North Creek Analytical, Inc.
Environmental Laboratory Network
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COC#216

CHAIN OF CUSTODY REPORT

Work Order #: M108006, P2H0252

CLIENT: BRISTOL
REPORT TO: ANNE KRANAWETTER
ADDRESS: AMCHITKA, AK
PHONE: 907.770.0974 FAX: 770.0975

INVOICE TO: BRISTOL
P.O. NUMBER: 21090

PROJECT NAME: AMCHITKA
PROJECT NUMBER: 21090
SAMPLED BY: ARK / CRM

TURNAROUND REQUEST in Business Days*
Organic & Inorganic Analyses: 10 | 7 | 5 | 4 | 3 | 2 | 1 | <1 (STD.)
Petroleum Hydrocarbon Analyses: 5 | 4 | 3 | 2 | 1 | <1 (STD.)
OTHER — Please Specify
*Turnaround Requests less than standard may incur Rush Charges.

REQUESTED ANALYSES

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Metals	PCBs												MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMLA32SL	8/3/01 1435	X	X												S	2		
2. 01AMLA27SL	8/3/01 1440	X	X												S	2		
3. 01AMLA21SL	8/3/01 1455	X	X												S	2		
4. 01AMLA22SL	8/3/01 1500	X	X												S	2		
5. 01AMLA09SL	8/3/01 1510	X	X												S	2		
6. 01AMLA04SL	8/3/01 1520	X	X												S	2		
7. 01AMLA05SL	8/3/01 1530	X	X												S	2		
8.																		
9.																		
10.																		
11.																		
12.																		
13.																		
14.																		
15.																		

RELINQUISHED BY	PRINT NAME	FIRM	DATE	TIME	RECEIVED BY	PRINT NAME	FIRM	DATE	TIME
Anne Kranawetter	Anne Kranawetter	BRISTOL	8/3/01	1646	Craig Bradle	Craig Bradle	NCA	8/3/01	1646

ADDITIONAL REMARKS: Last of North Lagoon's Confirmation Soil sediment samples

TEMP: 9.6°

COC REV 3/99

PAGE 1 OF 1

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20 August, 2001

Steve Johnson
Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 08/09/01 10:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jerry Orlando
Project Manager/QA

Work Orders included in this report:
P1H0252

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116	Project: Amchitka Project Number: 210901, PO# 21090 Project Manager: Steve Johnson	**Reported:** 08/20/01 11:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMLA32SL	P1H0252-01	Soil	08/03/01 14:35	08/09/01 10:55
01AMLA27SL	P1H0252-02	Soil	08/03/01 14:40	08/09/01 10:55
01AMLA21SL	P1H0252-03	Soil	08/03/01 14:55	08/09/01 10:55
01AMLA22SL	P1H0252-04	Soil	08/03/01 15:00	08/09/01 10:55
01AMLA09SL	P1H0252-05	Soil	08/03/01 15:10	08/09/01 10:55
01AMLA04SL	P1H0252-06	Soil	08/03/01 15:20	08/09/01 10:55
01AMLA05SL	P1H0252-07	Soil	08/03/01 15:30	08/09/01 10:55

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W. International Airport Rd. #C-1	Project Number: 210901, PO# 21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager: Steve Johnson	08/20/01 11:25

Total Metals per EPA 6000/7000 Series Methods

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA32SL (P1H0252-01) Soil					Sampled: 08/03/01	Received: 08/09/01			
Arsenic	**3.11**	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	**11.4**	0.500	"	"	"	"	"	"	
Lead	**6.85**	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
01AMLA27SL (P1H0252-02) Soil					Sampled: 08/03/01	Received: 08/09/01			
Arsenic	**7.50**	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	**12.3**	0.500	"	"	"	"	"	"	
Lead	**6.72**	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
01AMLA21SL (P1H0252-03) Soil					Sampled: 08/03/01	Received: 08/09/01			
Arsenic	**3.91**	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	**11.9**	0.500	"	"	"	"	"	"	
Lead	**3.63**	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
01AMLA22SL (P1H0252-04) Soil					Sampled: 08/03/01	Received: 08/09/01			
Arsenic	**5.90**	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	**12.2**	0.500	"	"	"	"	"	"	
Lead	**4.92**	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W. International Airport Rd. #C-1	Project Number: 210901, PO# 21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager: Steve Johnson	08/20/01 11:25

Total Metals per EPA 6000/7000 Series Methods

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA09SL (P1H0252-05) Soil					Sampled: 08/03/01	Received: 08/09/01			
Arsenic	**3.20**	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	**11.5**	0.500	"	"	"	"	"	"	
Lead	**5.09**	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
01AMLA04SL (P1H0252-06) Soil					Sampled: 08/03/01	Received: 08/09/01			
Arsenic	**4.81**	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	**11.1**	0.500	"	"	"	"	"	"	
Lead	**3.85**	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
01AMLA05SL (P1H0252-07) Soil					Sampled: 08/03/01	Received: 08/09/01			
Arsenic	**5.94**	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	**15.5**	0.500	"	"	"	"	"	"	
Lead	**5.43**	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W. International Airport Rd. #C-1	Project Number: 210901, PO# 21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager: Steve Johnson	08/20/01 11:25

Mercury by EPA Method 1631

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA32SL (P1H0252-01) Soil					Sampled: 08/03/01	Received: 08/09/01			
Mercury	**0.0137**	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMLA27SL (P1H0252-02) Soil					Sampled: 08/03/01	Received: 08/09/01			
Mercury	**0.0131**	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMLA21SL (P1H0252-03) Soil					Sampled: 08/03/01	Received: 08/09/01			
Mercury	**0.0133**	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMLA22SL (P1H0252-04) Soil					Sampled: 08/03/01	Received: 08/09/01			
Mercury	**0.0110**	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMLA09SL (P1H0252-05) Soil					Sampled: 08/03/01	Received: 08/09/01			
Mercury	**0.0133**	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMLA04SL (P1H0252-06) Soil					Sampled: 08/03/01	Received: 08/09/01			
Mercury	**0.0165**	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMLA05SL (P1H0252-07) Soil					Sampled: 08/03/01	Received: 08/09/01			
Mercury	**0.0165**	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W. International Airport Rd. #C-1	Project Number: 210901, PO# 21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager: Steve Johnson	08/20/01 11:25

Percent Dry Weight (Solids) per Standard Methods
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA32SL (P1H0252-01) Soil					Sampled: 08/03/01	Received: 08/09/01			
% Solids	**76.4**	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	
01AMLA27SL (P1H0252-02) Soil					Sampled: 08/03/01	Received: 08/09/01			
% Solids	**77.2**	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	
01AMLA21SL (P1H0252-03) Soil					Sampled: 08/03/01	Received: 08/09/01			
% Solids	**77.7**	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	
01AMLA22SL (P1H0252-04) Soil					Sampled: 08/03/01	Received: 08/09/01			
% Solids	**77.9**	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	
01AMLA09SL (P1H0252-05) Soil					Sampled: 08/03/01	Received: 08/09/01			
% Solids	**75.2**	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	
01AMLA04SL (P1H0252-06) Soil					Sampled: 08/03/01	Received: 08/09/01			
% Solids	**76.3**	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	
01AMLA05SL (P1H0252-07) Soil					Sampled: 08/03/01	Received: 08/09/01			
% Solids	**70.4**	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W. International Airport Rd. #C-1	Project Number: 210901, PO# 21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager: Steve Johnson	08/20/01 11:25

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1081294 - EPA 3050										
Blank (1081294-BLK1)				Prepared: 08/13/01	Analyzed: 08/15/01					
Arsenic	ND	0.500	mg/kg							
Cadmium	ND	0.500	"							
Chromium	ND	0.500	"							
Lead	ND	0.500	"							
Selenium	ND	0.500	"							
Silver	ND	0.500	"							
LCS (1081294-BS1)				Prepared: 08/13/01	Analyzed: 08/15/01					
Arsenic	10.1	0.500	mg/kg	10.0		101	80-120			
Cadmium	10.2	0.500	"	10.0		102	80-120			
Chromium	10.2	0.500	"	10.0		102	80-120			
Lead	9.95	0.500	"	10.0		99.5	80-120			
Selenium	9.91	0.500	"	10.0		99.1	80-120			
Silver	4.76	0.500	"	5.00		95.2	80-120			
Duplicate (1081294-DUP1)		**Source: P1H0333-01**		Prepared: 08/13/01	Analyzed: 08/15/01					
Arsenic	8.34	0.500	mg/kg dry		5.42			42.4	40	Q-14
Cadmium	ND	0.500	"		ND				40	
Chromium	6.34	0.500	"		3.33			62.3	40	Q-14
Lead	9.56	0.500	"		7.85			19.6	40	
Selenium	0.551	0.500	"		0.745			29.9	40	
Silver	ND	0.500	"		ND			11.0	40	
Matrix Spike (1081294-MS1)		**Source: P1H0333-01**		Prepared: 08/13/01	Analyzed: 08/15/01					
Arsenic	16.3	0.500	mg/kg dry	12.1	5.42	89.9	75-125			
Cadmium	11.1	0.500	"	12.1	ND	91.7	75-125			
Chromium	15.2	0.500	"	12.1	3.33	98.1	75-125			
Lead	17.8	0.500	"	12.1	7.85	82.2	75-125			
Selenium	12.4	0.500	"	12.1	0.745	96.3	75-125			
Silver	5.55	0.500	"	6.05	ND	90.0	75-125			

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W. International Airport Rd. #C-1	Project Number: 210901, PO# 21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager: Steve Johnson	08/20/01 11:25

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1081294 - EPA 3050										
Matrix Spike (1081294-MS2)		**Source: P1H0253-01**		Prepared: 08/13/01	Analyzed: 08/15/01					
Arsenic	16.2	0.500	mg/kg dry	13.0	5.09	85.5	75-125			
Cadmium	13.2	0.500	"	13.0	ND	101	75-125			
Chromium	22.5	0.500	"	13.0	14.4	62.3	75-125			Q-14
Lead	16.6	0.500	"	13.0	4.22	95.2	75-125			
Selenium	13.7	0.500	"	13.0	ND	104	75-125			
Silver	6.32	0.500	"	6.51	ND	96.3	75-125			

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W. International Airport Rd. #C-1	Project Number: 210901, PO# 21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager: Steve Johnson	08/20/01 11:25

Mercury by EPA Method 1631 - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1081295 - EPA 7471										
Blank (1081295-BLK1)				Prepared: 08/14/01	Analyzed: 08/17/01					
Mercury	ND	0.00100	mg/kg							
LCS (1081295-BS1)				Prepared: 08/14/01	Analyzed: 08/17/01					
Mercury	0.00990	0.00100	mg/kg	0.0100		99.0	85-115			
Duplicate (1081295-DUP1)		Source: P1H0252-04		Prepared: 08/14/01	Analyzed: 08/17/01					
Mercury	0.0100	0.00100	mg/kg dry		0.0110			9.52	20	
Matrix Spike (1081295-MS1)		Source: P1H0252-04		Prepared: 08/14/01	Analyzed: 08/17/01					
Mercury	0.0221	0.00100	mg/kg dry	0.0128	0.0110	86.7	75-125			
Matrix Spike (1081295-MS2)		Source: P1H0333-04		Prepared: 08/14/01	Analyzed: 08/17/01					
Mercury	0.0494	0.00100	mg/kg dry	0.0115	0.0432	53.9	75-125			Q-02

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W. International Airport Rd. #C-1	Project Number: 210901, PO# 21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager: Steve Johnson	08/20/01 11:25

Percent Dry Weight (Solids) per Standard Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1081268 - Dry Weight										
Duplicate (1081268-DUP1)		**Source: P1H0252-07**		Prepared: 08/13/01 Analyzed: 08/14/01						
% Solids	71.6	1.00	% by Weight		70.4			1.69	20	
Duplicate (1081268-DUP2)		**Source: P1H0253-01**		Prepared: 08/13/01 Analyzed: 08/14/01						
% Solids	77.2	1.00	% by Weight		76.7			0.650	20	

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering	Project: Amchitka	
2000 W. International Airport Rd. #C-1	Project Number: 210901, PO# 21090	**Reported:**
Anchorage, AK 99502-1116	Project Manager: Steve Johnson	08/20/01 11:25

Notes and Definitions

Q-02	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
Q-14	The Spike Recovery and/or RPD is outside of control limits due to a non-homogeneous sample matrix.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
wet	Sample results reported on a wet weight basis (as received)
RPD	Relative Percent Difference