FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/23/04
Date Received: 08/13/04
Project: Metro Grab, PO# M104728, F&BI 408120
Date Extracted: 08/17/04
Date Analyzed: 08/17/04

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Chromium	Copper	Nickel	Zinc
M104728 408120-01	0.31	0.29	0.15	<0.05
Method Blank	<0.05	<0.05	<0.10	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 408120-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.31	0.31	0	0-20
Copper	mg/L (ppm)	0.29	0.25	15	0-20
Nickel	mg/L (ppm)	0.15	0.14	7	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 408120-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	5	0.31	92	86	50-150	7
Copper	mg/L (ppm)	5	0.29	95	92	50-150	3
Nickel	mg/L (ppm)	10	0.15	92	86	50-150	7
Zinc	mg/L (ppm)	5	<0.05	100	92	50-150	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	5	104	103	70-130	1
Copper	mg/L (ppm)	5	100	99	70-130	1
Nickel	mg/L (ppm)	10	101	103	70-130	2
Zinc	mg/L (ppm)	5	105	104	70-130	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

AKC-0008180

408120

SAMPLE CHAIN OF CUSTODY

CM 08/13/04

AI5

Send Report To G. Thompson

Company Alaskan Copper Works

Address 628 S. Hanford ST

City, State, ZIP Seattle WA98134

Phone # 206-382-8379 Fax # 206-382-4305

SAMPLERS (signature)

PROJECT NAME/NO. METRO Grab

PO # M104728

REMARKS

Page # _____ of _____

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Cr, Cu, Ni, Zn					Notes
M104728	01	8/13/04	9:45	H2O	1							X					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		G. Thompson	ACW	8/13/04	10:37 am
Received by:		Nhan Phan	Friedman & Bruya	8/13/04	10:37 am
Relinquished by:					
Received by:					

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 23, 2004

DUPLICATE COPY

INVOICE # 04ACU0823-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Grab, PO# M104728, F&BI 408120 - Results of testing requested by Gerry Thompson for material submitted on August 13, 2004.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ $80 per sample	$ 80.00
Amount Due	$ 80.00

FEDERAL TAX ID #(b) (6)

FRIEDMAN & BRUYA, INC.

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FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 23, 2004

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 13, 2004 from the Metro Grab, PO# M104728, F&BI 408120 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow

Charlene Morrow
Chemist

Enclosures
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