LC25 >100 could not be calculated (mortality) Notes: LC25 & LC50, concentrations lethal to 25% and 50% of the test population 100 Mortality (%) 75 50 25

25 0 control 6.3 13 25 50 100 Concentration (%)

The test data and results are authorized and verified correct.

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Test Conditions

Client: NAU104 Reference: 15-1232-01-TRD

Method:	Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout, 2000. Environment Canada, EPS 1/RM/13. Second Edition (amended May 2007).
	Trout 96-h Static Acute Test (WTR-ME-041)
	Oncorhynchus mykiss
-	Miracle Springs (Batch 20150826TR)
	25 days (must be ≥2 weeks)
Stock mortanty:	0.2% (seven days preceding testing)
Sample initial chemistry:	pH: 6.8; EC: 1549 (µS/cm @ 25°C); DO: 7 (mg/L); temperature: 15 °C hardness (mg CaC03/L): 790; colour: orange; odour: organic
Sample holding time:	5 days (must be \leq 5 days)
Sample storage:	4 ± 2°C in darkness
	The test was conducted in 22 L plastic pails with polyethylene liners
	14 Litres (depth of solution in each test vessel \geq 15cm)
Sample pre-treatment:	All test solutions and controls were pre-aerated for 30 minutes at 6.5 ±1 mL/min/L Dissolved oxygen in 100 % sample was 8.5 mg/L after pre-aeration
	The sample was not filtered or pH adjusted prior to or during testing
Loading density:	0.19 g/Litre (must be \leq 0.5 g/Litre)
	Dechlorinated City of Calgary water acclimated to test conditions
	5 effluent concentrations (6.3, 12.5, 25, 50, 100% (v/v) plus a negative control)
	One replicate per treatment; 10 fish per replicate
•	Fish are not fed 24 hours before test initiation and no feeding during test
	pH, conductivity, dissolved oxygen and temperature measured at test initiation and
	test termination
Aeration:	All treatments aerated at 6.5 ±1 mL/min/L by oil-free compressed air
	passed through airline tubes connected to disposable air stones
	Overhead full spectrum fluorescent lights
-	16h light:8h dark
Test temperature:	15±1°C
Endpoint:	Mortality, 96-h LC50 (with 95% confidence limits)
	The control had 100% survival (must \geq 90%)
	The control had 0 percent (%) stressed behaviour (must $\leq 10\%$)
Reference toxicant:	96-h test with Potassium Chloride (KCI) initiated September 21, 2015; current results
	(96-h LC50 and 95% confidence limits) = 0.60 (0.50-0.65) log (g/L KCl)
	historical results: (96-h LC50 and 95% confidence limits) = 0.56 (0.49-0.64) log (g/L KCI)
Note: Outlined sections are protocol	deviations explained on the comment page; v/v, volume per volume

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Test Data

Client: NAU104 Reference: 15-1232-01-TRD

Test Log:											
D	ate	Day	Time		Technician						
2015	/09/20	0	1200		CQ						
2015	/09/21	1	0855								
2015	/09/22	2	0900		ML/DS						
2015	/09/23	3	0925		HKS						
2015	/09/24	4	1130		JK						
Chemistry	/:										
Conc. (%)	control	6.3	13	25	50	100					
Day pH (units)											
0	7.6	7.7	7.6	7.6	7.4	7.3					
4	7.7	7.8	7.9	7.8	7.9	7.8					
Conductivity (µS/cm @ 25°C)											
0	430	525	606	755	1039	1552					
4	445	543	624	765	1584						
	Dissolved Oxygen (mg/L)										
0	8.3	8.3	8.3	8.4	8.5	8.5					
4	8.6	8.8	8.9	8.8	8.8	8.8					
			Τe	emperature (°	C)						
0	16	16	16	15	15	15					
4	15	14	14	14							
Number A	live (In brad	kets numb	er stressed	d):							
Conc. (%)	control	6.3	13	25	50	100					
Day											
0	10	10	10	10	10	10					
1	10	10	10	10	10	10					
2	10	10	10	10	10	10					
3	10	10 (1)	10	10	10	10					
4	10	10	10	10	10	9					
				Mortality (%)							
4	0	0	0	0	0	10					
				Stressed (%)							
4	0	0	0	0	0	0					
		•		•		-					

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Biology Summary Tables:

Control	Length	Wet
Fish	(cm)	Weight(g)
1	2.9	0.3
2	2.8	0.2
3	3.0	0.3
4	3.2	0.4
5	2.7	0.2
6	2.7	0.2
7	2.7	0.3
8	2.7	0.3
9	2.9	0.3
10	2.6	0.2
-		-
average	2.8	0.3

average	2.8	0.3
sd	0.2	0.1
cv(%)	6.4	21.1

Notes: nd, not done; na, not applicable; sd, standard deviation; cv(%), coefficient of variation

Test Data

Conc. (%) control 6.3 13 25 50	Group Wet							
	Weight (g)							
control	2.7							
6.3	2.2							
13	2.4							
25	2.5							
50	2.6							
100	2.6							

Client: NAU104 Reference: 15-1232-01-TRD

Comments/Statistics

Test Result Comments:

None

Data Analysis:

Endpoints for mortality could not be calculated. No effect occurred.

Protocol Deviations: None

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GENERAL TERMS AND CONDITIONS:

These terms and conditions are incorporated into and form part of the Chain of Custody between HydroQual Laboratories Ltd. ("HydroQual") and the party named in the Chain of Custody (the "Client").

- 1. Definitions: Capitalized terms shall have the definition ascribed as such in these General Terms and Conditions and the Chain of Custody.
- 2. The Services: HydroQual will provide the Services to the Client as listed and described in the Chain of Custody.
- 3. Prices: HydroQual may review and change all prices, fees, surcharges or other charges as set out in proposals and/or price quotations if there are changes to HydroQual's cost beyond HydroQual's control, including changes in legislative requirements, Client variations of sample numbers and Client requests for changes to standard reporting requirements. Notwithstanding condition 3, all quotations are reviewed and updated on a yearly basis.
- 4. Payment Terms: The Client shall pay HydroQual within 30 days of the invoice date as provided by HydroQual. HydroQual may, for reasonable business reasons, require the Client to arrange for payment in advance.
- 5. Quotation Numbers: The Client shall provide the proposal and/or price quotation number to HydroQual (where applicable) to ensure correct pricing.
- 6. Taxes: Applicable taxes are not included in prices, surcharges and additional fees and will be added at the time of invoicing.
- 7. No Guarantee of Results: The Client is responsible for informing itself on the limitation of the results and acknowledges that the results are not guaranteed.
- 8. Standard of Care: HydroQual will use reasonable care and diligence as required by the laws of the province or territory where the sample is tested, subject to that level of care and skill ordinarily exercised by other laboratories currently practicing under similar conditions in the same locality, subject to the time limits and financial, physical or other constraints applicable to the Services. No warranty, express or implied, is made.
- 9. Storage: Where possible, HydroQual will store samples until a final report is issued to the Client, after which time HydroQual may discard the sample.
- 10. Holds: If the Client requests a sample be placed on hold, HydroQual will store the sample for the mutually agreed upon written time and price, after which HydroQual will invoice the Client and discard the sample.
- **11.** Archives: If the Client requests a sample be archived, HydroQual will store the sample for a mutually agreed upon written time frame and price, after which HydroQual will invoice the Client and discard the sample.
- 12. Handling Protocol: Legal sample handling protocol must be arranged, and provided in writing, before samples are collected. HydroQual will provide a price quotation for legal sample protocol. Samples processed under legal protocol are stored indefinitely, subject to a storage charge as advised by HydroQual.
- 13. Samples: The quality, condition, content and source of samples stored and tested are not known to HydroQual except as declared and described on the Chain of Custody completed and submitted by the Client and accompanying the sample.
- 14. Risk of Loss: HydroQual will use reasonable care to protect samples during storage, however, all samples are stored at the Client's risk and the Client is responsible for obtaining appropriate insurance, if desired. The Client acknowledges that during the performance of the Services samples may be altered, lost, damaged or destroyed and the client forever releases HydroQual from any and all claims the Client may have for any loss or damage to the sample.
- 15. Environmental: the Client must comply with all applicable environmental legislation, including labeling all hazardous samples to comply with Canada's *Workplace Hazardous Materials Information System* and the Alberta *Transfer of Dangerous Goods* regulations, and must provide appropriate material safety data sheets that include the nature of the hazard and a contact name and phone number to call for information. The Client shall defend, indemnify and hold harmless HydroQual for all loss or damages, including any fine or cost of complying with an order of any government authority, resulting from the Client's breach of this paragraph.
- 16. Hazardous Materials Disposal: HydroQual may return, at the Client's cost, hazardous material to the Client for disposal.
- 17. Hazardous Materials Surcharge: HydroQual may apply an additional surcharge for handling of hazardous samples or samples with Naturally Occurring Radioactive Materials ("NORM"), such as and including without limitation, H₂S and CN.
- 18. Sample Containers: HydroQual may ship sample containers to the Client's location by the most cost effective means using HydroQual's preferred courier suppliers, within the specified project timeline. Shipping will be charged back to the Client.
- 19. Additional Charges: HydroQual may charge the Client:

(a) for pick-up and delivery services when provided subject in each instance to a minimum charge of \$50.00; and,

(b) for rush service (processing samples and/or reporting).

- 20. Large Bottle Orders: The Client shall provide HydroQual with not less than 24 hours' notice for large bottle orders.
- 21. Re-Tests: HydroQual reserves the right to re-test any samples that remain in HydroQual's possession. Re-tests requested by the Client may be charged to Client and Client agrees to pay for such charges.
- 22. Waiver: The Client is responsible for making any assessment regarding the suitability of the Services and the intended results for the Client's purposes and waives any and all claims against HydroQual that the Client may have against HydroQual as a result of the interpretation of the results provided to the Client. The Client shall defend, indemnify and save harmless HydroQual for any and all claims made by any third party against HydroQual in respect of all losses however arising from the performance of the Services or the use of any report provided in the performance of the Services.
- 23. LIMITATION OF LIABILITY: IN NO EVENT SHALL HYDROQUAL BE RESPONSIBLE FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES, WHETHER FORESEEABLE OR UNFORESEEABLE (INCLUDING CLAIMS FOR LOSS OF PROFITS OR REVENUE OR LOSSES CAUSED BY STOPPAGE OF OTHER WORK OR IMPAIRMENT OF OTHER ASSETS) INCURRED BY THE CLIENT ARISING OUT OF BREACH OR FAILURE OF EXPRESS OF IMPLIED WARRANTY, BREACH OF CONTRACT, BREACH OF WARRANTY, MISREPRESENTATION, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE. IN ANY EVENT, THE LIABILITY OF HYDROQUAL TO THE CLIENT SHALL BE LIMITED TO THE COST OF TESTING THE SAMPLE AS REQUESTED IN THE CHAIN OF CUSTODY UNDER WHICH THE SAMPLE WAS ORIGINALLY DEPOSITED. FOR THE PURPOSES OF THIS PARAGRAPH AND PARAGRAPHS 7, 14, 15, 22, AND 24, AS APPLICABLE, "HYDROQUAL" INCLUDES WITHOUT LIMITATIONS ITS DIRECTORS, OFFICERS, EMPLOYEES AND AFFILIATES AND THE "CLIENT" INCLUDES WITHOUT LIMITATION ANY THIRD PARTY THAT MAY HAVE A CLAIM AGAINST HYDROQUAL THROUGH THE CLIENT.
- 24. Notice of Liability: Notwithstanding paragraph 23, HydroQual shall not be liable to the Client unless the Client provides notice in writing to HydroQual of such loss or damage, together with full particulars thereof, within 30 days of the Client's receipt of the report of the analysis of the sample giving rise to such liability. The provisions of this paragraph allocate the risk between the Client and HydroQual, and the fees to be paid by the Client to HydroQual reflect this allocation of any such risks and the limitations of liability in these General Terms and Conditions.
- 25. Entire Agreement: These General Terms and Conditions, the Chain of Custody and price quotations constitute the entire agreement between the parties and supersede and take precedence over any terms and conditions contained in any documentation provided by the Client. HydroQual's execution of any subsequent documentation from the Client only acknowledges receipt and not acceptance of any terms or conditions therein unless expressly stipulated otherwise by HydroQual. If there is a conflict between these General Terms and Conditions and any other document, these General Terms and Conditions prevail.



Subcontract Request Form

2

Subcontract To:

NAUTILUS ENVIRONMENTAL

8664 COMMERCE COURT BURNABY,BC V5A 4N7

NOTES:	Please referen						11	220
	ALS requires ()C data to	be provideo	i with	your final results	•	wo#15	738
						96H	RH LC5	0
Please see	enclosed	<u>1</u> sam	ple(s) in	2	Container(s)	(test	confirmed w	/client) Josh
SAMPLE NUMBER		ANALYTI	CAL REQUI	RED		DATE S	AMPLED DUE DATE	 Priority Flag
L1673926-:	1 LC-50				· · ·	9/15/2	2015	
		Special Re REQUEST-		lus Envi	ironmental (SPECI/	AL	9/23/2015	
Subcontract	Info Contact:		Dorota Ja	mro (6	504) 253-4188			
Analysis and	l reporting info	contact:	Can Dang 8081 LOU SUITE 10 BURNABY	IGHEED 0				
	:		Phone:	(604)	253-4188	Email:car	n.dang@alsglobal	.com
Please ema	ail confirmațio	n of recei	pt to:	c	an.dang@alsgl	obal.com	The cal	15
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Subcontracted to HydroQual

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Chain of Custody (COC) / Analytical Request Form



L1673926-COFC

COC Number: 14 -
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Canada Toll Free: 1 800 668 9878

	www.alsglobal.com																
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Contact:	Meghan Marjanovic		Quality Control	Quality Control (QC) Report with Report			P Driority (2-4 bus, days if received by 3pm) 50% surcharge - contact ALS to confirm TAT										
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Phone:	867-393-4882	· ·	Email 1 or Fax	mmarjanovic@edy	namics.com		Specify Date Required for E2,E or P:										
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