

LEWKOWICH ENGINEERING ASSOCIATES LTD. ATTN: Laurie Clark Lewkowich Engineering Associates LTD 1900 Boxwood Road Nanaimo BC V9S 5Y2 Date Received:06-JUN-19Report Date:13-JUN-19 17:43 (MT)Version:FINAL

Client Phone: 250-756-0355

# Certificate of Analysis

Lab Work Order #:L2286700Project P.O. #:NOT SUBMITTEDJob Reference:F2412-279C of C Numbers:S109 Athol Street, Port Alberni, BC

Joanne Lee Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

L2286700 CONTD.... PAGE 2 of 3 13-JUN-19 17:43 (MT) Version: FINAL

Grouping	Analyte	Sample ID Description Sampled Date Sampled Time Client ID	L2286700-1 Solid 05-JUN-19 13:00 BROWN PAINT ON WOOD EXTERIOR TRIM (XRF#4)	L2286700-2 Solid 05-JUN-19 13:00 WHITE PAINT ON WOOD EXTERIOR SIDING (XRF#5)		
SOIL						
TCLP Metals	Lead (Pb)-Leachable (mg/L)		1.84	222		

### **Reference Information**

### Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
MET-TCLP-CCMS-VA	Soil	Metals by ICPMS (TCLP)	EPA 1311/6020A
This analysis is carried out Methods Volume 1C" SW- extracted at a 20:1 liquid to fluid #2 (glacial acetic acid) Instrumental analysis of the	in accordance 846 EPA Mer o solids ratio f ), depending e digested ex	with the extraction procedure thod 1311, published by the Uni- for 16 to 20 hours using either e on the pH of the original sample tract is by collision cell inductive	outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical ted States Environmental Protection Agency (EPA). In summary, the sample is extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction e. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter. ely coupled plasma - mass spectrometry (modifed from EPA Method 6020A).
* ALS test methods may inco	orporate mod	ifications from specified reference	ce methods to improve performance.
The last two letters of the al	bove test cod	le(s) indicate the laboratory tha	t performed analytical analysis for that test. Refer to the list below:
Laboratory Definition Cod	e Labora	atory Location	
VA	ALS E	NVIRONMENTAL - VANCOUVE	ER, BRITISH COLUMBIA, CANADA
Chain of Custody Numbers	:		
GLOSSARY OF REPORT T Surrogate - A compound tha applicable tests, surrogates mg/kg - milligrams per kilogu mg/kg wwt - milligrams per ki mg/L - milligrams per kilogu mg/L - milligrams per litre. < - Less than.	<b>ERMS</b> at is similar ir are added to ram based o kilogram base ilogram base	n behaviour to target analyte(s), o samples prior to analysis as a n dry weight of sample. ed on wet weight of sample. d on lipid-adjusted weight of sa	, but that does not occur naturally in environmental samples. For o check on recovery. Imple.

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.



## **Quality Control Report**

			Workorder:	L228670	0	Report Date:	13-JUN-19	Pa	age 1 of 2
Client:	LEWKO Lewkowi Nanaimo	WICH ENGINE ch Engineering BC V9S 5Y2	EERING ASSOCIA <sup>-</sup> g Associates LTD 1 2	TES LTD. 900 Boxwoo	d Road				
Contact:	Laurie Cl	ark							
Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TCLP-CO	CMS-VA	Soil							
Batch	CMS-VA R4664037	Soil							

Workorder: L2286700

Report Date: 13-JUN-19

### 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

#### Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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.



### Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



COC Number: 14 -

Page \_\_\_\_ of

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Report To		Report Format / Distribution				Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)															
Company:	Lewkowich Engineering Associates Ltd.	Select Report Format: 🛛 PDF 📿 EXCEL 📮 EDD (DIGITAL)					R 🗹 Regular (Standard TAT if received by 3 pm - business days)														
Contact:	Laurie Clark	Quality Control	(QC) Report with R	eport 🔽 Yes	s E No	P	P 🔲 Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT														
Address:	1900 Boxwood Road, Nanaimo, BC	Criteria on Rep	ort - provide details bel	ow if box checked		E	🗆 Err	nergenc	/ (1-2 bi	ıs. days	if receiv	red by	3pm) 1	m) 100% surcharge - contact ALS to confirm TAT							
	V9S 5Y2	Select Distribution: 🛛 EMAIL 💭 MAIL 🗋 FAX E2						Same day or weekend emergency - contact ALS to confirm TAT and surcharge													
Phone:	1-250-756-0355	Email 1 or Fax	lclark@lewkowich.	com		Spec	ecify Date Required for E2,E or P:														
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Invoice To	To Same as Report To F Yes No Invoice Distribution						Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below														
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ALS Lab Wo	rk Order # (lab use only)		ALS Contact: Sampler:			EB .	rLe														
ALS Sample #	Sample Identification	and/or Coordinates	1	Date	Time		- <del>2</del>														
(lab use only)	(This description will	appear on the report)		(dd-mmm-yy)	(ħh:mm)	Sample Type	ī														
	Brown Paint on Wood Exterior Trim (XRF	(#4)		05-Jun-19	13:00	Solid	R													1	
	White Paint on Wood Exterior Siding (XR	F#5)	•	05-Jun-19	13:00	Sotid	R								·					1	
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Drinking	Water (DW) Samples' (client use)	Special In	structions / Spec	ity Criteria to add o	n report (client U	se)	Froz	en				(	SIF (	Obser	vation	s ``	Yes		No		
Are samples taken from a Regulated DW System?							ice p	acks	Yes		No	Þ	Cust	ody se	eal inta	act	Yes		No		
	es 🔽 No					Cooling Initiated															
Are samples for human drinking water use?			·:				INI	INITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C									¢				
F Ye	es 🔽 No						1	9													
	SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)				FINAL SHIPMENT RECEPTION (lab use only)														
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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0328e v09 Front/04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy. 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.