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## NATIVE VILLAGE OF ELIM ELIM IRA COUNCIL P.O. BOX 39070 ELIM, ALASKA 99739

## Facsimile Cover Sheet

To: Harold Shepherd Company: Laoch Consulting Phone: (907) 299-8821 Fax: 1877977 6026

From: L'Rightakak Company: Phone:(907) 890 3737 Fax: (907) 890 3738

Date: 01/0%113 Pages including this

cover page: 1.8

Comments:

Carol Naga Native Vill P.O. Box 2 Elim, AK	aruk lage of Elim 39070	Lab	oratory Analysis Repor	t
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	Work Order:	1096372		
		Watershed Tubiktulik River	ReleaseFbrest	
	Climt	Native Village of Elim	Taylor	
	Client:	February 26, 2010	Trank- 2010.02.2	26
	Report Date:	Sets uary 20, 2010		<u></u>
ther assistance, < <u>http://www.sg</u>	, please contact your SGS Project Mar ( <u>s.com/terms_and_conditions.htm&gt;)</u> . (	above work order. If you have any questions regar- nager at 907-562-2343. All work is provided under- unless other written agreements have been accepted fontrol (QA/QC) program. A copy of our Quality A:	d by both parties.	
ADEC and AKI 021B, 8081B, 3	100001 for NELAP (RCRA methods: 8082A, 8260B, 8270D, 8270D-SIM, 1	certification numbers are AK00971 (DW Chemistr 1020A, 1311, 3010A, 3050B, 3520C, 3550C, 5030 9040B, 9045C, 9056A, 9060A, AK101 and AK102 to the provisions set forth by the SGS QAP and, wi d other regulatory authorities. The following deser-	2/103). Except as specifically noted, all the applicable, the National	
epon. *	The analyte has exceeded allow	vable regulatory or control limits.		
1	Surrogate out of control limits.			
B 	Indicates the analyte is found in	a blank associated with the sample.	1	
CCV CL	7 Continuing Calibration Verification Control Limit			
D	The analyte concentration is the	e result of a dilution.		
DF	Dilution Factor Detection Limit (i.e., maximum	e method detection limit)		
DL E	The analyte result is above the	calibrated range.		
F	indicates value that is greater the	han or equal to the DL		
GT	Oreater Than			
ICV J	Initial Calibration Verification The quantitation is an estimation			
J JL	The analyte was positively iden	ntified, but the quantitation is a low estimation.		
LCS	S(D) Laboratory Control Spike (Dut	plicate)		
LOI	D Limit of Detection (i.e., 2xDL)	) orting or practical quantitation limit)		
LO( LT	Limit of Quantitation (i.e., rep.	or magnesis quantion many		
1.1	A matrix effect was present.			
M.	-			
M MB MS	(D) Matrix Spike (Duplicate)			
M MB MS ND	<ul> <li>(D) Matrix Spike (Duplicate) Indicates the analyte is not det</li> </ul>	coted.		
M MB MS ND Q	<ul> <li>(D) Matrix Spike (Duplicate)</li> <li>Indicates the analyte is not det</li> <li>QC parameter out of acceptance</li> </ul>	ected. cc range.		
M MB MS ND	<ul> <li>(D) Matrix Spike (Duplicate)</li> <li>Indicates the analyte is not det QC parameter out of acceptant Rejected</li> <li>Relative Percent Difference</li> </ul>	cc range.		
M MB ND Q R RPI U	<ul> <li>(D) Matrix Spike (Duplicate) Indicates the analyte is not det QC parameter out of acceptant Rejected</li> <li>D Relative Percent Difference Indicates the analyte was analytic</li> </ul>	cc range.		

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December 29, 2009

Report to: Forest Taylor SGS Environmental Services Inc. - Alaska 200 W. Potter Dr. Anchorage, AK 99518 Bill to: Forest Taylor SGS Environmental Services Inc. - Alaska 200 W. Potter Dr. Anchorage, AK 99518

Project ID: 1096372 ACZ Project ID: L79864

Forest Taylor:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 11, 2009. This project has been assigned to ACZ's project number, L79864. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L79864. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after January 29, 2010. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Tony Antelek has reviewed and approved this report.







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ACZ	Laboratories, Inc. Steamboet Springs, CO 80487 (800) 3	334-5493			norg	anic Analyti Results	cal
	ental Services Inc Alaska		,	ACZ Samp		L79864-01	
Project ID:	1096372			Date San Date Rec	,	11/30/09 11:55 12/11/09	
Sample ID:	FISH CAMP			Sample N		Drinking Water	
norganic Prep Varameter	EPA Method	Result	Qual XQ. Un	nits MC	)L PG	and the second	nalyst
Total Recoverable Digestion	M2D0.2 ICP-MS					12/15/09 18:24	jjc
Vietals Analysis Parameter Uranium, total recoverable	EPA Method M200.B ICP-MS	Result 0.0005		nits ML g/L 0,00	II. 1910	Date / 005 12/16/09 13:48	Analyst erf

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ACZ	Laboratories, Inc. Steamboat Springs, CO 80487 (800) 33-	4-5493	Inorg	anic Analytical Results
SGS Environme Project ID: Sample ID:	ntal Services Inc Alaska 1096372 PROP ROCK		ACZ Sample ID: Date Sampled: Date Received: Sample Matrix:	L <b>79864-02</b> 11/30/09 11:55 12/11/09 Drinking Water
Inorganić Prep Parameter Total Recoverable Digestion	EPA Mothod M200.2 ICP-MS	Result Qual X	Q Units MDL P	oj. Date Analyst 12/15/09 18:37 jic
Metala Analysis Paramoter Uranium, total recoverable	EPA Methad M200.8 ICP-MS	Result Qual > 0.0005	and the second	QL Date Analyst 005 12/16/09 13:51 erf





	Explanations	landi. Al-dika produkti di Mali ya Mali ingi	
Batch	A distinct set of samples analyzed at a specific time		
Found	Value of the QC Type of Interest		
Limit	Upper limit for RPD, in %.		
Lower	Lower Recovery Limit, In % (except for LCSS, mg/Kg)		i and approx fluctuations
MÐL	Method Detection Limit. Same as Minimum Reporting Limit.	Allows for instrum	nent and annual nuclearers.
PCN/SCN	A number assigned to reagents/standards to trace to the mar	NURCEUTER'S COMM	sale of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.	- Colles	
QĊ	True Value of the Control Sample or the amount added to the		
Rec	Amount of the true value or spike added recovered, in % (exc		////a/
RPD	Relative Percent Difference, calculation used for Duplicate Q	C Types	
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)		
Sample	Value of the Sample of interest		
Sample Ty	mes	and a start of the	
AŜ	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicat
ASD	Analytical Splke (Post Digestion) Duplicate	LFB	Laboratory Forfified Blank
CĊB	Continuing Calibration Blank	I <sub>r</sub> EM	Laboratory Fortifled Matrix
ccv	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
OUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutiona	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	₽₿W	Prep Blank - Water
	Laboratory Control Sample - Soil Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water	PBW PQV SDL	Prep Blank - Water Practical Quantitation Verification standard Serial Dilution
LCSS LCSSD LCSW	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water	PQV SDL	Practical Quantitation Verification standard Serial Dilution
LCSS LCSSD LCSW	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water ype Explanations Verifies that there is no or minimal o	PQV SDL contamInation in ti	Practical Quantitation Verification standard Serial Dilution he prep method or calibration procedure.
LCSS LCSSD LCSW Sample Ty	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water ype Explanations Verifies that there is no or minimal i amples Verifies the accuracy of the method	PQV SDL contamination in ti d, including the pre	Practical Quantitation Verification standard Serial Dilution he prep method or calibration procedure. ap procedure.
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LCSS LCSSD LCSW Sample IN Blanks Control Sa Duplicates Spikes/For Standard Z Oualifier B	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water ype Explanations amples Verifies that there is no or minimal is amples Verifies the accuracy of the method s Varifies the precision of the instrum ritified Matrix Determines sample matrix Interfiere Verifies the validity of the calibratio s (Qual) Analysis exceeded method hold time. pH is a field test with	PQV SDL contamination in th d, including the pre- ment and/or methor inces, if any. n. d PQL. The associ an immediate hole	Practical Quantitation Verification standard Serial Dilution he prep method or calibration procedure. ap procedure. d. lated value is an estimated quantity. d time.
LCSS LCSSD LCSW Sample D Blanks Control Sa Duplicates Spikes/For Standard Z Qualifier B H	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water ype Explanations were Explanations Verifies that there is no or minimal is amples Verifies the accuracy of the method Verifies the precision of the instrum of the instrum Determines sample matrix Interfere Verifies the validity of the calibration s (Qual) Analyte concentration detected at a value between MDL and	PQV SDL contamination in ti d, including the pre- tent and/or methor ences, if any. n. J PQL. The associ- an immediate hole the level of the as	Practical Quantitation Verification standard Serial Dilution the prep method or calibration procedure. ap procedure. d. lated value is an estimated quantity. d time. sociated value.
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ALZ Laboratories, Inc. 773 Downhill Drive Steamboat Springs, CO 30487 (800) 334-5493	inorg Qua	anic Extended alifier Report
GS Environmental Services Inc Alaska	ACZ Project ID:	L79864
ZID WORKNUM PARAMETER	QUAL DESCRIPTION	
No extended qualifiers assoc	sigted with this analysis	
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	Laboratories, Inc. Steamboat Springs, CO 80487 (800) 334-5493			Ra An:	dioCh alytica	emistry al Results
	iental Services Inc Alaska 1096372 FISH CAMP		Date S Date R	mple ID: Sampled: teceived: te Matrix:	12/11/	09 11:55
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	Lab	boratories, Inc.	34-5493		Ra Ana	dioCl Ilytica	iemistry Il Results
				ACZ Sa	mple ID:	L7986	
	nental २ ४००	Services inc Alaska 16372		Date S	Sampled:		09 11:55
Project ID: Sample ID:		OP ROCK			eceived:	12/11/	
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2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493



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ort Hoodice	Explanations	an a			
Batch	A distinct set of same	ples analyzed at a specific tin	10		
Error(+/-)	Calculated sample s				
Found	Value of the QC Typ				
Limit	Upper limit for RPD,				
		In % (except for LCSS, mg/F	(g)		
LLD	Calculated sample s	pecific Lower Limit of Detection	on		
PCN/SCN	A number assigned	to reagents/standards to trace	e to the manufacturer's	certificate of analysis	
PQL	Practical Quantitatio				
QC	True Value of the Co	ontrol Sample or the amount a	added to the Spike		
Rec	Amount of the true v	alue or spike added recovere	ed, in % (except for LCS	SS, mg/Kg)	
RER	Relative Error Ratio	, calculation used for Dup. Q0	C taking into account the	e error factor.	
UCL		in % (except for LCSS, mg/			
Sample	Value of the Sample				
LCSS	Laboratory Control			-	
DUP LCSS	Sample Duplicate Laboratory Control:	Sample - Soil	PBS	Prep Blank - Soil	
LCSW	Laboratory Control	Sample - Water	PBW	Prep Blank - Water	
	and the second second				
· · · · · · · · · · · · · · · · · · ·	ype Explanations		er minimal contaminati	on in the prep method procedure.	
Blanks		Verifies that there is no Verifies the accuracy of			
Control Sa		Verifies the precision of			
Duplicates		Determines sample ma			
Matrix Spi	KØS	Ostennines sample ma	and interforences, in any	· ·	
7 Ousilia	s mush				
- wicenine:	Analysis exceeded				
R	Poor spike recover	y accepted because the other	r spike in the set fell wit	hin the given limits.	
Ť	High Replicate Erro	r Ratio (RER) accepted beca	use sample concentrat	ions are less than 10x the MDL.	
U		ed above the Lower Limit of E			
v	High blank data ao	cepted because sample conc	entration is 10 times hig	gher than blank concentration	
x		I. See Case Narrative.			
			a concentration is four	times preater than spike concentration.	

Poor spike recovery is accepted because sample concentration is four times greater than spike concentration. z

Method Pre	fix Reference
M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater, 19th edition (1995) & 20th edition (1998).
D	ASTM
RP	DOE
ESM	DOE/ESM
Comments	
(1)	Solid matrices are reported on a dry weight basis.
(2)	Preparation method: "Method" indicates preparation defined in analytical method.
(3)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
Éere e	emplote list of ACZ's Extended Qualifiers, glease click: http://www.acz.com/public/extquallist.pdf

For a complete list of ACZ's Extended Qualifiers, please click:



SGS Environmental Services Inc. - Alaska

2773 Downhill Drive

(800) 334-5493

64 P

RadChem Extended

Qualifier Report

ACZ Proj	ject ID:	L798
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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL.	DESCRIPTION.
1.79864-01	W <b>G276</b> 176	Alpha	M900.0		Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Procision judged to be in control.
		Beta	M900.0		Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG275811	Radium 228	M904.0	RĠ	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L79864-02	WG276176	Alpha	M900.0	RĠ	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Beta	M900.0	RG	Sample concentration is loss than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG275811	Radilum 228	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for date validation. Replicate Error Ratio (RER) is less than 2. Practision judged to be in control.

<b>4CZ</b> Laboratories, Inc. 73 Downbill Drive Steamboat Springs, CO 80487 (800) 334-5493		ertification Qualifiers
3S Environmental Services Inc Alaska	ACZ Project ID:	L79864
No certification qualifiers associate	d with this analysis	
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EPAD.05.06.05.01		e 10 of 13

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ACZ	Laboratories, In Steamboat Springs, CO 80487	IC. (800) 334-5493		Sample Receip	
GS Environme	ental Services Inc Alaska	3	ACZ Project		L79864
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			Received I Date Print	-	2/11/2009
	a tura da anticipada a sur da anticipada a ditura	and a state of the second			
oceipt Verifica	<b>an de la constant de</b> La constant de la cons	San Angeland an Angeland a Angeland an Angeland an Ange	Y	'ES NO	NA
1) Does this pro	oject require special handling p	rocedures such as CLP protocol?	 		X
2) Are the custo	ody seals on the cooler intact?				×
	ody seals on the sample contai				X
4) is there a Ch	nain of Custody or other directiv	e shipping papers present?		×	<del></del>
	of Custody complete?			X	
	of Custody in agreement with t			<u> </u>	and the second
	ugh sample for all requested ar			×	
,	les within holding times for req		ļ	<u>×  </u>	
9) Were all san	nple containers received intact'	?		× '	
	nperature blanks present?		·		×
	blanks (VOA and/or Cyanide)				<u> </u>
	es requiring no headspace, hea oples that require a Foreign Sol		ļ		X
N/A	ny discrepancies, the client if				
N/A Shipping Conta	ainers				
Cooler Id	Temp (°C) Rad (µR/hr)	Client must contact ACZ Project M samples received outside of therma	anager if analysis sho	uid not procee tance priteria	d for
NA9944	2.7 18	samples received outside of themis	ar preact which is doop		
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773 Down	Laboratoria	) 80487 (800)	334-549	3					amr lece	<u>.</u>	9864	
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	Container Preservation			2.   BK < 2	Y< 2	YG< 2	B< 2	0<2	T >12	N/A	RAD	 ⊐i
AMPLE	CLIENT ID	R < 2	G < 2			1.0						w
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Date Time Received For Laboratory By: C:	Reitmauishe	11/100			Received B	*	· · · · ·		<b>RASKA</b> Temperature t				Chain of Cu	stody Seek: (	(Circle)
or Ambient	Relinquishe		2		Received F	or Labora	ory By:		°C: or Ambient					BROKEN	ABSENT

[] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 551-5301

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Locationi 1096372 • Alaska • New Jarsey • West Vriginia • West Vriginia	3 16:5		REMARKS/ LOC ID		Special Deliverable Requirements:	Whithered water	# Chain of Custody Seal: (Circle)
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SGS North America Inc. CHAIN OF CUSTODY RECORD		PHONE NO. (907) 890-5/37 SITEPEWSID#: TUBUKTUIK RIVER EMML: OMINGUGUG GMRILLON Dr backoffZgurl@yahoo. ONDATE #:	39070 Date time watery 11/23/09/1309/m	11/23/091:30 PM	Time Received By:	Time	Time Received By: Time Received By:
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01,	/09/2	013	16:56 9078903738	NATIVE VIL	LAGE ELIM	Pi	AGE 17/18
SGS			SAMPLE RECEIF	T FORM	SGS WO#:	1096	
Yes	No	NA	Are samples RUSH, priority or w/in 72 hrs of h	old time?	TAT (circle o	ne): Standard	or- Rush
<u> </u>	<u> </u>	 ••	If yos have you done e-mail ALERT notificate	2017	<b>Received Date</b>	:	09
			Are samples within 24 hrs. of hold time or du	e date?	Received Time Cooler ID	<u>remperature</u>	Measured w/
		÷	If yes, have you also spoken with supervisor? Archiving bottles: Are lids marked w/ red "X"?	•	<u></u>		(Therm/IR (D#)
	<u> </u>	$\overline{\overline{}}$	Wore samples collected with proper preserval	ave?		<u>AMB</u> °C	
	<u> </u>	- <u></u>	Any problems (ID, cond'n, HT, etc)? Expla	an;		°C	
						PC	ר הסתפכוופה (אכנסת
			If this is for PWS, provide PWSID:		- Delivery metho	Correle all that and	olv):
$\overline{v}$			Payment received: \$ 1760 by Checkor	pr Credit Card	TIPS / FedEx	USPS/DHL	/ SGS / Carlile
			Will courier charges apply? Data package required? (Level: 1 / 2 / 3 /		AkAir Goldstre	ak / NAC / EP.	A / PenAir
	<u> </u>		Notes:	<u></u>	Other Additional Sampl	e Remarks: (√ <i>if</i>	applicable)
			Is this a DoD project? (USACE, Navy, AFCEE)	n waad i bii bii bii bii bii bii bii bii b	_ Extra	i Sample Volun	ne?
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1 ie		NA	Ts received temperature <670.		1.ab-	filtered for disso	oived
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			Were all VIOCS ITEC OF DESCEPTION SHOWS IN STRUCTURE				
			Were all samples sealed in separate plastic page Were all VOCs free of nesdspace and or Veola Were concet comance / sample sizes submitted way, the PM inoritized of annual so they can serve Sample Recept Action wengement (6) of				
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Preservative	*Nobs NH4Cl Othur: 201025					• •	,							11 31.69
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r Type	Other:		7									 ocumented p		
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SAMPLE RECEIPT FORM - Bottle Tracking	Ольст: 40mL :тайго	-	9	4								ion upon rece		
RECEIPT FO	125mL or 402											cal preservat		
SAMPLE ]	IT LB DC											Bottle Totats 16 dditional) chemic		
	Test	Rodissuction to RE MARCH	RAMON	( H 10. 11.10 - 21.44 C	VAPIN & VIE INCL							* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106	CUBIE	
	xittsh										 	* Note: Cont		

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NATIVE VILLAGE ELIM

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