Transportation
Land Development
Environmental
Services

VHB imagination | innovation | energy Creating results for our clients and benefits for our communities

November 14, 2003

Vanasse Hangen Brustlin, Inc.

Ref: 06392

Shamindar Singh
Project Manager
New York State Department of Environmental Conservation
Region 2 Office
47-40 21st Street
Long Island City, New York 11101

Re: Additional Sampling – Newtown Elmhurst Holder Site (VCA#D2-0002099-01)

Dear Mr. Singh:

The following paragraphs briefly summarize the additional sampling conducted by Vanasse Hangen Brustlin, Inc. (VHB) at above referenced site.

Background

Per our discussions on October 16, 2003 at the New York State Department of Environmental Conservation (NYSDEC) Region 2 offices, VHB conducted additional surface soil sampling to support Voluntary Cleanup Agreement (VCA) closure at the above-referenced site. Sampling was to be conducted in the northeast portion of the site adjacent to residential properties, at off-site locations adjacent to the east side of the site (Verizon), and at off-site locations along adjacent streets. The new sampling data, in conjunction with existing on and off-site data will be used to support NYSDEC's issuance of a "No further Action" letter for the VCA.

Field Work

Sampling was conducted on October 21 and 22, 2003. 15 discrete surface soil samples were collected from six on-site locations and nine off-site locations (NSS-01A through NSS-015A). Surface soil samples from a 0-2" interval were collected with precelaned dedicated stainless steel spoons. Soils were transferred directly into lab sample bottles. Sample QA/QC included a duplicate and a field blank. Samples were labeled, packaged, and preserved (stored on ice) before being delivered to H2M Labs, Inc. (H2M) for analysis. All sample points were located via GPS survey.

54 Tuttle Place
Middletown, Connecticut 06457-1847
860.632.1500 ▪ FAX 860.632.7879
email: info@vhb.com
www.vhb.com

Shamindar Singh
Project No.: 06392
November 14, 2003

Sample Results

Soil samples were analyzed for lead via EPA method 6010B. Concentration from on-site samples ranged from 82.9 ppm to 778 ppm. Off-site results ranged from 141 ppm to 1020 ppm. The highest concentration detected was located east of the Verizon parking lot at sample point NSS-09A. Refer to Table 1 for a summary of sample data.

The data summary and complete analytical data packages are attached. The laboratory internal QA/QC procedures indicate the data set meets method standards. Duplicate sample analysis was consistent with original sample results, and the field blank was non-detect for lead. The data is useful for the purpose of this project. The laboratory data package has not been subject to third party data validation.

Data Presentation

Oversize figure Ev-1 has the sample locations and results of the most recent sampling effort, and perimeter/off-site sample results for samples collected during site investigation and interim response measure (IRM) activities. Figure Ev-2 identifies on-site lead concentrations and sampling locations prior to initiation of IRM sampling and remediation work. Figure Ev-3 identifies areas which were remediated (by excavation and off-site disposal) and closure sampling results. Corresponding depths and type of sample (grab or composite) are identified on each figure.

Discussion of Results

The most recent soil analytical data is consistent with previously generated data from sample points adjacent to the site boundary or off-site, and is indicative of the variability of lead concentrations in urban settings. The average off-site concentration detected was 442 ppm. This compares to 592 ppm detected off-site by a local resident in 1997, 272.3 ppm detected by KeySpan in 1997, and an average of 568.2 ppm detected as part of the IRM sampling program.

Concerns over off-site migration of lead via overland flow on the Verizon parking lot are mitigated by:

- The Verizon lot is curbed on both the eastern and western boundary. The curb on the western boundary and adjacent lawn would effectively "trap" any soils/particulate migrating from the subject site eastward. This is supported by the high concentrations of lead previously detected (and remediated) in surface and subsurface soils in this area.
- The curb on the eastern boundary has contained runoff, precluding flows to the grass areas east of the parking lot. This is supported by the most recent analytical data which indicates

surface soil east of the parking lot contain less than 1/10th the concentration of lead previously detected in on-site soils on the eastern boundary of the site.

- The local topography of the parking lot is a "bowl" shape preventing runoff to adjacent properties.

We look forward to meeting with you to discuss the results. Please call me at 716-655-2734 with any questions or to set-up a meeting.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.

Matthew J. Wawrowski, P.E.
Project Manager

xc. T. Bell (KeySpan)
J. Lacetti (NYSDOH)
K. Frantzen (VHB)

Attachments

Table 1
Summary of Additional On/Off-site Surface Soil samples
KeySpan- Newtown Station Site
Queens, NY

Sample Identification	Results (ppm)	Notes/Location
NSS-01A	778	On-site, NE access
NSS-02A	577	On-site, NE corner
NSS-03A	530	On-site, East Fence
NSS-04A	626	On-site, East Fence
NSS-05A	524	On-site, East Fence
NSS-06A	82.9	On-site, East Fence
NSS-07A	307	Verizon
NSS-08A	738	Verizon
NSS-09A	1020	Verizon, South of 54th
NSS-10A	319	Verizon
NSS-11A	274	Verizon, East of Bldg.
NSS-12A	597	North side of Grand
NSS-13A	308	SW corner 80th/Grand
NSS-14A	141	SW corner 80th/Grand
NSS15A	276	South side of 57th
Average on-site	520	
Average off-site	442	
Average	473	

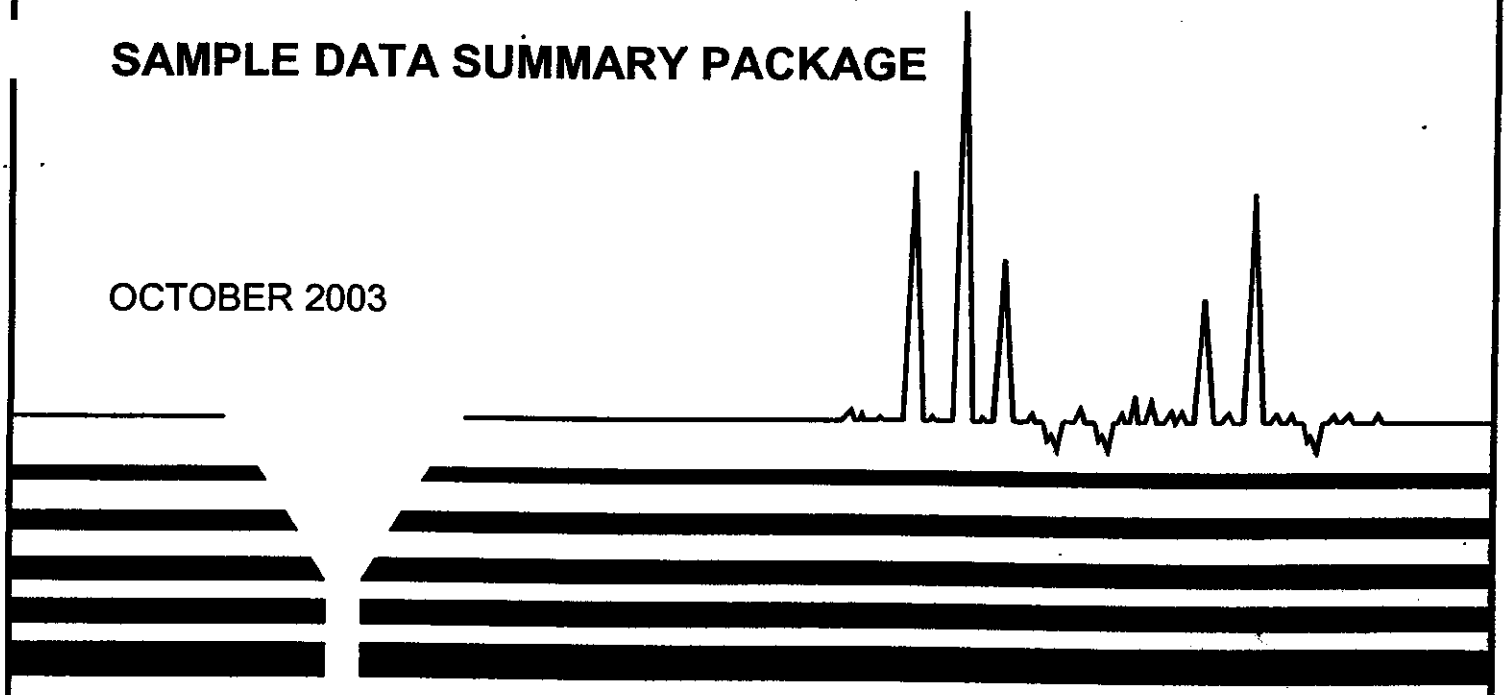
Analytical Data Package For

KEYSPAN
VANASSE HANGEN BRUSTLIN
NEWTOWN STATION
SDG NO: VHBNY004

Soil Samples
Received: 10/22/03

SAMPLE DATA SUMMARY PACKAGE

OCTOBER 2003



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

TABLE OF CONTENTS

KEYSPAN
VANASSE HANGEN BRUTSLIN
NEWTOWN STATION
SOIL SAMPLES
SDG NO.: VHBNY004
SAMPLES RECEIVED: 10/22/03

H2M LABS, INC.

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
KEYSPAN – VANASSE HANGEN BRUSTLIN
SOIL SAMPLES
SDG NO.: VHBNY004
SAMPLES RECEIVED: 10/22/03

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*GC VOA	PCBs	*METALS	OTHER
NSS-01A	0310665-001					X	
NSS-02A	0310665-002					X	
NSS-03A	0310665-003					X	
NSS-04A	0310665-004					X	
NSS-05A	0310665-005					X	
NSS-06A	0310665-006					X	
NSS-07A	0310665-007					X	
NSS-08A	0310665-008					X	
NSS-09A	0310665-009					X	
NSS-10A	0310665-010					X	
NSS-11A	0310665-011					X	
NSS-12A	0310665-012					X	
NSS-13A	0310665-013					X	
NSS-14A	0310665-014					X	
NSS-15A	0310665-015					X	
NSS-FB	0310665-016					X	

* Check Appropriate Boxes
* CLP/Non-CLP (Please indicate year of protocol) ASP B 10/95
* TCL/TAL, HCL, TS
* TCLP METALS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
ENVIRONMENTAL TESTING LABORATORIES, INC.
SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES
SOIL SAMPLES
KEYSPAN-VANASSE HANGEN BRUSTLIN
SDG NO.: VHBNY004
SAMPLES RECEIVED: 10/22/03

SAMPLE ID	MATRIX	ANALYSIS REQUESTED	DATE RECEIVED	DATE * ANALYZED
NSS-01A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-02A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-03A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-04A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-05A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-06A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-07A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-08A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-09A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-10A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-11A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-12A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-13A	SOIL	TOTAL LEAD	10/22/03	10/03
[illegible]-14A	SOIL	TOTAL LEAD	10/22/03	10/03
[illegible]-15A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-FB	WATER	TOTAL LEAD	10/22/03	10/03

* SEE INDIVIDUAL RUN SHEETS FOR EXACT DATES.
As, Ba, Cd, Cr, Pb, Se, and Ag

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC — EXTERNAL CHAIN OF CUSTODY

575 Broadhollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

CLIENT: KEYVHB-NY | **H2M SDG NO:** VHBNY004

PROJECT NAME/NUMBER: Newtown Station

SAMPLERS: (signature)/Client

DELIVERABLES: B5-7DJ

TURNAROUND TIME: 21 Days*

NOTES: *1 Week Verbals

Project Contact: Matt Wawrowski

Phone Number: (716) 655-2734

Sample Container Description: 1 Liter w/ HNO3; 8oz amber jar

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. (LEAD) Metal	INORG. CN	LAB I.D. NO.	REMARKS:
10/21	1340	SOIL	NSS-01A	1				1		0310605-001	
10/21	1345		NSS-02A							2	
10/21	1350		NSS-03A							3	
10/21	1353		NSS-04A							4	
10/21	1355		NSS-05A							5	
10/21	1400		NSS-06A							6	
10/22	840		NSS-07A							7	
10/22	847		NSS-08A							8	
10/22	853		NSS-09A							9	
10/22	858		NSS-10A							10	
10/22	[illegible]		FB (NSS-FB)	1				1		16	Field Blank

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/21/22	1445		10/22/22	11:45
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/22/22	1200		10/22/22	1200
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

VHBNY004 S6 WHITE COPY - ORIGINAL — YELLOW COPY - CLIENT — PINK COPY - LABORATORY

H2M LABS, INC

575 Bro... Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

EXTERNAL CHAIN OF CUSTODY

CLIENT: KEYVHB - NY

H2M SDG NO: VHBNY004

PROJECT NAME/NUMBER: NEWTOWN STATION

SAMPLERS: (signature)/Client

DELIVERABLES: B5-7OD

TURNAROUND TIME: 21 DAYS *

NOTES: * 1 WEEK VERBAL

Project Contact: MATT WAWROWSKI

Phone Number: 716 655 2734

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Lead Metal	INORG. CN	LAB I.D. NO.	REMARKS:
10/22	905	SOIL	NSS-11A	1				X		03106665-011	
10/22	930	"	NSS-12A	1						12	DUPLICATE
10/22	935	"	NSS-13A							13	
10/22	943	"	NSS-14A							14	
10/22	947	↓	NSS-15A	↓				↓		↓ 15	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/22/13	1145		10/22/13	11:45
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/22/13	1210		10/22/13	1210
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL — YELLOW COPY - CLIENT — PINK COPY - LABORATORY

VHBNY004 S7

VHBNY004

H2M LABS, INC.

Sample Receipt Checklist

Client Name KEYVHB-NY

Date and Time Receive 10/22/2003 12:00:00 PM

Work Order Numbe 0310665

Received by AM

Checklist completed b _____ 10/22/03 (Signature / Date)

Reviewed by SMB 10/22/03 (Initials / Date)

Matrix

Carrier name Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Cooler/Temp Blank temperature in compliance?	Yes ☑	No ☐ 2°6C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

VHBNY004 S8

H2M LABS, INC.

folder 10/22

INTERNAL CHAIN OF CUSTODY

* 1 week verbals *

CLIENT: KeyVHB-NY DELIVERABLES: B5-7OD TURN AROUND TIME: 21 days

SDG#: VHBNY004 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: PS#087 Key-VHB Newtown

RECEIVED BY: ASM SIGNATURE: [signature] DATE: 10/22/03 TIME: 1200

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
NSS-01A	030665 001A	10/21/03	A	1	6010 S-PKG (Sed)
02A	002A				
03A	003A				
04A	004A				
05A	005A				
06A	006A				
07A	007A	10/22/03			
08A	008A				
09A	009A				
10A	010A				
11A	011A				
12A MS/MSD	012A			2	
13A	013A			1	
14A	014A				
15A	015A				
FB	016A		EN		6010-W PKG (Sed)
			ASM		
				10/22/03	

METALS

VHBNY004.S9

P 000

H2M LABS, INC.

CLIENT: KeyVHB-NY

SDG #: VHBNY004

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
10/22/03	1500	SIGN [signature]	SIGN [signature]	A, EN	Analysis	
10/22/03	9:00	SIGN [signature]	SIGN [signature]	A	Digestion	
10/22/03	1200	SIGN [signature]	SIGN [signature]	DigenDB	Analysis/Storage	
10/22/03	1530	SIGN [signature]	SIGN [signature]	A	Prep	✱
10/22/03	1545	SIGN [signature]	SIGN [signature]	A	Storage/Analysis	
10/23/03	7:53	SIGN [signature]	SIGN [signature]	D105	ICP Analysis	
10/23/03	14:37	SIGN [signature]	SIGN [signature]	D105	Storage	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

✱ Signed out of sequence

METALS

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR METALS
SAMPLE RECEIVED: 10/22/03
SDG #: VHBNY004

For Sample:

NSS-01A	NSS-09A
NSS-02A	NSS-10A
NSS-03A	NSS-11A
NSS-04A	NSS-12A MS/MSD
NSS-05A	NSS-13A
NSS-06A	NSS-14A
NSS-07A	NSS-15A
NSS-08A	NSS-FB

One water sample and fifteen soil samples were received by H2M Labs, Inc. on 10/22/03 for lead analysis.

Samples was prepared and analyzed using EPA method 6010B with a TJA61E Trace ICP instrument.

Sample N-12A was utilized for QC analysis and reporting.

Lead spike analysis did not recover within 75-125%. Since the sample value exceeded the spike value by more than four times, post spikes and data qualifiers were not required.

No other problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: October 28, 2003

Vincent Stancampiano
Vice President

VHBNY004 S12 @ 10/31/03

4. SAMPLE REPORTS

4.1 METALS

H2M LABS, INC.

QUALIFIERS FOR METALS ANALYSIS

Q (Quality Control) Qualifiers

E - The reported value is estimated because of the presence of interference. An explanatory note is included in the SDG narrative.

M - Duplicate injection precision not met.

N - Matrix spike sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

+ - Correlation coefficient for the MSA is less than 0.995

W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis is not within control limits.

C (Concentration) Qualifiers

B - Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).

U - Entered if the analyte was analyzed for but not detected, i.e., less than the IDL.

M (Method) Qualifiers

P - Analyzed by ICP.
A - Analyzed by Flame AA.
F - Analyzed by Furnace AA.
CV - Analyzed by Manual Cold Vapor techniques.
AV - Analyzed by Automated Cold Vapor techniques.
C - Analyzed by Manual Spectrophotometric Method.
CA- Analyzed by Midi-distillation Spectrophotometric Method.
NR - Analyte not Required.

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-01A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-001

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 79.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	778			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-02A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-002

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 80.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	577			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-03A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-003

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 77.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	530			P

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-04A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-004

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 76.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	626			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 S18

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-05A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-005

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 81.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	524			P

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported:10/25/03

VHBNY004 S19

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-06A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-006

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 30.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	82.9			P

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-07A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-007

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 72.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	307			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 S21

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-08A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-008

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 89.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	738			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 S22

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-10A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-010

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 90.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	319			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 S24

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-11A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-011

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 81.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	274			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-12A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-012

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 85.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	597			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-13A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-013

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	308			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 S27

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-14A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-014

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 79.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	141			P

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-15A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-015

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 86.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	276			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-FB

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): WATER Lab Sample ID: 0310665-016

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1.1	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

5. DUPLICATE SUMMARY RESULTS

5.1 METALS

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO

NSS-12A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.2 % Solids for Duplicate: 85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Lead		596.9570		641.6964		7.2		P

6. SPIKE SUMMARY RESULTS

6.1 METALS

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
NSS-12AS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead		619.1235		596.9570		2.35	944.3		P

Comments:

FORM V (Part 1) - IN ILM04.1

VHBNY004 S34

7. BLANK SUMMARY DATA AND RESULTS

7.1 METALS

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead	1.1	U	1.1	U	1.3		1.4		0.240	B	P

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead			1.1	U							P

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead	1.1	U	1.1	U	1.3		1.4		1.100	U	P

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead			1.1	U							P

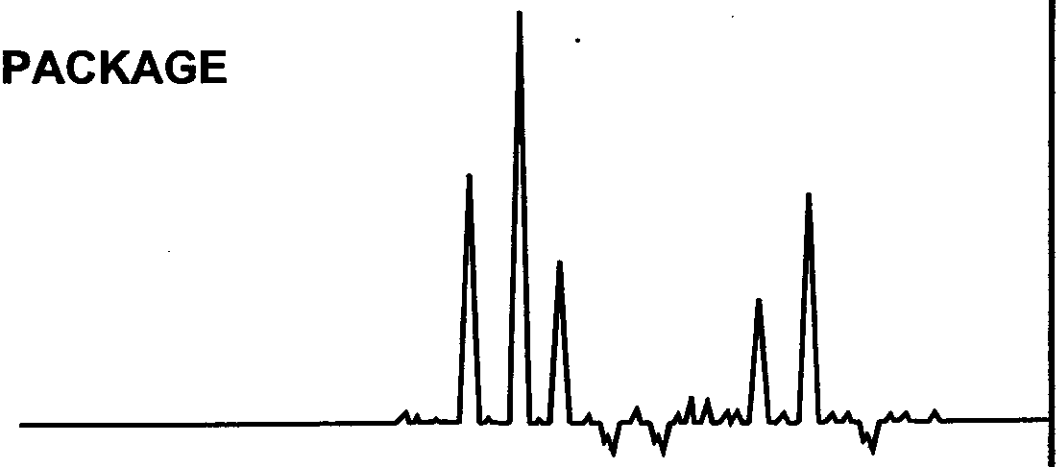
Analytical Data Package For

KEYSPAN
VANASSE HANGEN BRUSTLIN
NEWTOWN STATION
SDG NO: VHBNY004

Soil Samples
Received: 10/22/03

METALS DATA PACKAGE

OCTOBER 2003



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

ANALYTICAL DATA PACKAGE

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KEYSPAN
VANASSE HANGEN BRUSTLIN
NEWTOWN STATION
SOIL SAMPLES
SAMPLES RECEIVED: 10/22/03
SDG NO.: VHBNY004

DATA PACKAGE FOR CLIENT INFORMATION PURPOSES ONLY

I. SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
KEYSPAN – VANASSE HANGEN BRUSTLIN
SOIL SAMPLES
SDG NO.: VHBNY004
SAMPLES RECEIVED: 10/22/03

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*GC VOA	PCBs	*METALS	OTHER
NSS-01A	0310665-001					X	
NSS-02A	0310665-002					X	
NSS-03A	0310665-003					X	
NSS-04A	0310665-004					X	
NSS-05A	0310665-005					X	
NSS-06A	0310665-006					X	
NSS-07A	0310665-007					X	
NSS-08A	0310665-008					X	
NSS-09A	0310665-009					X	
NSS-10A	0310665-010					X	
NSS-11A	0310665-011					X	
NSS-12A	0310665-012					X	
NSS-13A	0310665-013					X	
NSS-14A	0310665-014					X	
NSS-15A	0310665-015					X	
NSS-FB	0310665-016					X	

* Check Appropriate Boxes
* CLP (Non-CLP) (Please indicate year of protocol) ASP B 10/95
* TCL/TAL, HCL, TS
**TCLP METALS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
ENVIRONMENTAL TESTING LABORATORIES, INC.
SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES
SOIL SAMPLES
KEYSPAN-VANASSE HANGEN BRUSTLIN
SDG NO.: VHBNY004
SAMPLES RECEIVED: 10/22/03

SAMPLE ID	MATRIX	ANALYSIS REQUESTED	DATE RECEIVED	DATE * ANALYZED
NSS-01A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-02A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-03A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-04A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-05A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-06A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-07A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-08A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-09A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-10A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-11A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-12A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-13A	SOIL	TOTAL LEAD	10/22/03	10/03
?S-14A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-15A	SOIL	TOTAL LEAD	10/22/03	10/03
NSS-FB	WATER	TOTAL LEAD	10/22/03	10/03

* SEE INDIVIDUAL RUN SHEETS FOR EXACT DATES.
**As, Ba, Cd, Cr, Pb, Se, and Ag

II. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR METALS
SAMPLE RECEIVED: 10/22/03
SDG #: VHBNY004

For Sample:

NSS-01A	NSS-09A
NSS-02A	NSS-10A
NSS-03A	NSS-11A
NSS-04A	NSS-12A MS/MSD
NSS-05A	NSS-13A
NSS-06A	NSS-14A
NSS-07A	NSS-15A
NSS-08A	NSS-FB

One water sample and fifteen soil samples were received by H2M Labs, Inc. on 10/22/03 for lead analysis.

Samples was prepared and analyzed using EPA method 6010B with a TJA61E Trace ICP instrument.

Sample N-12A was utilized for QC analysis and reporting.

Lead spike analysis did not recover within 75-125%. Since the sample value exceeded the spike value by more than four times, post spikes and data qualifiers were not required.

No other problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: October 28, 2003

Vincent Stancampiano
Vice President

VHBNY004 A'o (R)10/31/03

III. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

115

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

CLIENT: KEYVHB-NY

H2M SDG NO: VHBNY004

PROJECT NAME/NUMBER: Newtown Station

SAMPLERS: (signature)/Client

DELIVERABLES: B5-7D

TURNAROUND TIME: 21 Days *

NOTES:

Project Contact: Matt Wawrowski

Phone Number: (716) 655-2734

* 1 Week Verbals

Sample Container Description: 3 Liter / HNO3; 2oz amber jar

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	INORG.: (LEAD) Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
10/21	1545	SOIL	NSS-01A	1				1		0310665-001	
10/21	1545		NSS-02A							2	
10/21	1550		NSS-03A							3	
10/21	1553		NSS-04A							4	
10/21	1555		NSS-05A							5	
10/21	1600		NSS-06A							6	
10/22	840		NSS-07A							7	
10/22	847		NSS-08A							8	
10/22	853		NSS-09A							9	
10/22	858		NSS-10A							10	
10/22	[illegible]	WATER	FB (NSS-FB)	1				1		16	Field Blank

	Date	Time		Date	Time
Relinquished by: (Signature)	10/22/08	1145	Received by: (Signature)	10/22/08	11:45
Relinquished by: (Signature)	10/22/08	1200	Received by: (Signature)	10/22/08	1200
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

VHBNY004 A8

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

115

EXTERNAL CHAIN OF CUSTODY

CLIENT: KEYVHB-NY

H2M SDG NO: VHBNY004

PROJECT NAME/NUMBER: NEWTOWN STATION

SAMPLERS: (signature)/Client

DELIVERABLES: B5-7OD

TURNAROUND TIME: 21 DAYS *

NOTES:

Project Contact: MATT WAWROWSKY

Phone Number: 716 655 2734

* 1 WEEK VERBAL

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Lead Metal	INORG. CN	LAB I.D. NO.	REMARKS:
10/22	905	SOIL	NSS-11A	1				X		0310665-011	
10/22	930	"	NSS-12A	(2)				"		12	DUPLICATE
10/22	935	"	NSS-13A	"				"		13	
10/22	943	"	NSS-14A	"				"		14	
10/22	947	↓	NSS-15A	↓				↓		↓ 15	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/22/03	1145		10/22/03	11:45
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/22/03	1210		10/22/03	1210
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain: _____

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

VHBNY004 A9

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

VHBNY004

H2M LABS, INC.

Sample Receipt Checklist

Client Name KEYVHB-NY

Date and Time Receive 10/22/2003 12:00:00 PM

Work Order Numbe 0310665

Received by AM

Checklist completed b [signature] 10/22/03 (Signature / Date)

Reviewed by SMB 10/22/03 (Initials / Date)

Matrix

Carrier name Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐ 2°6C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

VHBNY004 A10

H2M LABS, INC.

folder 10/22

INTERNAL CHAIN OF CUSTODY

* 1 week verbals *

CLIENT: Key VHB-NY DELIVERABLES: B5-70D TURN AROUND TIME: 21 days

SDG#: VHBNY004 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: PIS#087 Key-UHB Newtown

RECEIVED BY: ASM SIGNATURE: Angela Musi DATE: 10/22/03 TIME: 1200

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
NSS-01A	030665 001A	10/21/03	A	1	6010-S-PKG (Soil)
" D2A	002A				
" 03A	003A				
" 04A	004A				
" 05A	005A				
" 06A	006A				
07A	007A	10/22/03			
" 08A	008A				
" 09A	009A				
" 10A	010A				
" 11A	011A				
" 12A MS/MSD	012A			2	
" 13A	013A			1	
" 14A	014A				
" 15A	015A				
" FB	016A		EN		6010-W-PKG (Soil)
"					
"			ASM		
"				10/22/03	
"					

METALS

VHBNY004 A11

H2M LABS, INC.

CLIENT: KeyVHBNY

TDG #: VHBNY004

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
10/22/03	1500	SIGN [signature]	SIGN [signature]	A, EN	Analysis	
10/22/03	9:00	SIGN [signature]	SIGN [signature]	A	Digestion	
10/22/03	1200	SIGN [signature]	SIGN [signature]	[illegible]	Analysis/Storage	
10/22/03	1530	SIGN [signature]	SIGN [signature]	A	Preserve	✱
10/22/03	1545	SIGN [signature]	SIGN [signature]	A	Storage/Analysis	
10/23/03	7:53	SIGN [signature]	SIGN Melissa Romano	D105	ICP Analysis	
10/23/03	14:37	SIGN Melissa Romano	SIGN [signature]	D105	Storage	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

✱ Signed out of sequence

METALS

IV. ANALYTICAL DATA PACKAGE
A. METALS

H2M LABS, INC.

VHBNY004

METALS

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U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
NSS-01A	0310665-001
NSS-02A	0310665-002
NSS-03A	0310665-003
NSS-04A	0310665-004
NSS-05A	0310665-005
NSS-06A	0310665-006
NSS-07A	0310665-007
NSS-08A	0310665-008
NSS-09A	0310665-009
NSS-10A	0310665-010
NSS-11A	0310665-011
NSS-12A	0310665-012
NSS-12AD	0310665-012DUP
NSS-12AS	0310665-012MS
NSS-13A	0310665-013
NSS-14A	0310665-014
NSS-15A	0310665-015
NSS-FB	0310665-016

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:
Date Reported:10/25/03

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Name: Vincent Stancampiano

Date: 10/28/03 Title: Vice President

H2M LABS, INC.

I. REPORTS FOR METALS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-02A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-002

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 80.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	577			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-03A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-003

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 77.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	530			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-04A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-004

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 76.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	626			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 M8

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-05A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-005

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 81.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	524			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-06A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-006

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 30.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	82.9			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-07A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-007

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 72.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	307			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 M11

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-09A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-009

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 95.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1020			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 M13

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-10A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-010

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 90.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	319			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 M14

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-11A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-011

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 81.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	274			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported: 10/25/03

VHBNY004 M15

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-12A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-012

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 85.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	597			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-13A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-013

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	308			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 M17

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-14A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-014

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 79.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	141			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-15A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Lab Sample ID: 0310665-015

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 86.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	276			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported: 10/25/03

VHBNY004 M19

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

NSS-FB

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): WATER Lab Sample ID: 0310665-016

Level (low/med): LOW Date Received: 10/22/2003

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1.1	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/25/03

VHBNY004 M20

II. QC SUMMARY FOR METALS

A. INITIAL AND CONTINUING CALIBRATION VERIFICATION
B. CRDL STANDARD FOR AA AND ICP
C. METHOD BLANK
D. ICP INTERFERENCE CHECK SAMPLE
E. SPIKE SAMPLE RECOVERY
F. POST DIGEST SPIKE SAMPLE RECOVERY
G. DUPLICATES
H. LABORATORY CONTROL SAMPLE
I. STANDARD ADDITION RESULTS
J. ICP SERIAL DILUTIONS
K. INSTRUMENT DETECTION LIMITS
L. ICP INTERELEMENT CORRECTION FACTORS
M. ICP LINEAR RANGES
N. PREPARATION LOGS
O. ANALYSIS RUN LOGS

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Initial Calibration Verification Source: MV Labs/High Purity

Continuing Calibration Verification Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Lead	500.0	488.62	97.7	500.0	486.00	97.2	480.80	96.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Initial Calibration Verification Source: MV Labs/High Purity

Continuing Calibration Verification Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Lead				500.0	480.59	96.1	481.63	96.3	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

AA CRDL Standard Source:

ICP CRDL Standard Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Lead				6.0	5.91	98.5	8.11	135.2

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead	1.1	U	1.1	U	1.3		1.4		0.240	B	P

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3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead			1.1	U							P

VHBNY004 M26

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead	1.1	U	1.1	U	1.3		1.4		1.100	U	P

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead			1.1	U							P

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

ICP ID Number: TJA61EA ICS Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	498670	492913.4	98.6	505586	505903.3	101.2
Calcium	500000	500000	502536	501228.1	100.2	511430	508422.4	101.7
Iron	200000	200000	200269	200256.8	100.1	205303	203540.2	101.8
Lead		1000		969.8	97.0		980.5	98.0
Magnesium	500000	500000	499819	497454.8	99.5	505034	504282.8	100.9

VHBNY004 M29

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
NSS-12AS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead		619.1235		596.9570		2.35	944.3		P

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO
NSS-12A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.2 % Solids for Duplicate: 85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Lead		596.9570		641.6964		7.2		P

VHBNY004 M31

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Solid LCS Source: ERA

Aqueous LCS Source: MV Labs/High Purity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Lead	500.0	477.48	95.5					

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Solid LCS Source: ERA

Aqueous LCS Source: MV Labs/High Purity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Lead				72.8	59.2		57.7	87.7	70.0

VHBNY004 M33

U.S. EPA - CLP

8
STANDARD ADDITION RESULTS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

NSS-12A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Lead	5086.07		5557.58		9.3		P

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (SEMI ANNUALLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

ICP ID Number: TJA61EA Date: 9/15/2003

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Lead	220.35		3.0	1.1	P

Comments:

U.S. EPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: NRAS No.: SDG No.: VHBNY004

ICP ID Number: TJA61EA Date: 04/01/2003

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Co
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	-0.0170000
Antimony	206.84	0.0000000	0.0000000	0.0274000	0.0000000	-0.0794000
Antimony	206.84	0.0000000	0.0000000	0.0383000	0.0000000	0.0000000
Arsenic	189.04	0.0005500	0.0000000	-0.0100000	0.0000000	-0.2470000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	-0.0004000	0.0000000	0.0016800
Cadmium	226.50	0.0000000	0.0000000	0.0001310	0.0000000	0.0000000
Calcium	317.93	0.0002960	0.0000000	0.0002290	0.0000000	0.0000000
Chromium	267.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000180	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	-0.0000400	0.0000000	-0.0004000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0921300
Lead	220.35	-0.2278000	0.0000000	0.0340000	0.0000000	0.0890000
Lead	220.35	0.4300000	0.0000000	0.0750000	0.0000000	0.1090000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	-0.0001200	0.0000000	0.0000380	0.0000000	-0.0002400
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0004200
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	-0.0063000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.3540000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0034800	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.77	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	-0.0057000	0.0000000	-0.3770000	0.0000000	-0.5780000

Comments:

U.S. EPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: NRAS No.: SDG No.: VHBNY004

ICP ID Number: TJA61EA Date: 04/01/2003

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Co
Tin	189.99	-0.0000100	0.0000000	-0.0003900	0.0000000	-0.0000500
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Zinc	213.86	-0.0000100	0.0000000	0.0001460	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: NRAS No.: SDG No.: VHBNY004

ICP ID Number: TJA61EA Date: 04/01/2003

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	Mn	Ni	V
Aluminum	308.22	0.0000000	0.0000000	-0.0012000	0.0000000	0.0000000
Antimony	206.84	7.1400000	0.0000000	-0.3832000	0.0000000	0.0000000
Antimony	206.84	8.8100000	0.0000000	0.2512000	-1.0850000	-6.3800000
Arsenic	189.04	0.2500000	0.0000000	-0.2010000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000300
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0001900
Boron	249.68	0.0002200	-0.0001000	-0.0001100	-0.0000900	-0.0003900
Cadmium	226.50	0.0000400	0.0000000	0.0000000	-0.0001800	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0018500
Chromium	267.62	0.0000000	-0.0000800	0.0000000	0.0000000	0.0002960
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0001700	0.0000150
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000360
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	-0.0038100	0.0000000	0.0000000
Lead	220.35	0.0000000	-0.0539600	0.1430000	0.1479000	-0.1910000
Lead	220.35	0.0000000	-0.0812000	0.0000000	0.3000000	-0.0190000
Magnesium	279.08	-0.0007900	0.0000000	-0.0052000	-0.0001100	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000960
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0018200
Selenium	196.03	0.0000000	0.0000000	0.3246000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.6184000	0.0000000	0.4522000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0176400	0.0000000	0.1780000	0.0000000	-0.1433000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.77	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.1720000	0.0000000	-0.7417000	0.0000000	-0.8950000

Comments:

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: NRAS No.: SDG No.: VHBNY004

ICP ID Number: TJA61EA Date: 04/01/2003

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	Mn	Ni	V
Tin	189.99	-0.0001100	-0.0001000	-0.0000900	-0.0000800	-0.0000800
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0005000	0.0000000	0.0003670	-0.0000300

Comments:

U.S. EPA - CLP

12
ICP LINEAR RANGES (SEMI ANNUALLY)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

ICP ID Number: TJA61EA Date: 09/15/2003

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Lead	15.00	50000	P

Comments:

FORM XII - IN ILM04.1

VHBNY004 M41

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	10/22/2003	0.50	50
NSS-01A	10/22/2003	0.50	50
NSS-02A	10/22/2003	0.50	50
NSS-03A	10/22/2003	0.50	50
NSS-04A	10/22/2003	0.50	50
NSS-05A	10/22/2003	0.50	50
NSS-06A	10/22/2003	0.50	50
NSS-07A	10/22/2003	0.50	50
NSS-08A	10/22/2003	0.50	50
NSS-09A	10/22/2003	0.50	50
NSS-10A	10/22/2003	0.50	50
NSS-11A	10/22/2003	0.50	50
NSS-12A	10/22/2003	0.50	50
NSS-12AD	10/22/2003	0.50	50
NSS-12AS	10/22/2003	0.50	50
NSS-13A	10/22/2003	0.50	50
NSS-14A	10/22/2003	0.50	50
NSS-15A	10/22/2003	0.50	50
PBS	10/22/2003	0.50	50

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Instrument ID Number: TJA61EA Method: P

Start Date: 10/23/2003 End Date: 10/23/2003

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0744													X												
S	1.00	0753													X												
S	1.00	0801													X												
S	1.00	0808													X												
S	1.00	0815													X												
S	1.00	0824													X												
S	1.00	0831													X												
ICV	1.00	0837													X												
ICB	1.00	0846													X												
CRI	1.00	0855													X												
ICSA	1.00	0904		X						X				X	X	X											
ICSAB	1.00	0914		X						X				X	X	X											
CCV	1.00	0923													X												
CCB	1.00	0932													X												
ZZZZZZ	1.00	0941																									
ZZZZZZ	1.00	0951																									
ZZZZZZ	1.00	1000																									
PBS	1.00	1009													X												
LCSS	1.00	1018													X												
NSS-12A	1.00	1028													X												
NSS-12AD	1.00	1037													X												
NSS-12AS	1.00	1046													X												
NSS-12AL	1.00	1055													X												
NSS-13A	1.00	1104													X												
CCV	1.00	1114													X												
CCB	1.00	1123													X												
NSS-14A	1.00	1132													X												
NSS-15A	1.00	1141													X												
NSS-01A	1.00	1151													X												
NSS-02A	1.00	1200													X												
NSS-03A	1.00	1209													X												
NSS-04A	1.00	1218													X												
NSS-05A	1.00	1228													X												
NSS-06A	1.00	1237													X												
NSS-07A	1.00	1247													X												

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: VHBNY004

Instrument ID Number: TJA61EA Method: P

Start Date: 10/23/2003 End Date: 10/23/2003

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
NSS-08A	1.00	1256													X															
CCV	1.00	1305													X															
CCB	1.00	1314													X															
NSS-09A	1.00	1323													X															
NSS-10A	1.00	1332													X															
NSS-11A	1.00	1342													X															
CRI	1.00	1351													X															
ICSA	1.00	1400		X						X				X	X	X														
ICSAB	1.00	1409		X						X				X	X	X														
CCV	1.00	1418													X															
CCB	1.00	1428													X															

III. RAW DATA FOR METALS

A. ICP DATA

Standards Prep'd: 10/23/03
Source: High Purity / MvLabs

2M LABS, INC.

CLIENT KEYVHBNY004 DATE 10/23/03

TASK: CLP RESULT FILE: VHBNY04 ANALYST Melissa Romano

TYPE TRACE

#	SAMPLE	NOTES	#	SAMPLE	NOTES
1	ICV		26	0310665-005A	NSS-05A
2	ICB		27	-006A	-06A
3	CRI1		28	-007A	-07A
4	ICSAI		29	-008A	-08A
5	ICSABI		30	CCV3	
6	CCV1		31	CCB3	
7	CCB1		32	0310665-009A	NSS-09A
8	MB-8429	KEYVHBNY004 PBW 10/22/03	33	-010A	-10A
9	LCS-8429	KEYVHBNY004 LCSW 10/22/03	34	-011A	-11A
10	0310665-016A	FB	35	CRIF	
11	MB-8428	KEYVHBNY004 PBS 10/22/03	36	ICSAF	
12	LCS-8428	LOT: LCSS 10/22/03	37	ICSABF	
13	0310665-012A	NSS-12A	38	CCV4	
14	-012ADUP	12A DUP	39	CCBF	
15	-012AMS	12A MS	40		
16	-012ASD	12A SD	41		
17	-013A	13A	42		
18	CCV2		43		
19	CCB2		44		
20	0310665-014A	NSS-14A	45		
21	-015A	-15A	46		
22	-001A	-01A	47		
23	-002A	-02A	48		
	-003A	-03A	49		
25	-004A	-04A	50		

Melissa Romano 10/23/03

VHBNY004 M46

VHBNY004.

Standardization Rpt. 10/23/03 07:53:24 AM page 1

KEY VHBNY004

Method: CLP1 Standard: StdBLANK

Run Time: 10/23/03 07:44:16

Melissa Romano 10/23/03

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Avge	-.00423	.0054	.00340	.0012	.0001	-.0011	.0070
SDev	.00013	.0001	.00010	.0001	.0001	.0000	.0000
%RSD	2.9980	2.658	2.7973	6.720	33.35	1.888	.4376
#1	-.00412	.0056	.00339	.0013	.0002	-.0011	.0070
#2	-.00420	.0053	.00349	.0011	.0001	-.0011	.0071
#3	-.00437	.0054	.00330	.0012	.0001	-.0012	.0070

Elem	Cd	Co	Cr	Cu	Fe	Fe	K
Avge	-.0019	-.0002	.0001	.0035	.0000	.0181	.0072
SDev	.0008	.0000	.0002	.0000	.0000	.0037	.0003
%RSD	39.91	23.01	204.1	1.025	43.28	20.54	3.402
#1	-.0027	-.0002	.0000	.0035	.0000	.0220	.0074
#2	-.0013	-.0002	.0003	.0035	.0000	.0178	.0073
#3	-.0017	-.0001	-.0000	.0034	.0000	.0146	.0069

Elem	Mg	Mn	Mo	Na	Na	Ni	2203/1
Avge	.0002	.0004	.0001	-.0257	.5529	.0002	.02413
SDev	.0002	.0001	.0001	.0010	.0027	.0002	.01076
%RSD	78.82	33.12	114.5	3.944	.4866	91.70	44.597
#1	.0004	.0005	.0002	-.0265	.5560	.0000	.01522
#2	.0003	.0004	.0001	-.0260	.5520	.0004	.02108
#3	.0000	.0002	-.0000	-.0245	.5509	.0003	.03609

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	Si	Sn
Avge	.00047	-.00223	.00027	-.01041	.00211	.0378	.0040
SDev	.00171	.00195	.00071	.00077	.00051	.0004	.0007
%RSD	363.21	87.540	265.90	7.3803	24.119	1.116	16.66
#1	.00239	-.00057	.00084	-.01023	.00237	.0378	.0047
#2	-.00009	-.00173	.00048	-.01125	.00244	.0383	.0033
#3	-.00089	-.00437	-.00052	-.00974	.00153	.0374	.0041

Elem	Sr	Ti	Tl1908	V	Zn
Avge	.0001	.0000	-.00489	.0000	.0010
SDev	.0001	.0000	.00135	.0001	.0000
%RSD	36.70	86.60	27.634	132.2	3.746
#1	.0002	.0000	-.00643	.0001	.0011
#2	.0001	.0000	-.00438	.0001	.0010
#3	.0001	.0000	-.00387	-.0000	.0010

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Method: CLP1 Standard: StdAGSBH
un Time: 10/23/03 07:53:30

E...t	Ag	2068/1	2068/2
Avge	.80553	3.1715	2.0453
SDev	.00233	.0636	.0182
%RSD	.28961	2.0058	.88748
#1	.80286	3.1013	2.0247
#2	.80656	3.1877	2.0526
#3	.80717	3.2254	2.0587

Method: CLP1 Standard: StdICSH
Run Time: 10/23/03 08:01:10

Lmn	Al	Ca	Fe	Mg
Avge	35.47	60.38	.7075	80.06
SDev	.05	.10	.0007	.10
%RSD	.1464	.1586	.0991	.1259
#1	35.52	60.43	.7075	80.11
#2	35.42	60.27	.7068	79.94
#3	35.46	60.43	.7082	80.12

Method: CLP1 Standard: StdFURNH
un Time: 10/23/03 08:08:03

m	As1890	2203/1	2203/2	1960/1	1960/2	Tl1908
vge	1.3296	4.8576	2.0086	.90942	.67158	1.1550
Dev	.0012	.0113	.0124	.00084	.00560	.0021
%RSD	.08682	.23354	.61852	.09215	.83305	.18267
1	1.3300	4.8468	2.0016	.91015	.66636	1.1551
#2	1.3305	4.8694	2.0229	.90851	.67748	1.1570
#3	1.3283	4.8565	2.0012	.90961	.67089	1.1528

Method: CLP1 Standard: StdMULTH
Run Time: 10/23/03 08:15:43

Elem	B	Ba	Be	Cd	Co	Cr	Cu
Avge	1.830	5.809	7.653	71.18	2.191	2.829	1.605
SDev	.010	.027	.038	.47	.013	.015	.007
%RSD	.5626	.4609	.5019	.6556	.5976	.5350	.4364
#1	1.824	5.800	7.626	70.85	2.182	2.820	1.603
#2	1.824	5.788	7.636	70.98	2.185	2.821	1.599
#3	1.842	5.839	7.697	71.72	2.206	2.847	1.613

Elem	Mn	Mo	Ni	Si	Sn	Sr	Ti
Avge	19.55	2.025	2.271	2.377	11.02	11.53	2.244
SDev	.10	.015	.010	.013	.08	.05	.012
%RSD	.5152	.7436	.4606	.5299	.7053	.4317	.5159
#1	19.48	2.013	2.264	2.370	10.98	11.52	2.238
#2	19.50	2.019	2.266	2.369	10.97	11.49	2.237
#3	19.67	2.042	2.283	2.391	11.11	11.59	2.257

Elem	V	Zn
Avge	1.357	5.045
SDev	.007	.024
%RSD	.5200	.4662
#1	1.353	5.029
#2	1.353	5.034
#3	1.365	5.072

Method: CLP1 Standard: StdFENAL
un Time: 10/23/03 08:24:10

n	Fe	Na
Avge	46.53	54.48
SDev	.16	.24
%RSD	.3470	.4427
#1	46.69	54.49
#2	46.53	54.23
#3	46.37	54.71

Method: CLP1 Standard: StdNAKH
un Time: 10/23/03 08:31:03

n	K	Na
Avge	11.01	2.472
SDev	.03	.009
%RSD	.2565	.3736
#1	11.01	2.475
#2	11.04	2.480
#3	10.98	2.462

Standardization Report 10/23/03 08:37:03 AM page 1

Method: CLP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	StdAGSBH	StdBLANK	2469.87	10.4507	10/23/03 08:31:03
Al	308.215	StdICSH	StdBLANK	14.0998	-.076691	10/23/03 08:31:03
As1890	189.042	StdFURNH	StdBLANK	754.038	-2.56053	10/23/03 08:31:03
B	249.678	StdMULTH	StdBLANK	2.73866	-.003225	10/23/03 08:31:03
Ba	493.409	StdMULTH	StdBLANK	.860734	-.000118	10/23/03 08:31:03
Be	313.042	StdMULTH	StdBLANK	.653369	.000744	10/23/03 08:31:03
Ca	317.933	StdICSH	StdBLANK	.810072	.002096	10/23/03 08:31:03
Cd	226.502	StdMULTH	StdBLANK	.070231	.000133	10/23/03 08:31:03
Co	228.616	StdMULTH	StdBLANK	2.28208	.000347	10/23/03 08:31:03
Cr	267.716	StdMULTH	StdBLANK	1.76766	-.000134	10/23/03 08:31:03
Cu	324.754	StdMULTH	StdBLANK	3.12094	-.010835	10/23/03 08:31:03
Fe	271.441	StdICSH	StdBLANK	.852186	.000029	10/23/03 08:31:03
K	259.940	StdFENAL	StdBLANK	.107506	-.001948	10/23/03 08:31:03
Mg	766.491	StdNAKH	StdBLANK	.726603	.001520	10/23/03 08:31:03
Mn	279.079	StdICSH	StdBLANK	.782308	.000400	10/23/03 08:31:03
Mo	257.610	StdMULTH	StdBLANK	.255770	-.000093	10/23/03 08:31:03
Na	202.030	StdMULTH	StdBLANK	2.46974	-.000225	10/23/03 08:31:03
Ni	330.232	StdNAKH	StdBLANK	.807185	-.007869	10/23/03 08:31:03
P	588.995	StdFENAL	StdBLANK	.092718	-.051268	10/23/03 08:31:03
Pb	231.604	StdMULTH	StdBLANK	2.20136	-.000502	10/23/03 08:31:03
2203/1	220.351	StdFURNH	StdBLANK	206.892	-4.99229	10/23/03 08:31:03
2203/2	220.352	StdFURNH	StdBLANK	497.978	-.234576	10/23/03 08:31:03
2068/1	206.831	StdAGSBH	StdBLANK	630.177	1.40216	10/23/03 08:31:03
2068/2	206.832	StdAGSBH	StdBLANK	977.969	-.260323	10/23/03 08:31:03
1960/1	196.021	StdFURNH	StdBLANK	1087.16	11.3151	10/23/03 08:31:03
1960/2	196.022	StdFURNH	StdBLANK	1493.73	-3.15501	10/23/03 08:31:03
Se	288.158	StdMULTH	StdBLANK	2.12093	-.040483	10/23/03 08:31:03
Sn	189.989	StdMULTH	StdBLANK	.453844	-.001837	10/23/03 08:31:03
Sr	421.552	StdMULTH	StdBLANK	.433618	-.000056	10/23/03 08:31:03
Ti	334.941	StdMULTH	StdBLANK	2.22832	-.000068	10/23/03 08:31:03
Tl1908	190.864	StdFURNH	StdBLANK	862.163	4.21790	10/23/03 08:31:03
V	292.402	StdMULTH	StdBLANK	3.68415	-.000168	10/23/03 08:31:03
Zn	213.856	StdMULTH	StdBLANK	.991272	-.001039	10/23/03 08:31:03
Pb2203	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se1960	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED

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Method: CLP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
A	328.068	StdBLANK	.000000	-.000000	.000000
		StdAGSBH	2000.00	2000.00	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	308.215	StdBLANK	.000000	-.000000	.000000
		StdICSH	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	StdBLANK	.000000	.000000	-.000000
		StdFURNH	1000.00	1000.00	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	249.678	StdBLANK	.000000	-.000000	.000000
		StdMULTH	5.00000	5.00840	-.008400
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.409	StdBLANK	.000000	.000000	-.000000
		StdMULTH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	313.042	StdBLANK	.000000	.000000	-.000000
		StdMULTH	5.00000	5.00095	-.000950
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Ca	317.933	StdBLANK	.007782	.007019	.000763
		StdICSH	48.9123	60.3777	-11.4653
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	226.502	StdBLANK	.000000	-.000000	.000000
		StdMULTH	5.00000	4.99930	.000700
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.616	StdBLANK	.000000	-.000000	.000000
		StdMULTH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
	267.716	StdBLANK	.000000	-.000000	.000000
		StdMULTH	5.00000	5.00108	-.001080
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.754	StdBLANK	.000000	-.000000	.000000
		StdMULTH	5.00000	4.99875	.001245

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
[redacted]	271.441	StdBLANK	.000055	.000030	.000024
		StdICSH	.602976	.707531	-.104554

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.940	StdBLANK	.000000	-.000000	.000000
		StdFENAL	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
[redacted]	766.491	StdBLANK	.006759	.007209	-.000451
		StdNAKH	8.00205	11.0109	-3.00882

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Mg	279.079	StdBLANK	.000584	.000236	.000349
		StdICSH	62.6316	80.0595	-17.4279

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[redacted]	257.610	StdBLANK	.000000	.000000	-.000000
		StdMULTH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.030	StdBLANK	.000000	.000000	-.000000
		StdMULTH	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
[redacted]	330.232	StdBLANK	-.028601	-.025685	-.002916
		StdNAKH	1.98779	2.47236	-.484578

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.995	StdBLANK	.000000	.000000	-.000000
		StdFENAL	5.00000	5.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[redacted]	231.604	StdBLANK	.000000	.000000	-.000000
		StdMULTH	5.00000	4.99790	.002100

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[redacted] 203/1	220.351	StdBLANK	.000000	.000000	-.000000
		StdFURNH	1000.00	1000.000	.000061

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[redacted] 3/2	220.352	StdBLANK	.000000	.000000	-.000000
		StdFURNH	1000.00	1000.00	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
[redacted] /1	206.831	StdBLANK	.000000	.000000	-.000000
		StdAGSBH	2000.00	2000.00	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/2	206.832	StdBLANK	.000000	.000000	-.000000
		StdAGSBH	2000.00	2000.00	.000000
[redacted]	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	StdBLANK	.000000	-.000000	.000000
		StdFURNH	1000.00	1000.000	.000061
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	StdBLANK	.000000	.000000	-.000000
		StdFURNH	1000.00	1000.00	.000000
[redacted]	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
S	288.158	StdBLANK	.039723	.037816	.001906
		StdMULTH	5.00000	2.37654	2.62346
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	189.989	StdBLANK	.000000	.000000	-.000000
		StdMULTH	5.00000	4.99870	.001300
[redacted]	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
S	421.552	StdBLANK	.000000	.000000	-.000000
		StdMULTH	5.00000	5.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.941	StdBLANK	.000000	-.000000	.000000
		StdMULTH	5.00000	5.00000	.000000
[redacted]	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl 908	190.864	StdBLANK	.000000	-.000000	.000000
		StdFURNH	1000.00	1000.00	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	StdBLANK	.000000	-.000000	.000000
		StdMULTH	5.00000	5.00000	.000000
[redacted]	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.856	StdBLANK	.000000	.000000	-.000000
		StdMULTH	5.00000	5.00000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P 2203	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Method: CLP1 Sample Name: ICV Operator: MMR
Run Time: 10/23/03 08:37:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	983.11	51.18	481.61	2.444	2.508	2.515	51.59
SDev	5.56	.38	2.88	.012	.013	.009	.20
%RSD	.56604	.7502	.59874	.4971	.5145	.3688	.3946
#1	987.27	51.49	478.74	2.452	2.515	2.516	51.66
#2	985.27	51.29	484.51	2.450	2.517	2.524	51.76
#3	976.79	50.75	481.57	2.430	2.494	2.506	51.37
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.511	2.476	2.499	2.514	49.43	82.66	51.62
SDev	.009	.011	.010	.021	.16	.89	.26
%RSD	.3523	.4539	.4141	.8179	.3173	1.072	.4986
#1	2.503	2.480	2.501	2.530	49.40	83.47	51.73
#2	2.520	2.485	2.508	2.521	49.61	82.80	51.79
#3	2.511	2.463	2.487	2.491	49.30	81.72	51.32
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.487	2.523	80.78	2.503	490.99	487.43	1034.5
SDev	.011	.011	1.12	.008	4.23	1.72	1.7
%RSD	.4295	.4547	1.381	.3196	.86106	.35313	.16436
#1	2.490	2.513	81.86	2.496	492.08	489.02	1036.5
#2	2.496	2.536	80.86	2.512	494.57	485.61	1033.7
#3	2.476	2.521	79.63	2.501	486.32	487.67	1033.4
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	2.750		88.00	2.750			
Low	2.250		72.00	2.250			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1017.0	498.09	491.78	2.139	2.477	2.460	2.514
SDev	8.1	3.45	1.67	.015	.014	.016	.010
%RSD	.80070	.69278	.33928	.6799	.5622	.6455	.3973
#1	1020.9	499.57	492.08	2.150	2.482	2.468	2.514
#2	1022.6	500.55	493.27	2.144	2.488	2.470	2.524
#3	1007.7	494.14	489.98	2.122	2.461	2.442	2.504
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M59

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	482.86	2.496	2.596	488.62	1022.9	493.88
SDev	3.07	.011	.012	1.41	5.7	2.25
%RSD	.63584	.4383	.4750	.28864	.55949	.45518
#1	484.19	2.499	2.602	490.04	1026.1	494.58
#2	485.05	2.505	2.605	488.59	1026.3	495.70
#3	479.35	2.484	2.582	487.22	1016.3	491.37
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.00	2.750	2.750	550.00	1100.0	550.00
Low	450.00	2.250	2.250	450.00	900.00	450.00

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Method: CLP1 Sample Name: ICB Operator: MMR
Run Time: 10/23/03 08:46:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.56660	.0196	-.50120	.0040	.0008	.0008	.0485
SDev	.04130	.0026	1.36241	.0003	.0002	.0001	.0032
%RSD	7.2897	13.01	271.83	7.296	20.55	17.67	6.692
#1	.59345	.0224	1.0642	.0043	.0009	.0009	.0519
#2	.51904	.0189	-1.4193	.0038	.0008	.0007	.0483
#3	.58731	.0175	-1.1485	.0038	.0006	.0006	.0454
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.2000	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.2000	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.0011	.0010	.0010	.0150	.0779	.0155
SDev	.0002	.0002	.0003	.0003	.0024	.0159	.0032
%RSD	21.91	16.31	27.02	32.12	15.69	20.37	20.68
#1	.0011	.0009	.0011	.0013	.0174	.0945	.0179
#2	.0009	.0013	.0012	.0011	.0149	.0761	.0168
#3	.0007	.0011	.0007	.0006	.0127	.0630	.0119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0009	.0098	.0467	.0011	-.77584	1.7135	1.8859
SDev	.0001	.0024	.0137	.0001	.70997	.7192	1.3260
%RSD	15.52	24.77	29.36	11.85	91.511	41.969	70.311
#1	.0010	.0124	.0618	.0010	-1.5801	2.3776	2.2299
#2	.0009	.0094	.0434	.0010	-.51143	.94972	3.0060
#3	.0007	.0076	.0350	.0012	-.23600	1.8133	.42182
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.0150		5.000	.0400			
Low	-.0150		-5.000	-.0400			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	-1.0706	1.0499	2.1471	.0398	.0013	.0008	.0010
SDev	.3332	1.3952	1.6538	.0006	.0009	.0002	.0002
%RSD	31.126	132.89	77.024	1.455	71.53	21.98	19.64
#1	-1.1329	2.5379	2.7045	.0405	.0003	.0010	.0012
#2	-.71065	-.22882	.28664	.0395	.0021	.0008	.0010
#3	-1.3683	.84057	3.4503	.0395	.0015	.0006	.0008
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M61

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	1.4234	.0010	.0008	.88462	-.08610	1.7817
SDev	.5486	.0002	.0001	.36669	.65268	1.4439
%RSD	38.540	22.39	6.668	41.451	758.01	81.036
#1	1.6435	.0013	.0008	1.0597	-.01309	2.6490
#2	1.8277	.0008	.0007	.46320	.52700	.11499
#3	.79894	.0009	.0007	1.1309	-.77222	2.5812
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.0500	.0200	3.0000	60.000	5.0000
Low	-10.000	-.0500	-.0200	-3.0000	-60.000	-5.0000

VHBNY004 M62

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Method: CLP1 Sample Name: CRII Operator: MMR
Run Time: 10/23/03 08:55:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	19.877	.0141	16.954	.1968	.0002	.0105	.0278
Dev	.279	.0018	.882	.0003	.0001	.0001	.0027
%RSD	1.4030	12.94	5.2045	.1471	57.74	.5876	9.558
#1	19.820	.0126	17.930	.1967	.0003	.0106	.0307
#2	19.631	.0161	16.718	.1971	.0002	.0105	.0270
#3	20.180	.0136	16.213	.1966	.0001	.0105	.0256

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0107	.1023	.0210	.0501	.0037	.0535	.0073
Dev	.0002	.0001	.0002	.0004	.0014	.0074	.0032
%RSD	1.735	.1477	.9975	.7802	39.56	13.88	43.68
#1	.0108	.1022	.0208	.0503	.0053	.0615	.0109
#2	.0108	.1025	.0212	.0503	.0030	.0523	.0062
#3	.0105	.1023	.0210	.0496	.0026	.0467	.0048

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0309	.0260	.0251	.0834	6.5516	5.5898	116.85
Dev	.0001	.0003	.0054	.0003	.8463	1.5502	4.26
%RSD	.4718	1.347	21.69	.3665	12.918	27.732	3.6456
#1	.0310	.0263	.0313	.0833	7.1782	5.7921	112.49
#2	.0309	.0261	.0229	.0837	5.5888	3.9485	117.04
#3	.0307	.0256	.0211	.0831	6.8876	7.0290	121.00

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	119.29	13.455	10.824	.1464	.0817	.0002	.2064
Dev	1.97	3.848	1.289	.0005	.0008	.0001	.0005
%RSD	1.6550	28.598	11.912	.3282	1.032	48.06	.2446
#1	117.71	13.458	11.637	.1467	.0822	.0003	.2058
#2	118.66	17.300	9.3375	.1466	.0807	.0002	.2066
#3	121.50	9.6049	11.498	.1459	.0822	.0001	.2068

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	19.490	.1014	.0429	5.9101	118.48	11.700
Dev	.902	.0003	.0001	1.2787	2.70	.732
%RSD	4.6260	.2777	.2537	21.636	2.2792	6.2588
#1	19.518	.1011	.0429	6.2536	115.97	12.244
#2	18.575	.1015	.0431	4.4947	118.12	11.989
#3	20.377	.1017	.0429	6.9819	121.34	10.867

VHBNY004 M63

Method: CLP1 Sample Name: ICSAI Operator: MMR
Run Time: 10/23/03 09:04:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.37037	498.7	-5.7641	.0050	.0014	.0003	502.5
SDev	.20739	.2	2.9173	.0002	.0001	.0000	1.5
%RSD	55.997	.0470	50.611	3.268	5.506	2.874	.2952
#1	.25558	498.9	-8.3464	.0050	.0013	.0003	500.8
#2	.24574	498.5	-6.3461	.0048	.0015	.0003	503.3
#3	.60978	498.5	-2.5996	.0052	.0014	.0003	503.5
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	10.000	600.0			.2000	.0050	600.0
Low	-10.000	400.0			-.2000	-.0050	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0001	-.0001	.0058	200.3	.0571	499.8
SDev	.0002	.0004	.0005	.0001	.5	.0050	1.2
%RSD	30.57	291.8	356.8	1.909	.2675	8.775	.2412
#1	-.0008	-.0003	-.0007	.0057	199.7	.0518	498.4
#2	-.0004	.0005	-.0000	.0059	200.4	.0617	500.3
#3	-.0008	.0002	.0003	.0057	200.7	.0577	500.7
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High	.0050		.0100		240.0		600.0
Low	-.0050		-.0100		160.0		400.0

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0009	-.0034	.0354	.0025	-12.569	6.5816	-.74158
SDev	.0001	.0006	.0006	.0004	4.528	2.2764	7.94315
%RSD	10.40	18.81	1.690	15.31	36.027	34.587	1071.1
#1	.0008	-.0035	.0360	.0021	-17.079	8.6834	8.1692
#2	.0010	-.0040	.0355	.0025	-8.0226	4.1637	-7.0791
#3	.0010	-.0027	.0348	.0029	-12.607	6.8979	-3.3148
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.0150			.0400			
Low	-.0150			-.0400			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	5.9465	3.7990	2.8297	.0574	.0430	-.3267	.0030
SDev	5.6838	8.1343	3.4862	.0009	.0020	.0009	.0001
%RSD	95.583	214.11	123.20	1.609	4.714	.2793	3.902
#1	-.60565	-4.5296	6.6370	.0570	.0406	-.3277	.0028
#2	9.5512	11.724	2.0584	.0585	.0443	-.3265	.0031
#3	8.8940	4.2028	-.20628	.0568	.0439	-.3259	.0030
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M64

Method: CLP1 Sample Name: ICSABI Operator: MMR
Run Time: 10/23/03 09:14:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1061.6	492.9	1008.5	.9374	.5195	.5077	501.2
SDev	1.2	.5	4.2	.0017	.0002	.0022	1.8
%RSD	.10844	.0943	.42033	.1825	.0340	.4242	.3629
#1	1061.5	492.8	1011.7	.9377	.5197	.5094	502.8
#2	1060.6	492.5	1010.0	.9389	.5193	.5084	501.6
#3	1062.8	493.4	1003.7	.9355	.5195	.5052	499.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.0	600.0	1200.0	1.200	.6000	.6000	600.0
Low	800.00	400.0	800.00	.8000	.4000	.4000	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9717	.4833	.4890	.5455	200.3	.0510	497.5
SDev	.0059	.0018	.0015	.0009	.9	.0040	1.2
%RSD	.6091	.3696	.3000	.1615	.4291	7.750	.2424
#1	.9763	.4853	.4904	.5449	200.9	.0552	498.6
#2	.9737	.4830	.4890	.5450	200.6	.0506	497.6
#3	.9650	.4817	.4875	.5465	199.3	.0473	496.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	1.200	.6000	.6000	.6000	240.0		600.0
Low	.8000	.4000	.4000	.4000	160.0		400.0

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.4959	1.030	.0378	.9661	958.83	975.22	-6.4610
SDev	.0014	.003	.0003	.0043	8.10	2.65	.2675
%RSD	.2792	.3289	.9082	.4434	.84508	.27210	4.1402
#1	.4972	1.026	.0374	.9696	967.77	974.48	-6.1842
#2	.4959	1.033	.0379	.9673	951.96	978.17	-6.7181
#3	.4944	1.030	.0380	.9613	956.77	973.03	-6.4807
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.6000			1.200			
Low	.4000			.8000			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	-5.2046	989.95	988.37	.5899	1.045	-.3201	.0023
SDev	3.6215	7.54	3.29	.0015	.006	.0008	.0002
%RSD	69.584	.76128	.33247	.2468	.5973	.2355	7.897
#1	-1.6336	998.46	986.73	.5884	1.050	-.3210	.0024
#2	-8.8746	987.30	992.15	.5913	1.046	-.3195	.0024
#3	-5.1056	984.10	986.22	.5901	1.038	-.3199	.0021
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M66

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	969.07	.4973	1.069	969.77	-5.6230	988.90
SDev	2.18	.0014	.002	2.33	2.5043	2.93
%RSD	.22474	.2728	.1903	.24050	44.537	.29611
#1	971.35	.4983	1.070	972.24	-3.1489	990.64
#2	968.87	.4978	1.070	969.44	-8.1565	990.53
#3	967.00	.4958	1.067	967.61	-5.5635	985.52
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	1200.0	.6000	1.200	1200.0		1200.0
Low	800.00	.4000	.8000	800.00		800.00

Method: CLP1 Sample Name: CCV1 Operator: MMR
Run Time: 10/23/03 09:23:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	989.90	51.43	480.10	2.448	2.508	2.501	51.29
SDev	3.01	.22	1.99	.009	.008	.007	.15
%RSD	.30375	.4183	.41448	.3598	.3337	.2726	.3007
#1	992.50	51.61	477.96	2.453	2.516	2.503	51.35
#2	986.60	51.19	480.46	2.438	2.499	2.493	51.12
#3	990.59	51.47	481.89	2.453	2.510	2.506	51.41
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.485	2.456	2.490	2.527	49.21	83.79	51.47
SDev	.008	.007	.006	.010	.17	.46	.17
%RSD	.3282	.2821	.2562	.3844	.3403	.5460	.3225
#1	2.488	2.458	2.494	2.536	49.28	84.28	51.57
#2	2.476	2.448	2.482	2.517	49.01	83.37	51.28
#3	2.491	2.462	2.493	2.528	49.32	83.71	51.55
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.478	2.510	81.96	2.481	485.29	486.35	1035.4
SDev	.007	.009	.07	.008	1.09	.63	2.7
%RSD	.2835	.3551	.0898	.3370	.22445	.12918	.25902
#1	2.482	2.507	82.01	2.485	484.51	486.65	1037.7
#2	2.470	2.504	82.00	2.471	486.54	485.62	1032.5
#3	2.482	2.520	81.88	2.487	484.83	486.76	1036.0
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	2.750		88.00	2.750			
Low	2.250		72.00	2.250			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1015.6	495.40	493.21	2.149	2.439	2.460	2.514
SDev	4.0	3.97	1.32	.007	.003	.009	.008
%RSD	.39591	.80209	.26845	.3348	.1273	.3604	.3314
#1	1014.5	490.84	494.68	2.156	2.440	2.468	2.520
#2	1012.3	498.05	492.85	2.141	2.436	2.451	2.505
#3	1020.1	497.33	492.11	2.149	2.442	2.462	2.519
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M68

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	479.02	2.488	2.595	486.00	1022.2	493.94
StDev	2.98	.008	.008	.11	3.2	.60
%RSD	.62260	.3281	.2927	.02196	.31208	.12060
#1	480.54	2.493	2.600	485.94	1022.2	493.40
#2	475.58	2.479	2.586	485.93	1019.0	494.58
#3	480.94	2.493	2.598	486.12	1025.4	493.85
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.00	2.750	2.750	550.00	1100.0	550.00
Low	450.00	2.250	2.250	450.00	900.00	450.00

VHBNY004 M69

Method: CLP1 Sample Name: CCB1 Operator: MMR
Run Time: 10/23/03 09:32:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.51588	.0517	-1.2901	.0032	.0006	.0006	.0725
SDev	.19054	.0128	.1873	.0005	.0003	.0002	.0178
%RSD	36.934	24.84	14.517	15.64	44.64	32.89	24.54
#1	.68294	.0602	-1.3716	.0035	.0008	.0008	.0871
#2	.30836	.0579	-1.4228	.0033	.0006	.0006	.0777
#3	.55633	.0369	-1.0759	.0026	.0003	.0004	.0527
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.2000	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.2000	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0010	.0007	.0004	.0228	.0627	.0408
SDev	.0002	.0004	.0003	.0002	.0075	.0115	.0180
%RSD	33.41	37.74	41.95	50.89	32.91	18.30	44.20
#1	.0009	.0014	.0010	.0006	.0288	.0726	.0549
#2	.0008	.0011	.0005	.0004	.0253	.0654	.0470
#3	.0005	.0006	.0005	.0002	.0144	.0501	.0205
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0007	.0095	.0329	.0009	-.67772	.39335	1.3270
SDev	.0003	.0027	.0100	.0006	1.54085	1.3657	1.9759
%RSD	43.55	28.92	30.33	61.30	227.36	347.19	148.90
#1	.0009	.0125	.0432	.0014	.82922	-.86392	-.46334
#2	.0008	.0089	.0323	.0011	-.61200	.19765	.99723
#3	.0004	.0071	.0233	.0003	-2.2504	1.8463	3.4470
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.0150		5.000	.0400			
Low	-.0150		-5.000	-.0400			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1.5283	3.3887	2.8987	.0398	.0005	.0006	.0008
SDev	.8447	1.0108	1.9320	.0003	.0001	.0002	.0004
%RSD	55.271	29.829	66.649	.7647	16.68	38.50	45.87
#1	.55829	4.3818	4.7433	.0396	.0005	.0008	.0011
#2	2.1018	3.4233	.88988	.0401	.0004	.0006	.0009
#3	1.9249	2.3611	3.0628	.0396	.0006	.0003	.0004
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M70

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	.57781	.0007	.0004	.03673	1.4613	3.0619
SDev	.77774	.0001	.0003	.40228	1.1317	1.4587
%RSD	134.60	10.67	69.16	1095.2	77.448	47.641
#1	.05247	.0007	.0006	-.30006	.21811	4.6229
#2	1.4713	.0008	.0004	-.07192	1.7340	1.7335
#3	.20969	.0007	.0001	.48217	2.4318	2.8292
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.0500	.0200	3.0000	60.000	5.0000
Low	-10.000	-.0500	-.0200	-3.0000	-60.000	-5.0000

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Method: CLP1 Sample Name: MB-8429
Run Time: 10/23/03 09:41:51 Operator: MMR
Comment: ?ow 10/22/03 KeyVHBNY004
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	-.02130	.0167	-3.5565	.0082	.0001	.0001	.0358
SDev	.15465	.0047	1.6066	.0003	.0000	.0000	.0054
%RSD	726.15	28.14	45.174	3.111	24.55	39.70	15.09
#1	.03794	.0220	-5.2570	.0081	.0001	.0001	.0420
#2	-.19681	.0129	-3.3482	.0085	.0001	.0001	.0323
#3	.09498	.0152	-2.0642	.0080	.0001	.0001	.0330
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.2000	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.2000	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0004	.0005	.0017	.0068	.0412	.0097
SDev	.0001	.0003	.0003	.0001	.0022	.0044	.0041
%RSD	44.66	68.75	64.51	5.955	33.14	10.76	42.49
#1	.0002	.0006	.0005	.0016	.0093	.0375	.0137
#2	.0001	.0001	.0002	.0016	.0054	.0400	.0055
#3	.0002	.0006	.0009	.0018	.0055	.0461	.0098
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0001	.0016	.0177	.0021	.05221	-.16667	-1.3855
SDev	.0001	.0004	.0014	.0003	2.3579	1.03611	2.6619
%RSD	81.04	24.34	7.927	12.58	4516.2	621.64	192.12
#1	.0001	.0020	.0193	.0018	-2.6603	.95719	1.6803
#2	.0000	.0017	.0174	.0020	1.6125	-1.0839	-2.7281
#3	.0003	.0012	.0165	.0023	1.2044	-.37333	-3.1087
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.0150		5.000	.0400			
Low	-.0150		-5.000	-.0400			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	.80034	5.1869	.68139	.0628	-.0009	.0001	.0002
SDev	1.4787	1.2336	1.3068	.0002	.0006	.0000	.0001
%RSD	184.76	23.783	191.79	.3155	71.32	73.46	54.49
#1	-.19772	3.9944	2.1863	.0630	-.0009	.0000	.0002
#2	2.4991	6.4578	-.16765	.0627	-.0003	.0000	.0001
#3	.09961	5.1084	.02557	.0626	-.0016	.0001	.0003
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M72

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	.71469	.0000	.0042	-.09374	.07247	2.1817
SDev	1.1306	.0003	.0001	.21511	.91674	.5493
%RSD	158.19	1387.	1.404	229.47	1265.0	25.176
#1	-.13667	-.0000	.0043	-.24738	.42768	2.7884
#2	1.9975	-.0003	.0041	-.18594	.75845	2.0386
#3	.28327	.0003	.0042	.15210	-.96873	1.7181
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.0500	.0200	3.0000	60.000	5.0000
Low	-10.000	-.0500	-.0200	-3.0000	-60.000	-5.0000

VHBNY004 M73

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Method: CLP1 Sample Name: LCS-8429
Run Time: 10/23/03 09:51:05 Operator: MMR
Comment: LCSW 10/22/03 KEYVHBNY004
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	983.11	50.63	465.72	2.260	2.489	2.521	51.03
SDev	3.39	.11	3.18	.008	.011	.018	.34
%RSD	.34468	.2182	.68263	.3738	.4598	.7208	.6674
#1	987.00	50.75	467.89	2.269	2.502	2.540	51.38
#2	981.55	50.62	467.20	2.258	2.485	2.518	50.99
#3	980.78	50.53	462.07	2.252	2.480	2.504	50.71
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.0	60.00	600.00	3.000	3.000	3.000	60.00
Low	800.00	40.00	400.00	2.000	2.000	2.000	40.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.512	2.442	2.488	2.495	49.00	78.13	50.74
SDev	.021	.018	.016	.009	.30	.17	.34
%RSD	.8196	.7186	.6582	.3647	.6129	.2161	.6708
#1	2.533	2.461	2.506	2.506	49.29	78.32	51.10
#2	2.512	2.439	2.485	2.492	49.01	77.99	50.70
#3	2.491	2.426	2.473	2.489	48.69	78.10	50.42
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	3.000	3.000	3.000	3.000	60.00	96.00	60.00
Low	2.000	2.000	2.000	2.000	40.00	64.00	40.00

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.472	2.538	78.76	2.507	474.51	478.97	1014.5
SDev	.016	.012	.32	.018	3.43	.94	.9
%RSD	.6439	.4908	.4120	.7325	.72254	.19569	.09341
#1	2.490	2.551	78.52	2.526	478.39	479.43	1015.5
#2	2.469	2.536	78.65	2.505	473.25	477.89	1013.6
#3	2.458	2.526	79.13	2.489	471.88	479.59	1014.5
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	3.000		96.00	3.000			
Low	2.000		64.00	2.000			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1002.7	470.31	470.25	1.490	2.432	2.430	2.524
SDev	5.7	3.84	1.88	.005	.026	.013	.014
%RSD	.57173	.81567	.40005	.3330	1.086	.5349	.5527
#1	1008.8	474.60	468.49	1.495	2.460	2.445	2.539
#2	997.51	469.14	470.02	1.489	2.430	2.424	2.521
#3	1001.7	467.20	472.23	1.485	2.407	2.420	2.511
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M74

High
v

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	474.07	2.476	2.553	477.48	1006.6	470.27
SDev	4.42	.016	.015	1.42	4.1	.47
%RSD	.93280	.6522	.5745	.29843	.41102	.09987
#1	477.66	2.494	2.569	479.08	1011.0	470.52
2	475.42	2.471	2.549	476.35	1002.9	469.73
3	469.13	2.462	2.540	477.02	1005.9	470.55
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	3.000	3.000	600.00	1200.0	600.00
Low	400.00	2.000	2.000	400.00	800.00	400.00

Analysis Report 10/23/03 10:09:25 AM

Method: CLP1 Sample Name: 0310665-016A Operator: MMR
Run Time: 10/23/03 10:00:18
Comment: FB
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.18657	.0351	-2.7700	.0171	.0004	.0005	.0677
SDev	.14507	.0029	.5187	.0006	.0001	.0001	.0019
%RSD	77.757	8.239	18.726	3.770	17.97	18.98	2.753
#1	.20369	.0372	-2.2228	.0177	.0005	.0006	.0691
#2	.32233	.0364	-2.8328	.0172	.0003	.0004	.0656
#3	.03370	.0318	-3.2544	.0164	.0004	.0004	.0684

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0007	.0009	.0002	.0125	.0576	.0120
SDev	.0001	.0002	.0002	.0001	.0019	.0053	.0030
%RSD	20.84	22.68	25.56	60.15	14.94	9.287	25.12
#1	.0006	.0009	.0012	.0003	.0146	.0637	.0143
#2	.0004	.0007	.0008	.0001	.0115	.0548	.0086
#3	.0005	.0006	.0008	.0002	.0113	.0542	.0131

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0006	.0061	.0444	.0010	.35826	.37457	-.01291
SDev	.0001	.0018	.0065	.0001	1.8746	.68166	1.49801
%RSD	15.14	29.57	14.60	11.80	523.25	181.99	11608.
#1	.0006	.0081	.0517	.0012	-.05494	.30950	1.4954
#2	.0005	.0056	.0424	.0010	-1.2753	1.0864	-.03375
#3	.0006	.0047	.0392	.0009	2.4050	-.27223	-1.5004

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	.43538	1.5590	3.6559	.0733	.0014	.0004	.0007
SDev	1.2290	1.9719	1.4885	.0006	.0016	.0001	.0002
%RSD	282.28	126.49	40.715	.8519	113.7	20.52	26.21
#1	.17055	3.8286	5.2528	.0727	.0000	.0005	.0009
#2	-.63959	.26612	3.4078	.0739	.0032	.0004	.0005
#3	1.7752	.58222	2.3070	.0734	.0010	.0004	.0006

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	.23375	.0003	.0034	.36918	.28610	2.9576
SDev	.81732	.0002	.0000	.22374	.62801	1.6080
%RSD	349.65	63.66	.4258	60.604	219.51	54.369
#1	.39491	.0004	.0034	.18818	.61173	4.7786
#2	.95849	.0004	.0034	.30003	-.43785	2.3616
#3	-.65214	.0001	.0034	.61933	.68441	1.7327

VHBNY004 M76

Analysis Report 10/23/03 10:18:38 AM page 1

Method: CLP1 Sample Name: MB-8428
Run Time: 10/23/03 10:09:31 Operator: MMR
Comment: PBS 10/22/03 KFYVHBNY004
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.11989	.0253	-3.6135	.0018	.0010	.0001	.0908
SDev	.01210	.0030	.4833	.0001	.0001	.0000	.0012
%RSD	10.092	11.72	13.375	4.320	6.100	18.79	1.356
#1	.12991	.0224	-3.1475	.0019	.0011	.0001	.0921
#2	.12331	.0253	-4.1125	.0018	.0010	.0001	.0907
#3	.10645	.0283	-3.5804	.0019	.0010	.0001	.0896
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.2000	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.2000	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0006	.0019	.0002	.0221	.0726	.0098
SDev	.0001	.0004	.0003	.0004	.0001	.0071	.0022
%RSD	169.9	65.93	13.57	241.6	.3225	9.797	22.88
#1	.0002	.0010	.0021	.0006	.0221	.0799	.0123
#2	.0000	.0006	.0021	.0001	.0220	.0723	.0092
#3	-.0000	.0002	.0016	-.0002	.0220	.0656	.0080
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0006	.0028	.0279	.0015	5.6155	.79481	.76008
SDev	.0001	.0003	.0009	.0005	.3577	1.7023	1.2387
%RSD	23.57	11.14	3.360	31.09	6.3692	214.18	162.96
#1	.0007	.0031	.0289	.0017	5.4099	2.1925	.53660
#2	.0007	.0026	.0275	.0018	6.0285	-1.1010	-.35162
#3	.0005	.0026	.0271	.0010	5.4081	1.2929	2.0953
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.0150		5.000	.0400			
Low	-.0150		-5.000	-.0400			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1.1170	-6.7749	2.8375	.0234	.0359	.0001	.0010
SDev	2.5822	.9622	.8770	.0008	.0006	.0001	.0001
%RSD	231.17	14.202	30.906	3.461	1.540	52.28	12.55
#1	2.0398	-6.3625	1.8250	.0229	.0364	.0002	.0011
#2	3.1111	-6.0877	3.3549	.0243	.0359	.0001	.0010
#3	-1.7998	-7.8745	3.3326	.0229	.0353	.0001	.0009
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M77

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-2.8795	.0000	H.0387	2.4001	.99820	-.36343
SDev	2.2123	.0003	.0001	1.0211	1.3166	.55687
%RSD	76.830	1187.	.1467	42.545	131.90	153.23
#1	-2.9794	-.0001	H.0387	H3.2639	1.5392	-.90146
#2	-.61891	-.0002	H.0387	1.2732	1.9581	.21054
#3	-5.0401	.0003	H.0386	2.6633	-.50271	-.39938
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	10.000	.0500	.0200	3.0000	60.000	5.0000
Low	-10.000	-.0500	-.0200	-3.0000	-60.000	-5.0000

VHBNY004 M78

Method: CLP1 Sample Name: LCS-8428 Operator: MMR
un Time: 10/23/03 10:18:50
ment: LCS 10/23/03
e: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1221.9	56.92	1197.4	.2772	1.277	.5890	31.19
SDev	.8	.13	1.5	.0002	.002	.0002	.01
%RSD	.06679	.2335	.12911	.0623	.1429	.0322	.0275
#1	1222.8	57.07	1199.2	.2773	1.279	.5889	31.19
#2	1221.5	56.86	1196.5	.2771	1.275	.5892	31.20
#3	1221.3	56.83	1196.5	.2770	1.276	.5890	31.18

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.074	.3711	.8564	.6161	107.3	17.63	17.57
SDev	.005	.0001	.0003	.0009	.1	.05	.02
%RSD	.2235	.0162	.0342	.1540	.1026	.2566	.1133
#1	2.078	.3711	.8560	.6171	107.4	17.67	17.60
#2	2.074	.3711	.8566	.6153	107.4	17.58	17.57
#3	2.069	.3710	.8564	.6158	107.2	17.63	17.56

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.240	.2898	3.082	.7062	591.44	593.02	668.31
SDev	.001	.0006	.007	.0015	2.05	1.56	2.45
%RSD	.0248	.2198	.2136	.2064	.34644	.26332	.36620
#1	2.240	.2891	3.089	.7076	593.32	594.70	667.65
#2	2.239	.2903	3.076	.7063	591.74	592.76	671.02
#3	2.239	.2900	3.081	.7047	589.26	591.62	666.26

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	662.20	681.58	689.15	2.859	.6009	.4773	2.896
SDev	3.10	1.28	2.22	.023	.0017	.0005	.003
%RSD	.46758	.18795	.32269	.8027	.2812	.1030	.0923
#1	665.13	683.05	688.98	2.841	.5993	.4776	2.899
#2	662.50	680.67	691.46	2.885	.6007	.4768	2.897
#3	658.96	681.03	687.02	2.852	.6027	.4777	2.894

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	984.36	.9396	1.211	592.50	664.23	686.63
SDev	.77	.0003	.000	1.71	2.48	1.45
%RSD	.07817	.0294	.0281	.28830	.37333	.21175
#	985.02	.9392	1.211	594.24	665.97	687.00
#	984.56	.9398	1.211	592.42	665.33	687.87
#	983.52	.9397	1.211	590.83	661.39	685.03

VHBNY004 M79

Method: CLP1 Sample Name: 0310665-012A Operator: MMR
un Time: 10/23/03 10:28:05
ment: MSS-12A
: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	4.1676	92.17	115.74	.0287	1.137	.0041	58.68
SDev	.1301	.21	1.56	.0001	.001	.0001	.03
%RSD	3.1209	.2262	1.3461	.2722	.0595	1.222	.0494
#1	4.3158	92.12	117.45	.0286	1.137	.0041	58.64
#2	4.0727	91.98	115.39	.0287	1.136	.0040	58.70
#3	4.1142	92.39	114.39	.0287	1.137	.0040	58.69

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0120	.0479	.2160	1.125	140.3	5.673	17.09
SDev	.0003	.0003	.0000	.001	.1	.015	.01
%RSD	2.073	.5699	.0067	.1232	.0853	.2704	.0345
#1	.0122	.0482	.2160	1.125	140.1	5.684	17.09
#2	.0121	.0477	.2160	1.123	140.4	5.655	17.09
#3	.0118	.0477	.2160	1.126	140.3	5.679	17.10

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.397	.0094	3.364	.2012	5077.3	5090.5	6.2896
SDev	.000	.0008	.015	.0008	8.8	11.6	1.2304
%RSD	.0162	8.162	.4357	.4176	.17242	.22868	19.563
#1	2.397	.0102	3.365	.2010	5085.4	5078.4	5.2756
#2	2.397	.0093	3.348	.2021	5068.0	5101.6	7.6585
#3	2.397	.0087	3.378	.2005	5078.5	5091.4	5.9346

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	9.9729	.24854	7.4837	1.674	.1464	.3495	2.156
SDev	.7669	1.4026	1.0691	.015	.0007	.0002	.003
%RSD	7.6899	564.33	14.285	.9160	.4792	.0613	.1283
#1	10.086	-.33680	7.6127	1.680	.1471	.3497	2.157
#2	10.677	-.76656	8.4824	1.686	.1462	.3493	2.158
#3	9.1559	1.8490	6.3559	1.657	.1457	.3496	2.153

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-4.9081	.4735	2.898	5086.1	8.7464	5.0744
SDev	2.4632	.0007	.001	4.9	.8263	.2895
%RSD	50.187	.1510	.0492	.09705	9.4471	5.7043
#1	-3.3385	.4730	2.897	5080.7	8.4839	4.9655
#2	-3.6386	.4731	2.899	5090.4	9.6720	5.4025
#3	-7.7471	.4743	2.899	5087.1	8.0832	4.8551

VHBNY004 M80

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Method: CLP1 Sample Name: 0310665-012ADUP Operator: MMR
Run Time: 10/23/03 10:37:19
Comment: NSS-12A DUP
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	4.2268	71.54	88.986	.0267	1.189	.0038	28.75
SDev	.1461	.33	1.525	.0005	.004	.0000	.08
%RSD	3.4554	.4623	1.7142	1.967	.3090	.2747	.2768
#1	4.2188	71.43	90.305	.0264	1.186	.0038	28.69
#2	4.3766	71.92	87.315	.0273	1.193	.0038	28.84
#3	4.0849	71.28	89.337	.0263	1.188	.0038	28.72

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0127	.0525	.2408	1.180	131.9	6.292	20.31
SDev	.0001	.0002	.0006	.004	.4	.023	.06
%RSD	.8165	.4368	.2535	.3436	.2812	.3704	.3130
#1	.0126	.0523	.2404	1.177	131.7	6.283	20.27
#2	.0128	.0528	.2415	1.185	132.3	6.318	20.38
#3	.0126	.0526	.2406	1.179	131.7	6.275	20.28

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.499	.0083	.8288	.2033	5456.2	5472.8	2.9702
SDev	.007	.0002	.0042	.0005	11.2	20.1	.5869
%RSD	.2715	2.758	.5121	.2313	.20477	.36796	19.760
#1	2.494	.0085	.8281	.2032	5455.1	5459.1	2.3783
#2	2.507	.0081	.8333	.2038	5467.9	5495.9	3.5521
#3	2.497	.0082	.8249	.2029	5445.6	5463.4	2.9803

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	3.2047	-.71428	8.1064	1.031	.0422	.1169	2.347
SDev	.6253	2.15909	1.8390	.000	.0009	.0003	.008
%RSD	19.513	302.28	22.686	.0426	2.254	.2604	.3279
#1	3.6434	-2.2067	10.197	1.031	.0425	.1166	2.340
#2	3.4821	-1.6976	7.3839	1.031	.0429	.1172	2.355
#3	2.4887	1.7614	6.7384	1.032	.0411	.1170	2.345

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-7.1032	.4657	2.926	5467.3	3.1267	5.1691
SDev	2.5565	.0015	.009	16.7	.4345	.8568
%RSD	35.990	.3212	.3000	.30583	13.896	16.575
#1	-4.5864	.4644	2.918	5457.8	3.2221	6.0666
#2	-9.6976	.4673	2.936	5486.6	3.5054	4.3598
#3	-7.0257	.4653	2.924	5457.4	2.6524	5.0811

VHBNY004 M81

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Method: CLP1 Sample Name: 0310665-012AMS Operator: MMR
Run Time: 10/23/03 10:46:32
Comment: NGS-12A MS
Mode CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	43.597	81.97	134.92	.0322	3.606	.0503	53.42
SDev	.297	.26	.83	.0003	.005	.0002	.31
%RSD	.68046	.3125	.61449	.8942	.1484	.4776	.5830
#1	43.350	81.68	135.85	.0319	3.600	.0501	53.06
#2	43.514	82.06	134.63	.0324	3.606	.0505	53.64
#3	43.926	82.17	134.26	.0323	3.611	.0504	53.55

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0580	.5078	.4472	1.458	151.9	7.095	34.95
SDev	.0002	.0024	.0023	.001	1.0	.013	.16
%RSD	.2671	.4696	.5070	.0529	.6277	.1854	.4521
#1	.0580	.5051	.4446	1.459	150.8	7.101	34.77
#2	.0582	.5097	.4490	1.457	152.5	7.079	35.07
#3	.0579	.5086	.4478	1.458	152.3	7.103	35.01

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	3.265	.0093	1.026	.6882	5272.5	5276.1	77.696
SDev	.013	.0003	.001	.0047	18.5	52.4	1.813
%RSD	.4055	2.873	.0538	.6815	.35182	.99330	2.3336
#1	3.250	.0090	1.026	.6829	5256.7	5222.3	76.891
#2	3.274	.0096	1.025	.6918	5293.0	5327.0	79.772
#3	3.271	.0093	1.026	.6900	5267.9	5279.1	76.424

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	78.559	8.2025	14.794	1.591	.0535	.1247	2.794
SDev	.964	1.1998	.796	.004	.0003	.0001	.016
%RSD	1.2270	14.628	5.3781	.2574	.5514	.1095	.5558
#1	78.917	9.2646	15.223	1.596	.0532	.1249	2.776
#2	79.292	8.4418	15.282	1.589	.0535	.1246	2.806
#3	77.467	6.9010	13.876	1.588	.0538	.1247	2.799

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	35.506	.9323	3.623	5274.9	78.271	12.599
SDev	.237	.0025	.013	40.9	1.166	.913
%RSD	.66878	.2648	.3586	.77629	1.4902	7.2482
#1	35.426	.9295	3.609	5233.8	78.242	13.239
#2	35.773	.9338	3.634	5315.7	79.452	13.005
#3	35.319	.9336	3.628	5275.4	77.120	11.553

VHBNY004 M82

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Method: CLP1 Sample Name: 0310665-012ASD Operator: MMR
Run Time: 10/23/03 10:55:45
Comment: N55-12A SD
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.0229	19.87	22.836	.0067	.2429	.0009	13.04
SDev	.0457	.06	.399	.0004	.0003	.0000	.01
%RSD	4.4665	.3011	1.7482	6.212	.1206	2.292	.0813
#1	1.0454	19.88	23.194	.0063	.2432	.0010	13.03
#2	1.0531	19.81	22.910	.0067	.2426	.0009	13.04
#3	.97035	19.93	22.406	.0071	.2428	.0009	13.05

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	.0108	.0470	.2326	29.77	1.093	3.767
SDev	.0001	.0002	.0001	.0005	.01	.002	.007
%RSD	5.741	2.249	.1121	.1999	.0480	.2127	.1811
#1	.0027	.0107	.0469	.2328	29.78	1.092	3.772
#2	.0028	.0111	.0470	.2321	29.75	1.092	3.759
#3	.0025	.0106	.0471	.2330	29.77	1.096	3.770

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.5222	.0028	.6545	.0447	1108.7	1112.9	1.2743
SDev	.0001	.0005	.0032	.0002	3.7	3.0	1.6620
%RSD	.0241	17.90	.4912	.4766	.33124	.27191	130.43
#1	.5222	.0033	.6553	.0445	1105.7	1112.3	2.2223
#2	.5221	.0024	.6510	.0450	1107.5	1110.3	2.2452
#3	.5224	.0025	.6573	.0447	1112.8	1116.2	-.64478

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1.8278	1.9398	1.5686	.5080	.0308	.0720	.4760
SDev	2.1644	1.2655	.5493	.0080	.0004	.0001	.0021
%RSD	118.41	65.236	35.017	1.573	1.210	.1706	.4484
#1	3.9763	.98355	2.2024	.5142	.0304	.0719	.4784
#2	-.35207	1.4611	1.2743	.4990	.0311	.0720	.4743
#3	1.8593	3.3748	1.2292	.5107	.0308	.0721	.4754

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-2.2615	.1018	.6521	1111.5	1.6435	1.6923
SDev	.7261	.0003	.0001	3.1	1.5360	.3167
%RSD	32.107	.3197	.0224	.27994	93.457	18.715
#1	-2.0576	.1019	.6522	1110.1	3.3922	1.7965
#2	-1.6592	.1020	.6519	1109.4	.51286	1.3366
#3	-3.0677	.1014	.6522	1115.1	1.0254	1.9437

VHBNY004 M83

Method: CLP1 Sample Name: 0310665-013A Operator: MMR
Run Time: 10/23/03 11:04:59
Comment: NSS-13A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.4844	58.11	28.237	.0222	.5467	.0033	37.83
SDev	.2357	.11	.832	.0002	.0007	.0000	.09
%RSD	15.878	.1929	2.9474	.7512	.1301	.2274	.2473
#1	1.4471	58.02	28.586	.0223	.5459	.0033	37.74
#2	1.7365	58.06	28.838	.0223	.5468	.0032	37.82
#3	1.2696	58.24	27.287	.0220	.5473	.0033	37.92

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0250	.0515	.2920	.8172	120.1	11.70	32.09
SDev	.0001	.0001	.0011	.0011	.3	.02	.07
%RSD	.5285	.1823	.3679	.1351	.2261	.1640	.2191
#1	.0250	.0515	.2909	.8162	119.9	11.70	32.03
#2	.0249	.0515	.2921	.8170	120.1	11.68	32.08
#3	.0251	.0514	.2930	.8183	120.4	11.72	32.17

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.320	.0070	1.167	.1671	2659.3	2669.8	3.8959
SDev	.005	.0003	.001	.0008	3.5	4.1	.7798
%RSD	.2040	4.356	.0566	.4847	.13144	.15488	20.017
#1	2.315	.0072	1.167	.1674	2661.1	2665.3	3.1489
#2	2.320	.0072	1.166	.1677	2655.3	2670.9	4.7049
#3	2.324	.0066	1.168	.1662	2661.6	2673.3	3.8340

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	6.7574	-5.8489	4.5981	1.171	.0527	.0730	2.882
SDev	1.3650	1.3310	.7774	.004	.0008	.0003	.005
%RSD	20.200	22.756	16.907	.3031	1.616	.4428	.1906
#1	6.6716	-4.9277	3.7190	1.173	.0520	.0728	2.877
#2	8.1633	-7.3749	4.8800	1.172	.0537	.0728	2.883
#3	5.4374	-5.2442	5.1951	1.167	.0525	.0733	2.888

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-8.9475	.2375	5.768	2666.3	5.8046	1.1192
SDev	.4174	.0008	.011	2.8	1.0869	.5197
%RSD	4.6654	.3533	.1926	.10646	18.725	46.433
#1	-9.2145	.2367	5.758	2663.9	5.4986	.83970
#2	-9.1616	.2374	5.768	2665.7	7.0117	.79912
#3	-8.4665	.2384	5.780	2669.4	4.9035	1.7189

Method: CLP1 Sample Name: CCV2 Operator: MMR
Run Time: 10/23/03 11:14:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	987.46	51.34	473.64	2.427	2.499	2.485	50.97
SDev	4.82	.22	.95	.011	.014	.012	.21
%RSD	.48782	.4229	.20149	.4462	.5682	.4980	.4170
#1	990.31	51.47	472.72	2.431	2.506	2.494	51.14
#2	990.16	51.46	474.63	2.435	2.508	2.491	51.04
#3	981.89	51.09	473.58	2.414	2.483	2.471	50.73
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.483	2.428	2.474	2.503	49.09	83.44	50.97
SDev	.012	.010	.012	.013	.26	.37	.21
%RSD	.4654	.4115	.4774	.5064	.5368	.4430	.4098
#1	2.492	2.435	2.482	2.509	49.29	83.62	51.13
#2	2.486	2.432	2.480	2.512	49.20	83.69	51.06
#3	2.470	2.417	2.461	2.489	48.79	83.02	50.74
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.465	2.496	81.11	2.483	478.62	481.89	1018.6
SDev	.012	.007	.21	.014	1.74	3.34	7.9
%RSD	.4936	.2952	.2636	.5538	.36365	.69362	.77616
#1	2.473	2.493	81.34	2.494	479.92	485.33	1027.5
#2	2.471	2.505	81.08	2.487	476.65	481.68	1015.7
#3	2.451	2.491	80.92	2.468	479.31	478.66	1012.6
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	2.750		88.00	2.750			
Low	2.250		72.00	2.250			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1005.7	492.05	487.52	2.137	2.399	2.444	2.532
SDev	5.8	2.14	1.47	.009	.009	.014	.015
%RSD	.57846	.43548	.30076	.4353	.3916	.5600	.5835
#1	1012.4	494.32	485.96	2.142	2.407	2.450	2.540
#2	1003.5	491.77	487.72	2.142	2.402	2.453	2.541
#3	1001.4	490.06	488.87	2.126	2.389	2.428	2.515
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M85

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	461.73	2.471	2.582	480.80	1010.0	489.03
StDev	5.68	.013	.011	2.43	6.5	.26
%RSD	1.2309	.5325	.4234	.50513	.64483	.05408
#1	455.18	2.478	2.589	483.53	1017.4	488.74
#2	465.42	2.478	2.587	480.00	1007.6	489.07
#3	464.59	2.455	2.569	478.87	1005.1	489.27
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.00	2.750	2.750	550.00	1100.0	550.00
Low	450.00	2.250	2.250	450.00	900.00	450.00

Method: CLP1 Sample Name: CCB2 Operator: MMR
[redacted]un Time: 10/23/03 11:23:28
C[redacted]ent:
M[redacted]e: CONC Corr. Factor: 1

[redacted]Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
[redacted]Avge	.59297	.0450	-2.5980	.0031	.0008	.0008	.0520
[redacted]SDev	.45672	.0095	.6140	.0009	.0004	.0003	.0084
%RSD	77.023	21.09	23.632	29.28	43.32	38.32	16.13
[redacted]#1	.94967	.0547	-3.2987	.0038	.0012	.0012	.0609
#2	.75103	.0445	-2.3409	.0034	.0008	.0008	.0511
#3	.07821	.0357	-2.1544	.0021	.0005	.0005	.0442
[redacted]Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.2000	.2000	.0050	.2000
[redacted]ow	-10.000	-.2000	-10.000	-.2000	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
[redacted]Avge	.0009	.0010	.0010	.0004	.0240	.0667	.0201
[redacted]SDev	.0002	.0002	.0004	.0004	.0098	.0122	.0077
%RSD	25.30	19.14	42.93	102.0	40.85	18.29	38.38
[redacted]#1	.0012	.0010	.0013	.0007	.0342	.0764	.0273
#2	.0008	.0011	.0012	.0004	.0230	.0707	.0209
[redacted]#3	.0007	.0008	.0005	-.0000	.0147	.0530	.0120
[redacted]Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
[redacted]ow	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
[redacted]nits	ppm	ppm	ppm	ppm	ppb	ppb	ppb
[redacted]vge	.0011	.0082	.0345	.0010	1.1208	1.3171	.91093
SDev	.0004	.0033	.0139	.0004	.9820	.7018	1.5118
[redacted]RSD	38.78	40.09	40.30	41.58	87.611	53.279	165.96
[redacted]#1	.0015	.0119	.0492	.0010	.14956	2.0455	2.1702
#2	.0011	.0073	.0329	.0014	1.0998	1.2606	1.3283
[redacted]3	.0007	.0055	.0215	.0006	2.1132	.64537	-.76573
[redacted]Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
[redacted]igh	.0150		5.000	.0400			
[redacted]ow	-.0150		-5.000	-.0400			

[redacted]Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
[redacted]nits	ppb	ppb	ppb	ppm	ppm	ppm	ppm
[redacted]Avge	.06100	1.6773	2.0575	.0401	.0015	.0009	.0013
SDev	.02037	.8622	1.0406	.0005	.0005	.0003	.0004
[redacted]RSD	33.395	51.404	50.574	1.330	31.82	36.30	35.31
[redacted]#1	.07865	2.5870	2.4910	.0403	.0020	.0012	.0017
[redacted]#2	.03871	.87213	2.8114	.0406	.0013	.0008	.0014
[redacted]#3	.06563	1.5728	.87032	.0395	.0011	.0005	.0008
[redacted]Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

[redacted]

VHBNY004 M87

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	3.2755	.0008	.0011	1.2518	.34402	1.9309
SDev	1.6507	.0005	.0005	.1453	.50475	.7379
%RSD	50.396	64.29	48.91	11.604	146.72	38.214
#1	4.9970	.0013	.0016	1.4142	.77513	2.5229
#2	3.1234	.0010	.0010	1.2071	.46815	2.1656
#3	1.7061	.0002	.0006	1.1342	-.21122	1.1042
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.0500	.0200	3.0000	60.000	5.0000
Low	-10.000	-.0500	-.0200	-3.0000	-60.000	-5.0000

VHBNY004 M88

Method: CLP1 Sample Name: 0310665-014A Operator: MMR
Run Time: 10/23/03 11:32:42
Comment: 665-14A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.5466	90.52	52.725	.0313	.5572	.0042	24.69
SDev	.2050	.26	.868	.0001	.0005	.0000	.07
%RSD	13.256	.2820	1.6458	.2000	.0896	.7473	.2922
#1	1.6185	90.32	52.703	.0313	.5570	.0042	24.62
#2	1.3154	90.43	53.603	.0313	.5568	.0042	24.70
#3	1.7061	90.80	51.868	.0312	.5578	.0042	24.76

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	.0472	.2058	.4436	116.3	6.732	16.25
SDev	.0001	.0003	.0004	.0006	.3	.011	.05
%RSD	1.332	.5528	.2093	.1305	.2839	.1592	.2921
#1	.0046	.0470	.2054	.4431	115.9	6.728	16.20
#2	.0047	.0475	.2063	.4434	116.3	6.724	16.25
#3	.0048	.0471	.2059	.4442	116.6	6.744	16.30

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.759	.0083	.8165	.1818	1114.9	1127.0	1.7884
SDev	.004	.0003	.0016	.0005	5.1	3.8	.9252
%RSD	.1996	4.237	.1975	.2666	.45852	.33578	51.736
#1	1.755	.0087	.8172	.1813	1109.1	1122.6	1.8721
#2	1.759	.0080	.8146	.1821	1118.3	1129.4	.82412
#3	1.763	.0082	.8176	.1821	1117.5	1129.0	2.6689

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	3.2180	-2.8024	6.7016	1.268	.0359	.0931	2.326
SDev	1.5588	.6587	1.1581	.005	.0004	.0001	.004
%RSD	48.439	23.505	17.280	.4270	1.268	.0969	.1699
#1	5.0140	-3.1069	7.6661	1.263	.0354	.0932	2.322
#2	2.2179	-3.2537	7.0215	1.267	.0363	.0930	2.326
#3	2.4220	-2.0465	5.4172	1.273	.0359	.0932	2.330

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-5.8310	.2246	1.439	1123.0	2.7419	3.5368
SDev	.4919	.0006	.002	4.2	1.1260	.5760
%RSD	8.4359	.2839	.1625	.37631	41.064	16.287
#1	-5.9502	.2240	1.437	1118.1	3.9677	4.0787
#2	-5.2904	.2245	1.440	1125.7	1.7538	3.5999
#3	-6.2523	.2253	1.442	1125.2	2.5042	2.9318

VHBNY004 M89

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Method: CLP1 Sample Name: 0310665-015A Operator: MMR
Run Time: 10/23/03 11:41:55
Comment: NSS-15A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	2.3845	42.73	154.60	.0329	.6532	.0021	56.16
SDev	.3820	.14	1.50	.0010	.0025	.0000	.27
%RSD	16.020	.3325	.96792	3.028	.3795	.4772	.4824
#1	2.0081	42.76	156.31	.0326	.6530	.0021	56.20
#2	2.3736	42.85	153.96	.0340	.6558	.0021	56.41
#3	2.7718	42.57	153.53	.0321	.6508	.0021	55.88

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0111	.0337	.2508	.5538	122.4	5.969	29.41
SDev	.0001	.0003	.0007	.0015	.7	.001	.15
%RSD	.6263	.8161	.2803	.2753	.5582	.0244	.5177
#1	.0112	.0338	.2512	.5540	122.5	5.970	29.44
#2	.0111	.0334	.2513	.5552	123.0	5.968	29.54
#3	.0110	.0339	.2500	.5521	121.7	5.970	29.24

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.851	.0125	1.029	.1612	2371.0	2396.4	2.7226
SDev	.009	.0003	.003	.0011	2.3	9.0	1.4225
%RSD	.4695	2.460	.2772	.6750	.09657	.37718	52.249
#1	1.852	.0124	1.030	.1619	2368.7	2388.9	3.0625
#2	1.859	.0128	1.032	.1617	2373.3	2406.5	3.9443
#3	1.842	.0122	1.026	.1599	2370.9	2393.9	1.1609

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	3.8268	-2.9608	3.7763	.9781	.0413	.0957	1.771
SDev	2.1905	1.4216	2.6613	.0182	.0013	.0009	.007
%RSD	57.240	48.014	70.473	1.857	3.220	.9074	.3703
#1	1.3350	-1.9187	6.1719	.9668	.0427	.0960	1.768
#2	4.6971	-4.5802	.91172	.9685	.0409	.0964	1.778
#3	5.4485	-2.3834	4.2454	.9991	.0401	.0947	1.766

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-7.5762	.1833	2.747	2387.9	3.4591	1.5329
SDev	.7078	.0006	.011	6.8	1.3582	2.2405
%RSD	9.3419	.3442	.4107	.28369	39.263	146.16
#1	-8.2397	.1833	2.748	2382.2	1.9103	3.4778
#2	-7.6577	.1840	2.758	2395.4	4.4465	-.91709
#3	-6.8312	.1827	2.735	2386.2	4.0207	2.0380

VHBNY004 M90

Method: CLP1 Sample Name: 0310665-001A Operator: MMR
Run Time: 10/23/03 11:51:09
Comment: NSS - 01A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	2.7126	49.09	41.694	.0304	1.023	.0027	48.58
SDev	.1354	.13	.460	.0003	.000	.0000	.05
%RSD	4.9916	.2637	1.1025	1.050	.0464	.2276	.0977
#1	2.8593	49.15	42.020	.0305	1.023	.0027	48.62
#2	2.5924	49.18	41.892	.0301	1.022	.0027	48.60
#3	2.6862	48.94	41.168	.0307	1.022	.0027	48.53

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0081	.0473	.3659	.7440	139.1	5.786	23.27
SDev	.0001	.0003	.0005	.0008	.2	.006	.03
%RSD	1.487	.6122	.1336	.1091	.1562	.1017	.1263
#1	.0080	.0471	.3661	.7431	139.3	5.780	23.29
#2	.0082	.0473	.3664	.7447	139.1	5.785	23.28
#3	.0082	.0476	.3654	.7442	138.8	5.792	23.24

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.938	.0097	1.015	.1549	6140.9	6175.7	7.9363
SDev	.001	.0005	.001	.0005	4.1	11.9	.4135
%RSD	.0560	4.793	.1330	.2951	.06730	.19245	5.2102
#1	1.939	.0095	1.015	.1552	6144.3	6189.5	7.6481
#2	1.938	.0102	1.017	.1551	6142.1	6168.9	8.4101
#3	1.937	.0094	1.014	.1543	6136.3	6168.8	7.7508

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	9.2642	-1.6284	8.1004	2.080	.1621	.1340	2.149
SDev	1.6000	1.0546	.7652	.004	.0007	.0004	.003
%RSD	17.271	64.762	9.4460	.1768	.4205	.2893	.1211
#1	8.0968	-2.4361	8.7340	2.083	.1622	.1337	2.151
#2	8.6077	-2.0138	7.2503	2.081	.1628	.1339	2.150
#3	11.088	-.43533	8.3170	2.076	.1614	.1345	2.146

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-6.2738	.2699	4.132	6164.1	8.8220	4.8607
SDev	1.2449	.0006	.002	9.0	1.0433	.6327
%RSD	19.843	.2213	.0507	.14540	11.826	13.017
#1	-5.1852	.2706	4.133	6174.4	7.9474	5.0144
#2	-7.6311	.2696	4.133	6160.0	8.5419	4.1654
#3	-6.0049	.2695	4.130	6158.0	9.9767	5.4025

Method: CLP1 Sample Name: 0310665-002A Operator: MMR
Run Time: 10/23/03 12:00:23
Comment: NSS-62A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	3.9068	78.42	63.236	.0260	1.090	.0038	28.00
SDev	.2190	.14	.513	.0005	.000	.0000	.10
%RSD	5.6066	.1778	.81104	1.758	.0399	.4780	.3435
#1	4.0405	78.48	63.346	.0255	1.090	.0038	27.91
#2	3.6540	78.26	63.685	.0262	1.090	.0039	27.99
#3	4.0258	78.52	62.677	.0264	1.090	.0038	28.10

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0116	.0550	.2143	.9534	143.1	6.358	17.60
SDev	.0001	.0002	.0007	.0010	.5	.013	.05
%RSD	.8616	.3097	.3231	.1035	.3627	.1983	.2719
#1	.0117	.0548	.2135	.9545	142.6	6.373	17.57
#2	.0116	.0550	.2145	.9525	143.1	6.351	17.58
#3	.0115	.0551	.2148	.9534	143.6	6.351	17.66

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.689	.0077	.5786	.1743	4641.5	4659.8	5.9878
SDev	.007	.0006	.0025	.0010	13.0	25.3	1.4077
%RSD	.2599	7.427	.4264	.5752	.28083	.54252	23.509
#1	2.682	.0083	.5812	.1732	4640.8	4637.5	4.8362
#2	2.689	.0071	.5762	.1744	4628.8	4654.5	5.5702
#3	2.696	.0078	.5783	.1752	4654.8	4687.3	7.5571

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	8.4628	1.9522	9.1410	2.021	.1729	.1101	2.821
SDev	1.9371	1.8122	.5687	.003	.0014	.0000	.003
%RSD	22.890	92.829	6.2215	.1717	.8373	.0090	.1082
#1	10.349	3.5447	9.5046	2.024	.1713	.1101	2.818
#2	8.5605	2.3316	9.4327	2.017	.1731	.1101	2.820
#3	6.4787	-.01967	8.4856	2.022	.1742	.1101	2.824

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-7.8761	.3920	3.383	4653.7	7.6387	6.7471
SDev	.7669	.0008	.008	20.1	.8402	.9738
%RSD	9.7372	.2027	.2273	.43120	11.000	14.433
#1	-7.0009	.3911	3.376	4638.6	8.5134	7.5199
#2	-8.4308	.3923	3.381	4645.9	7.5647	7.0681
#3	-8.1967	.3926	3.391	4676.5	6.8378	5.6533

VHBNY004 M92

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Method: CLP1 Sample Name: 0310665-003A Operator: MMR
Run Time: 10/23/03 12:09:37
Comment: NSS-03A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	2.8275	72.59	77.876	.0262	.9168	.0033	23.34
SDev	.3115	.06	1.026	.0002	.0004	.0000	.01
%RSD	11.018	.0879	1.3174	.9200	.0435	.5991	.0625
#1	3.1813	72.61	78.520	.0265	.9164	.0033	23.36
#2	2.7066	72.52	76.692	.0262	.9172	.0033	23.33
#3	2.5945	72.64	78.414	.0260	.9168	.0033	23.34

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0040	.0427	.1817	.6930	114.7	5.675	15.03
SDev	.0001	.0001	.0001	.0009	.1	.010	.02
%RSD	1.433	.3220	.0729	.1294	.1227	.1830	.1272
#1	.0040	.0426	.1819	.6925	114.9	5.672	15.04
#2	.0039	.0429	.1817	.6925	114.7	5.667	15.01
#3	.0040	.0426	.1816	.6941	114.6	5.687	15.03

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.968	.0079	.4834	.1268	4080.7	4113.8	6.4361
SDev	.001	.0002	.0018	.0007	12.3	5.0	1.8210
%RSD	.0358	2.000	.3780	.5692	.30257	.12253	28.294
#1	1.969	.0080	.4834	.1275	4094.6	4119.3	7.0459
#2	1.967	.0077	.4816	.1268	4076.0	4112.4	4.3885
#3	1.968	.0079	.4853	.1260	4071.3	4109.5	7.8741

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	8.4936	3.9867	8.3998	2.090	.1222	.0781	2.698
SDev	.7116	2.2248	1.0117	.003	.0006	.0001	.002
%RSD	8.3777	55.806	12.045	.1660	.4730	.1368	.0667
#1	8.7880	3.2348	8.8420	2.094	.1221	.0781	2.696
#2	9.0108	6.4900	7.2422	2.088	.1216	.0781	2.699
#3	7.6821	2.2352	9.1151	2.088	.1228	.0782	2.699

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-8.5884	.3390	2.147	4102.7	7.8085	6.9302
SDev	2.6180	.0002	.000	7.5	.3721	.0923
%RSD	30.483	.0475	.0210	.18197	4.7653	1.3320
#1	-7.6993	.3388	2.148	4111.1	8.2079	6.9748
#2	-6.5307	.3390	2.147	4100.3	7.4716	6.9917
#3	-11.535	.3392	2.148	4096.8	7.7461	6.8241

VHBNY004 M93

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Method: CLP1 Sample Name: 0310665-004A Operator: MMR
Run Time: 10/23/03 12:18:51
Comment: NSS-04A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	4.4326	88.72	90.999	.0481	1.259	.0040	37.41
SDev	.3523	.25	.701	.0009	.003	.0000	.17
%RSD	7.9475	.2856	.77039	1.837	.2278	.9400	.4530
#1	4.1314	88.43	90.725	.0471	1.256	.0040	37.22
#2	4.8200	88.91	90.477	.0486	1.262	.0041	37.55
#3	4.3464	88.82	91.796	.0487	1.259	.0040	37.45

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.0494	.2306	.8603	166.3	7.958	18.39
SDev	.0002	.0002	.0009	.0016	.9	.006	.06
%RSD	6.730	.3910	.4111	.1907	.5459	.0721	.3269
#1	.0033	.0496	.2298	.8611	165.2	7.960	18.33
#2	.0029	.0494	.2317	.8615	167.0	7.961	18.45
#3	.0030	.0492	.2304	.8585	166.6	7.951	18.39

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.295	.0093	.7797	.1658	4786.3	4812.7	9.6848
SDev	.008	.0003	.0011	.0011	17.3	24.0	.4936
%RSD	.3529	3.651	.1360	.6902	.36123	.49956	5.0969
#1	2.286	.0092	.7806	.1649	4796.9	4798.1	9.2335
#2	2.302	.0097	.7800	.1671	4795.6	4840.5	10.212
#3	2.296	.0090	.7785	.1653	4766.3	4799.6	9.6090

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	14.265	6.9646	14.325	2.082	.1741	.1573	2.808
SDev	1.014	3.8803	.700	.014	.0004	.0002	.011
%RSD	7.1104	55.715	4.8874	.6751	.2292	.1443	.3998
#1	15.411	10.505	13.598	2.068	.1737	.1574	2.796
#2	13.482	2.8160	14.384	2.096	.1744	.1573	2.819
#3	13.902	7.5730	14.994	2.082	.1743	.1570	2.811

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-6.9850	.4489	3.300	4803.9	12.740	11.874
SDev	.9839	.0019	.008	19.3	.533	1.163
%RSD	14.086	.4238	.2346	.40105	4.1853	9.7903
#1	-6.0961	.4469	3.294	4797.7	13.354	12.568
#2	-8.0421	.4507	3.309	4825.5	12.393	10.532
#3	-6.8167	.4492	3.299	4788.5	12.472	12.523

VHBNY004 M94

Method: CLP1 Sample Name: 0310665-005A Operator: MMR
Run Time: 10/23/03 12:28:47
Comment: N55-05A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	3.4503	77.95	70.178	.0439	1.057	.0038	34.20
SDev	.1457	.08	.329	.0001	.001	.0000	.03
%RSD	4.2223	.0978	.46883	.2598	.0635	.0560	.0981
#1	3.3532	78.03	69.842	.0440	1.057	.0038	34.16
#2	3.3798	77.92	70.191	.0439	1.056	.0038	34.22
#3	3.6178	77.89	70.500	.0438	1.058	.0038	34.21

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0075	.0510	.2611	.8532	160.2	6.549	16.87
SDev	.0001	.0000	.0002	.0001	.1	.012	.00
%RSD	1.763	.0426	.0887	.0137	.0335	.1885	.0132
#1	.0074	.0510	.2611	.8530	160.1	6.563	16.86
#2	.0075	.0510	.2609	.8532	160.2	6.539	16.87
#3	.0077	.0510	.2614	.8533	160.2	6.546	16.87

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.719	.0086	.6551	.1695	4229.3	4249.8	7.8912
SDev	.002	.0002	.0004	.0003	13.2	21.7	1.1580
%RSD	.0763	2.607	.0663	.1925	.31269	.51065	14.675
#1	2.717	.0087	.6548	.1693	4215.7	4242.9	8.5719
#2	2.720	.0087	.6550	.1694	4242.1	4274.1	8.5477
#3	2.721	.0083	.6556	.1699	4230.1	4232.4	6.5542

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	11.997	5.2736	10.898	1.798	.1880	.1541	2.338
SDev	1.487	2.5735	1.491	.006	.0004	.0001	.002
%RSD	12.393	48.799	13.685	.3141	.2293	.0880	.0732
#1	10.582	6.7370	9.5214	1.800	.1876	.1540	2.336
#2	11.862	2.3022	10.689	1.803	.1880	.1540	2.340
#3	13.546	6.7817	12.482	1.792	.1885	.1542	2.338

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-9.3270	.3831	4.618	4243.0	10.630	9.0248
SDev	1.1433	.0003	.003	17.8	.662	1.3945
%RSD	12.258	.0875	.0669	.41893	6.2296	15.452
#1	-9.2897	.3829	4.614	4233.8	9.9125	8.5942
#2	-8.2028	.3829	4.621	4263.5	10.759	7.8965
#3	-10.488	.3835	4.618	4231.7	11.218	10.584

VHBNY004 M95

Method: CLP1 Sample Name: 0310665-006A Operator: MMR
Run Time: 10/23/03 12:37:56
Comment: NSS- CGA
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.31734	6.969	.61652	.0404	.3106	.0005	42.77
SDev	.05926	.030	.37916	.0003	.0006	.0000	.01
%RSD	18.675	.4372	61.500	.8256	.2053	3.279	.0296
#1	.33318	6.996	.70526	.0407	.3110	.0005	42.77
#2	.36706	6.975	.20086	.0401	.3108	.0005	42.78
#3	.25176	6.936	.94344	.0403	.3098	.0005	42.76

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0058	.0491	.0681	12.60	3.237	5.104
SDev	.0001	.0002	.0001	.0005	.03	.010	.008
%RSD	6.223	2.965	.1043	.7070	.2601	.3122	.1636
#1	.0015	.0060	.0490	.0686	12.64	3.241	5.112
#2	.0017	.0058	.0491	.0681	12.59	3.245	5.106
#3	.0017	.0057	.0490	.0677	12.57	3.226	5.095

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.5371	.0023	.2594	.0264	252.54	251.96	2.2744
SDev	.0005	.0005	.0015	.0002	.18	1.25	1.2310
%RSD	.0935	22.22	.5698	.6596	.07311	.49653	54.124
#1	.5377	.0018	.2602	.0266	252.71	252.65	3.0711
#2	.5371	.0023	.2603	.0263	252.55	252.71	2.8954
#3	.5367	.0028	.2577	.0264	252.34	250.51	.85658

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	2.2656	-1.8620	4.8428	1.570	.0401	.1397	.3786
SDev	1.0951	.7544	1.5251	.002	.0007	.0001	.0010
%RSD	48.337	40.516	31.493	.1477	1.844	.0897	.2713
#1	1.2196	-1.9193	6.3313	1.569	.0404	.1398	.3790
#2	3.4040	-2.5862	4.9137	1.573	.0392	.1396	.3794
#3	2.1732	-1.0806	3.2835	1.569	.0405	.1396	.3774

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-3.1143	.0437	.4616	252.15	2.2685	2.6101
SDev	.7438	.0002	.0009	.89	.8382	.8927
%RSD	23.884	.4061	.2052	.35273	36.950	34.203
#1	-3.4034	.0439	.4626	252.67	1.8362	3.5838
#2	-3.6701	.0437	.4615	252.66	3.2346	2.4162
#3	-2.2693	.0435	.4607	251.12	1.7348	1.8303

VHBNY004 M96

Method: CLP1 Sample Name: 0310665-007A Operator: MMR
Run Time: 10/23/03 12:47:06
Comment: NSS - 07A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.0326	73.08	51.643	.0285	.5508	.0029	25.47
Dev	.1494	.14	.647	.0005	.0006	.0000	.04
RSD	14.471	.1903	1.2531	1.716	.1116	.1772	.1408
#1	1.1906	72.95	52.323	.0281	.5505	.0029	25.50
#2	1.0135	73.22	51.573	.0284	.5515	.0029	25.48
#3	.89361	73.09	51.034	.0290	.5503	.0029	25.43

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	.0333	.2215	.3018	102.3	5.567	12.52
Dev	.0001	.0002	.0002	.0006	.2	.020	.02
RSD	2.052	.6342	.1040	.1815	.1765	.3629	.1328
#1	.0047	.0332	.2218	.3012	102.5	5.544	12.54
#2	.0045	.0335	.2214	.3021	102.4	5.577	12.53
#3	.0047	.0331	.2214	.3021	102.1	5.580	12.51

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.318	.0050	.4232	.0941	2207.3	2226.5	5.3911
Dev	.001	.0006	.0012	.0008	6.4	3.7	1.1221
RSD	.1088	12.99	.2845	.8538	.28920	.16720	20.814
#1	1.319	.0057	.4218	.0948	2213.7	2230.7	4.1483
#2	1.319	.0047	.4237	.0944	2207.2	2225.2	5.6949
#3	1.316	.0045	.4241	.0932	2200.9	2223.7	6.3299

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	5.9506	-.62709	5.1816	2.201	.0905	.1088	2.552
Dev	1.2043	.50456	1.2347	.009	.0010	.0002	.003
RSD	20.239	80.462	23.828	.4238	1.121	.2001	.1257
#1	7.2484	-.73819	5.1744	2.205	.0915	.1086	2.554
#2	5.7343	-1.0668	3.9505	2.207	.0904	.1091	2.554
#3	4.8690	-.07623	6.4198	2.190	.0895	.1088	2.548

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-7.6642	.1744	1.298	2220.1	5.7643	3.2473
Dev	1.8422	.0003	.000	4.6	.4319	.9891
RSD	24.036	.1624	.0169	.20516	7.4928	30.459
#1	-6.5404	.1747	1.299	2225.1	6.2161	3.2056
#2	-6.6619	.1742	1.298	2219.2	5.7212	2.2797
#3	-9.7901	.1743	1.298	2216.1	5.3555	4.2566

VHBNY004 M97

Method: CLP1 Sample Name: 0310665-008A Operator: MMR
Run Time: 10/23/03 12:56:16
Comment: WSS-08A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	2.4091	64.96	57.796	.0389	1.819	.0038	41.20
SDev	.3862	.22	2.335	.0010	.002	.0001	.37
%RSD	16.031	.3363	4.0396	2.579	.1080	1.223	.8891
#1	2.2990	64.89	58.095	.0382	1.820	.0037	40.87
#2	2.0899	64.79	55.327	.0385	1.817	.0038	41.13
#3	2.8384	65.21	59.967	.0401	1.820	.0038	41.60

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0104	.0499	.4477	.6016	144.1	6.076	23.60
SDev	.0002	.0007	.0031	.0017	1.3	.021	.17
%RSD	1.536	1.448	.6937	.2763	.8966	.3397	.7218
#1	.0106	.0494	.4452	.6035	143.0	6.097	23.45
#2	.0102	.0495	.4467	.6005	143.9	6.056	23.55
#3	.0103	.0507	.4511	.6008	145.6	6.075	23.78

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.803	.0144	.7616	.1693	6571.7	6589.2	11.122
SDev	.010	.0008	.0028	.0028	43.8	9.6	.886
%RSD	.5519	5.599	.3623	1.637	.66622	.14534	7.9663
#1	1.795	.0135	.7643	.1671	6521.2	6580.0	12.010
#2	1.801	.0146	.7588	.1684	6596.7	6599.1	10.238
#3	1.815	.0151	.7616	.1724	6597.4	6588.5	11.119

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	18.369	2.5260	8.3266	1.814	.1707	.1063	2.365
SDev	2.298	1.3835	2.0408	.009	.0021	.0004	.011
%RSD	12.510	54.768	24.509	.4973	1.225	.3853	.4611
#1	20.092	1.8448	7.6560	1.814	.1691	.1068	2.358
#2	19.254	1.6152	6.7055	1.805	.1699	.1061	2.359
#3	15.760	4.1180	10.618	1.823	.1731	.1061	2.378

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-5.9433	.2172	4.396	6583.4	15.956	6.3950
SDev	1.3556	.0010	.015	20.2	1.614	1.8179
%RSD	22.809	.4520	.3420	.30680	10.113	28.427
#1	-6.3638	.2169	4.385	6560.4	17.401	5.7209
#2	-7.0388	.2164	4.390	6598.3	16.252	5.0105
#3	-4.4273	.2183	4.413	6591.5	14.214	8.4537

VHBNY004 M98

Method: CLP1 Sample Name: CCV3 Operator: MMR
an Time: 10/23/03 13:05:25
omment:
: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	980.95	51.07	472.27	2.411	2.478	2.467	50.66
SDev	3.78	.30	3.44	.008	.008	.010	.25
%RSD	.38559	.5824	.72814	.3442	.3266	.3946	.4927
#1	980.06	51.02	469.10	2.406	2.478	2.470	50.71
#2	985.10	51.39	475.92	2.420	2.487	2.475	50.88
#3	977.70	50.80	471.79	2.405	2.470	2.456	50.39
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.490	2.409	2.458	2.470	48.89	82.76	50.61
SDev	.013	.010	.011	.009	.23	.35	.25
%RSD	.5330	.4157	.4458	.3733	.4768	.4220	.4968
#1	2.498	2.410	2.460	2.467	48.97	82.59	50.64
#2	2.497	2.418	2.468	2.481	49.07	83.17	50.84
#3	2.474	2.398	2.446	2.463	48.63	82.53	50.34
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.449	2.496	80.61	2.491	474.59	483.58	1013.9
SDev	.010	.011	.65	.013	5.47	1.64	1.8
%RSD	.4086	.4465	.8091	.5056	1.1529	.33963	.17723
#1	2.451	2.492	80.39	2.499	476.15	484.83	1015.8
#2	2.458	2.508	81.34	2.499	479.11	484.20	1013.7
#3	2.438	2.487	80.09	2.477	468.51	481.72	1012.2
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	2.750		88.00	2.750			
Low	2.250		72.00	2.250			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1003.1	488.76	484.94	2.138	2.382	2.410	2.532
SDev	7.7	4.58	2.61	.011	.008	.006	.009
%RSD	.76578	.93722	.53729	.5233	.3386	.2549	.3681
	1003.1	487.53	486.03	2.136	2.384	2.408	2.535
	1010.8	493.83	486.82	2.150	2.389	2.417	2.539
	995.45	484.92	481.96	2.128	2.373	2.405	2.521
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M99

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	467.41	2.446	2.557	480.59	1006.7	486.21
SDev	6.72	.008	.010	2.84	5.4	3.11
%RSD	1.4371	.3116	.3869	.59155	.53573	.64063
#1	461.98	2.446	2.557	481.94	1007.3	486.53
#2	474.92	2.454	2.567	482.50	1011.8	489.15
#3	465.32	2.439	2.547	477.32	1001.0	482.95
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.00	2.750	2.750	550.00	1100.0	550.00
Low	450.00	2.250	2.250	450.00	900.00	450.00

Method: CLP1 Sample Name: CCB3 Operator: MMR
Run Time: 10/23/03 13:14:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.54048	.0397	-2.5992	.0023	.0009	.0008	.0541
SDev	.23669	.0089	1.5163	.0007	.0004	.0003	.0088
%RSD	43.791	22.38	58.336	31.67	42.78	40.31	16.17
#1	.76233	.0483	-.97996	.0030	.0013	.0011	.0631
#2	.29133	.0403	-2.8321	.0022	.0008	.0008	.0535
#3	.56780	.0305	-3.9856	.0016	.0005	.0005	.0456
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.2000	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.2000	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0010	.0010	.0002	.0246	.0643	.0192
SDev	.0002	.0003	.0002	.0006	.0101	.0104	.0064
%RSD	27.82	34.19	23.25	416.5	40.96	16.25	33.52
#1	.0010	.0014	.0013	.0008	.0346	.0759	.0250
#2	.0008	.0008	.0009	.0002	.0248	.0611	.0201
#3	.0006	.0009	.0008	-.0005	.0144	.0557	.0123
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0010	.0088	.0319	.0009	1.0175	1.6177	.84189
SDev	.0004	.0027	.0140	.0006	1.8064	.6471	.86015
%RSD	43.21	30.26	44.05	63.65	177.53	40.003	102.17
#1	.0015	.0118	.0466	.0012	2.6117	.96379	-.11893
#2	.0009	.0082	.0304	.0011	-.94446	2.2578	1.5402
#3	.0006	.0066	.0186	.0002	1.3854	1.6314	1.1044
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.0150		5.000	.0400			
Low	-.0150		-5.000	-.0400			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1.7652	4.2380	1.1023	.0394	.0014	.0009	.0013
SDev	1.1805	1.5557	1.0703	.0009	.0003	.0003	.0004
%RSD	66.876	36.708	97.089	2.328	19.07	37.79	33.96
#1	2.9714	5.0394	1.7274	.0403	.0013	.0012	.0017
#2	.61220	5.2296	1.7131	.0394	.0012	.0008	.0012
#3	1.7120	2.4450	-.13346	.0385	.0016	.0006	.0009
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	3.5333	.0010	.0008	1.4179	1.4577	2.1465
SDev	1.8505	.0005	.0005	.1969	.5125	1.2312
%RSD	52.375	55.24	59.70	13.889	35.159	57.359
#1	4.4247	.0016	.0013	1.5126	1.9423	2.8303
#2	4.7694	.0007	.0008	1.1915	.92123	2.8841
#3	1.4058	.0007	.0004	1.5495	1.5097	.72518
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.0500	.0200	3.0000	60.000	5.0000
Low	-10.000	-.0500	-.0200	-3.0000	-60.000	-5.0000

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Method: CLP1 Sample Name: 0310665-009A Operator: MMR
Run Time: 10/23/03 13:23:45
Comment: NSS-09A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	2.8207	78.36	94.579	.2199	2.012	.0037	30.18
Dev	.2391	.46	1.465	.0008	.004	.0001	.02
%RSD	8.4753	.5891	1.5486	.3738	.2164	1.314	.0615
#1	3.0923	77.83	93.502	.2190	2.007	.0038	30.19
#2	2.6422	78.58	93.987	.2205	2.014	.0037	30.19
#3	2.7275	78.68	96.246	.2202	2.015	.0037	30.16

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0104	.0617	.5617	.8552	171.7	9.706	17.79
Dev	.0001	.0003	.0010	.0034	.1	.069	.02
%RSD	1.097	.4250	.1783	.3934	.0844	.7069	.1004
#1	.0105	.0618	.5626	.8513	171.9	9.628	17.78
#2	.0103	.0619	.5619	.8570	171.7	9.734	17.81
#3	.0104	.0614	.5606	.8573	171.6	9.756	17.79

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.081	.0437	1.832	.1640	9663.9	9692.8	47.468
Dev	.001	.0006	.014	.0008	35.8	26.3	1.885
%RSD	.0474	1.409	.7784	.4560	.37013	.27084	3.9722
#1	2.082	.0435	1.815	.1647	9701.7	9722.9	46.109
#2	2.082	.0444	1.838	.1640	9630.6	9674.4	46.674
#3	2.080	.0432	1.842	.1632	9659.2	9681.2	49.620

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	51.654	1.1909	7.2435	1.933	.3952	.1582	2.905
Dev	.403	2.6437	1.5101	.017	.0007	.0003	.004
%RSD	.77955	221.99	20.848	.8908	.1778	.1909	.1530
#1	51.647	-1.1119	8.9872	1.914	.3944	.1578	2.901
#2	52.061	.60693	6.3757	1.938	.3957	.1584	2.910
#3	51.256	4.0777	6.3676	1.948	.3956	.1583	2.904

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-7.3593	.2709	4.954	9683.2	50.260	5.2280
Dev	1.1772	.0002	.002	29.1	.454	.6698
%RSD	15.996	.0852	.0356	.30093	.90351	12.811
#1	-6.3410	.2711	4.953	9715.8	49.803	5.6242
#2	-7.0886	.2709	4.956	9659.8	50.267	4.4547
#3	-8.6483	.2707	4.953	9673.9	50.711	5.6051

VHBNY004 M103

Method: CLP1 Sample Name: 0310665-010A Operator: MMR
n Time: 10/23/03 13:32:55
ment: NSS-01/10A HK 10/23/03
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.4661	26.38	19.364	.0346	.5219	.0018	139.6
Dev	.2947	.07	.922	.0002	.0003	.0000	.0
%RSD	20.103	.2648	4.7613	.5359	.0610	.5855	.0272
#1	1.6243	26.30	20.400	.0346	.5217	.0018	139.6
#2	1.6478	26.38	19.054	.0345	.5217	.0018	139.6
#3	1.1260	26.44	18.636	.0349	.5223	.0018	139.5

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0045	.0326	.1744	.4757	95.47	3.832	81.98
Dev	.0001	.0001	.0003	.0015	.01	.014	.04
%RSD	1.893	.3890	.1851	.3163	.0148	.3546	.0498
#1	.0044	.0327	.1748	.4741	95.46	3.818	81.94
#2	.0044	.0324	.1742	.4759	95.47	3.834	82.00
#3	.0045	.0326	.1743	.4771	95.48	3.845	82.02

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.064	.0070	.6226	.0936	2880.9	2898.6	10.360
Dev	.000	.0003	.0016	.0001	7.9	9.6	.900
%RSD	.0369	4.199	.2592	.0950	.27592	.33065	8.6914
#1	1.064	.0071	.6213	.0935	2883.1	2909.4	10.393
#2	1.064	.0067	.6222	.0937	2887.4	2890.9	9.4439
#3	1.064	.0073	.6244	.0936	2872.0	2895.6	11.244

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	14.026	3.3054	2.9971	1.434	.2456	-.0035	1.543
Dev	1.041	.9906	1.0879	.005	.0010	.0003	.001
%RSD	7.4252	29.967	36.298	.3816	.3912	7.368	.0663
#1	14.883	2.7354	1.8370	1.437	.2463	-.0033	1.542
#2	14.327	2.7317	3.1599	1.439	.2459	-.0034	1.543
#3	12.867	4.4492	3.9945	1.428	.2445	-.0038	1.544

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-4.3238	.1740	2.320	2892.7	12.805	3.0998
Dev	.9433	.0002	.000	6.9	.538	1.0074
%RSD	21.816	.1215	.0132	.23966	4.2043	32.499
#1	-3.4975	.1741	2.321	2900.6	13.388	2.1362
#2	-5.3515	.1740	2.321	2889.8	12.701	3.0173
#3	-4.1224	.1737	2.320	2887.8	12.326	4.1459

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Method: CLP1 Sample Name: 0310665-011A Operator: MMR
Run Time: 10/23/03 13:42:05
Comment: NSS-11A
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1.7164	79.33	39.021	.0391	.6957	.0035	23.31
Dev	.2022	.26	1.332	.0001	.0016	.0000	.01
%RSD	11.780	.3313	3.4140	.1503	.2285	.6729	.0602
#1	1.4836	79.52	38.858	.0391	.6966	.0035	23.30
#2	1.8485	79.44	37.778	.0392	.6967	.0035	23.31
#3	1.8171	79.03	40.427	.0392	.6939	.0035	23.32

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	.0471	.2403	.4870	118.9	11.40	16.93
Dev	.0001	.0002	.0003	.0018	.2	.06	.01
%RSD	2.580	.3426	.1203	.3716	.1433	.4983	.0589
#1	.0042	.0471	.2402	.4885	118.7	11.45	16.94
#2	.0041	.0469	.2401	.4875	119.0	11.40	16.93
#3	.0040	.0472	.2407	.4850	119.0	11.34	16.92

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	1.817	.0083	.6268	.1301	2216.9	2231.3	5.7122
Dev	.002	.0004	.0035	.0002	7.1	4.5	.6451
%RSD	.0913	5.266	.5526	.1623	.32091	.20063	11.294
#1	1.815	.0088	.6299	.1301	2208.7	2226.8	6.1292
#2	1.818	.0081	.6275	.1298	2221.9	2231.5	6.0383
#3	1.818	.0081	.6231	.1303	2220.0	2235.8	4.9691

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	7.5543	-1.0326	6.9169	1.907	.1208	.0845	2.920
Dev	.9001	1.2813	1.1685	.011	.0004	.0002	.004
%RSD	11.916	124.08	16.894	.5761	.3361	.2276	.1342
#1	6.8660	.34919	7.8378	1.905	.1208	.0845	2.918
#2	8.5729	-1.2657	5.6024	1.919	.1212	.0847	2.925
#3	7.2240	-2.1814	7.3104	1.897	.1204	.0843	2.918

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	-7.6881	.2379	1.828	2226.5	6.9409	4.2697
Dev	.6848	.0005	.002	5.1	.6864	1.0197
%RSD	8.9071	.1986	.0945	.22876	9.8894	23.882
#1	-8.2489	.2373	1.828	2220.8	6.6207	5.3441
#2	-7.8906	.2380	1.830	2228.3	7.7289	3.3153
#3	-6.9249	.2382	1.827	2230.5	6.4731	4.1497

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Method: CLP1 Sample Name: CRIF Operator: MMR
Run Time: 10/23/03 13:51:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	20.091	.0499	17.104	.1969	.0003	.0104	.0386
Dev	.502	.0140	1.316	.0011	.0001	.0000	.0067
%RSD	2.4995	28.03	7.6922	.5670	46.24	.3010	17.36
#1	20.668	.0647	16.456	.1982	.0005	.0105	.0458
#2	19.751	.0481	16.238	.1960	.0003	.0104	.0372
#3	19.854	.0369	18.617	.1967	.0002	.0104	.0327

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0104	.1012	.0207	.0496	.0460	.0430	.0107
Dev	.0001	.0004	.0002	.0002	.0187	.0050	.0050
%RSD	1.137	.4248	.8452	.3724	40.63	11.69	46.88
#1	.0106	.1017	.0208	.0497	.0660	.0486	.0162
#2	.0103	.1012	.0208	.0494	.0430	.0413	.0094
#3	.0104	.1008	.0205	.0496	.0290	.0390	.0064

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0313	.0229	.0313	.0833	6.6438	8.8406	116.58
Dev	.0004	.0010	.0011	.0005	1.5015	1.9708	2.92
%RSD	1.260	4.212	3.503	.5875	22.600	22.293	2.5008
#1	.0317	.0230	.0325	.0837	7.3355	9.6139	113.51
#2	.0313	.0219	.0306	.0833	7.6748	6.6004	116.92
#3	.0310	.0239	.0306	.0828	4.9211	10.307	119.31

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	116.88	10.246	9.0582	.1526	.0805	.0000	.2122
Dev	1.59	1.519	1.5194	.0021	.0012	.0000	.0008
%RSD	1.3632	14.821	16.774	1.376	1.530	62.17	.3834
#1	115.81	11.987	8.4858	.1550	.0816	.0001	.2130
#2	118.71	9.5585	10.781	.1509	.0792	.0000	.2121
#3	116.13	9.1929	7.9081	.1521	.0807	.0000	.2114

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	18.540	.1014	.0441	8.1091	116.78	9.4538
Dev	.574	.0004	.0006	1.0112	1.58	1.0332
%RSD	3.0971	.4137	1.380	12.470	1.3492	10.929
#1	19.055	.1018	.0448	8.8552	115.04	9.6516
#2	17.921	.1009	.0440	6.9582	118.12	10.374
#3	18.643	.1014	.0436	8.5139	117.19	8.3360

VHBNY004 M106

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Method: CLP1 Sample Name: ICSAF Operator: MMR
Run Time: 10/23/03 14:00:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.43274	505.6	-6.0620	.0060	.0015	.0004	511.4
SDev	.33698	1.0	.6629	.0014	.0000	.0000	1.4
%RSD	77.872	.2035	10.935	23.62	.3670	.2745	.2798
#1	.08722	506.2	-6.8184	.0044	.0015	.0004	511.6
#2	.45051	506.1	-5.5822	.0065	.0015	.0004	512.7
#3	.76048	504.4	-5.7855	.0071	.0015	.0004	509.9
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	10.000	600.0			.2000	.0050	600.0
Low	-10.000	400.0			-.2000	-.0050	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	-.0003	-.0002	.0048	205.3	.0557	505.0
SDev	.0003	.0004	.0002	.0004	.6	.0019	1.2
%RSD	14.88	163.1	85.39	8.170	.2811	3.345	.2404
#1	-.0020	.0001	-.0000	.0052	205.1	.0565	505.5
#2	-.0024	-.0001	-.0002	.0046	206.0	.0536	506.0
#3	-.0026	-.0007	-.0004	.0044	204.8	.0571	503.7
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High	.0050		.0100		240.0		600.0
Low	-.0050		-.0100		160.0		400.0

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	-.0038	-.0048	.0310	.0035	-12.787	7.2907	2.5566
SDev	.0009	.0013	.0005	.0008	5.182	4.3355	2.7598
%RSD	23.35	27.30	1.581	22.66	40.523	59.467	107.95
#1	-.0029	-.0060	.0305	.0044	-8.1924	4.1229	.51523
#2	-.0039	-.0034	.0313	.0029	-11.765	5.5174	1.4581
#3	-.0046	-.0050	.0313	.0033	-18.403	12.232	5.6965
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.0150			.0400			
Low	-.0150			-.0400			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1.8226	-4.4598	1.0956	.0618	.0416	-.3252	.0032
SDev	4.6615	7.4802	.3915	.0002	.0018	.0008	.0001
%RSD	255.77	167.73	35.733	.3164	4.274	.2508	3.723
#1	5.5324	-1.3715	1.3277	.0617	.0415	-.3243	.0034
#2	3.3451	.98185	1.3154	.0620	.0435	-.3253	.0032
#3	-3.4098	-12.990	.64359	.0617	.0399	-.3259	.0031
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M107

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	L-13.375	.0000	.0026	.60490	2.0670	-.75435
SDev	1.125	.0003	.0003	1.2412	2.1930	2.74848
%RSD	8.4096	676.7	10.30	205.20	106.09	364.35
#1	L-12.108	-.0002	.0029	.02194	3.8617	.42888
#2	L-14.258	.0003	.0027	-.23755	2.7167	1.2043
#3	L-13.758	.0001	.0024	2.0303	-.37740	-3.8963
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.0500	.0200	6.0000	60.000	5.0000
Low	-10.000	-.0500	-.0200	-6.0000	-60.000	-5.0000

VHBNY004 M108

Method: CLP1 Sample Name: ICSABF Operator: MMR
Run Time: 10/23/03 14:09:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	1091.3	505.9	1026.2	.9568	.5320	.5142	508.4
SDev	.9	.3	.9	.0012	.0002	.0005	.6
%RSD	.08191	.0664	.08664	.1257	.0428	.0910	.1180
#1	1090.7	506.2	1025.2	.9557	.5320	.5142	508.1
#2	1092.3	505.9	1026.5	.9568	.5322	.5147	509.1
#3	1090.9	505.6	1026.9	.9581	.5318	.5138	508.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.0	600.0	1200.0	1.200	.6000	.6000	600.0
Low	800.00	400.0	800.00	.8000	.4000	.4000	400.0

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9852	.4880	.4973	.5565	203.5	.0500	504.3
SDev	.0025	.0004	.0003	.0003	.3	.0027	.3
%RSD	.2566	.0905	.0629	.0535	.1526	5.351	.0604
#1	.9865	.4882	.4977	.5561	203.7	.0483	504.3
#2	.9869	.4884	.4973	.5565	203.8	.0486	504.6
#3	.9823	.4875	.4970	.5567	203.2	.0531	504.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	1.200	.6000	.6000	.6000	240.0		600.0
Low	.8000	.4000	.4000	.4000	160.0		400.0

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.5026	1.050	.0355	.9835	963.34	989.00	-7.2149
SDev	.0004	.004	.0003	.0018	2.48	2.70	3.5045
%RSD	.0838	.3692	.8070	.1841	.25715	.27258	48.574
#1	.5022	1.046	.0354	.9856	962.96	990.63	-6.5861
#2	.5030	1.050	.0358	.9827	961.07	990.48	-4.0673
#3	.5027	1.054	.0353	.9823	965.98	985.89	-10.991
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.6000			1.200			
Low	.4000			.8000			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	-10.335	1009.7	1001.0	.6120	1.048	-.3312	.0024
SDev	2.099	4.8	3.8	.0008	.003	.0012	.0001
%RSD	20.312	.47246	.37536	.1234	.2584	.3648	2.638
#1	-8.0087	1008.6	1003.2	.6113	1.049	-.3316	.0023
#2	-12.088	1005.6	1003.2	.6119	1.049	-.3299	.0024
#3	-10.908	1014.9	996.70	.6128	1.045	-.3322	.0024
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	975.99	.5066	1.088	980.46	-9.2960	1003.9
Dev	5.52	.0005	.001	1.10	1.7038	1.1
RSD	.56607	.0938	.0947	.11184	18.328	.11348
#1	970.27	.5067	1.087	981.42	-7.5349	1005.0
#2	976.39	.5071	1.089	980.69	-9.4172	1004.0
#3	981.30	.5061	1.089	979.26	-10.936	1002.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	1200.0	.6000	1.200	1200.0		1200.0
Low	800.00	.4000	.8000	800.00		800.00

VHBNY004 M110

Method: CLP1 Sample Name: CCV4 Operator: MMR
Run Time: 10/23/03 14:18:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	983.26	51.05	479.68	2.428	2.486	2.484	51.06
SDev	7.29	.47	2.83	.018	.021	.022	.39
%RSD	.74159	.9182	.59040	.7403	.8434	.8705	.7729
#1	988.84	51.23	482.43	2.441	2.504	2.506	51.38
#2	985.93	51.41	479.83	2.435	2.492	2.484	51.18
#3	975.01	50.52	476.77	2.407	2.463	2.462	50.62
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1100.0	55.00	550.00	2.750	2.750	2.750	55.00
Low	900.00	45.00	450.00	2.250	2.250	2.250	45.00

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.501	2.430	2.474	2.477	49.10	82.81	51.12
SDev	.020	.021	.021	.022	.40	.83	.42
%RSD	.8033	.8734	.8605	.8885	.8183	1.004	.8280
#1	2.521	2.449	2.493	2.492	49.43	83.08	51.45
#2	2.501	2.434	2.477	2.486	49.21	83.47	51.25
[redacted]	2.480	2:407	2.451	2.451	48.65	81.87	50.64
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.750	2.750	2.750	2.750	55.00	88.00	55.00
Low	2.250	2.250	2.250	2.250	45.00	72.00	45.00

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	2.463	2.512	80.56	2.499	477.41	483.73	1019.6
SDev	.020	.013	.67	.023	2.69	4.47	9.3
%RSD	.8224	.5346	.8336	.9141	.56349	.92321	.91102
#1	2.482	2.521	80.57	2.522	480.50	486.86	1025.5
#2	2.466	2.518	81.23	2.499	475.58	485.72	1024.4
[redacted]	2.442	2.496	79.88	2.476	476.14	478.62	1008.9
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	2.750		88.00	2.750			
Low	2.250		72.00	2.250			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	1008.8	497.31	490.86	2.147	2.408	2.424	2.542
SDev	5.8	3.82	5.63	.019	.018	.021	.022
%RSD	.57648	.76755	1.1479	.8879	.7415	.8704	.8471
[redacted]	1014.5	498.78	490.32	2.160	2.424	2.442	2.562
[redacted]	1009.0	492.98	496.74	2.157	2.409	2.428	2.545
[redacted]	1002.9	500.18	485.51	2.125	2.389	2.401	2.519
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M111

High

Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	478.89	2.463	2.572	481.63	1012.4	493.01
Dev	3.46	.021	.021	3.53	6.8	2.55
RSD	.72328	.8607	.8068	.73266	.67272	.51700
#1	482.43	2.482	2.591	484.74	1018.2	493.13
#2	478.73	2.468	2.575	482.35	1014.1	495.49
#3	475.51	2.440	2.550	477.79	1004.9	490.40
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.00	2.750	2.750	550.00	1100.0	550.00
Low	450.00	2.250	2.250	450.00	900.00	450.00

Analysis Report 10/23/03 02:37:04 PM page 1

Method: CLP1 Sample Name: CCB4 Operator: MMR
Run Time: 10/23/03 14:28:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As1890	B	Ba	Be	Ca
Units	ppb	ppm	ppb	ppm	ppm	ppm	ppm
Avge	.44915	.0735	-1.0515	.0035	.0008	.0008	.0915
SDev	.23267	.0174	.4958	.0009	.0003	.0003	.0206
%RSD	51.802	23.72	47.148	26.79	36.70	31.63	22.52
#1	.70427	.0906	-.72110	.0045	.0010	.0011	.1120
#2	.39455	.0741	-.81188	.0034	.0008	.0008	.0918
#3	.24864	.0557	-1.6216	.0027	.0005	.0006	.0708
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.2000	10.000	.2000	.2000	.0050	.2000
Low	-10.000	-.2000	-10.000	-.2000	-.2000	-.0050	-.2000

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.0011	.0011	.0006	.0312	.0663	.0569
SDev	.0003	.0005	.0003	.0003	.0102	.0126	.0197
%RSD	39.61	47.67	32.60	53.23	32.75	19.00	34.56
#1	.0012	.0015	.0014	.0009	.0411	.0771	.0747
#2	.0009	.0012	.0012	.0004	.0317	.0694	.0602
#3	.0005	.0005	.0007	.0004	.0207	.0525	.0358
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0100	.0250	.1000	5.000	.2000
Low	-.0050	-.0500	-.0100	-.0250	-.1000	-5.000	-.2000

Elem	Mn	Mo	Na	Ni	2203/1	2203/2	2068/1
Units	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Avge	.0009	.0092	.0378	.0007	.37976	-.08029	.39207
SDev	.0004	.0026	.0125	.0004	1.4566	1.10622	1.6338
%RSD	41.52	28.21	33.21	48.70	383.56	1377.8	416.71
#1	.0012	.0121	.0509	.0012	1.6265	.25000	.04538
#2	.0009	.0085	.0365	.0006	-1.2213	.82317	2.1714
#3	.0005	.0071	.0259	.0005	.73411	-1.3140	-1.0405
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	.0150		5.000	.0400			
Low	-.0150		-5.000	-.0400			

Elem	2068/2	1960/1	1960/2	Si	Sn	Sr	Ti
Units	ppb	ppb	ppb	ppm	ppm	ppm	ppm
Avge	.64632	4.0262	1.7713	.0408	.0002	.0008	.0011
SDev	1.4090	2.0643	1.4623	.0008	.0009	.0003	.0004
%RSD	218.01	51.273	82.551	1.867	574.6	31.68	37.33
#1	1.4473	5.1143	3.2502	.0417	.0012	.0010	.0015
#2	-.98062	1.6454	1.7374	.0404	-.0003	.0008	.0013
#3	1.4722	5.3188	.32634	.0404	-.0004	.0005	.0007
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

VHBNY004 M113

High
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Elem	Tl1908	V	Zn	Pb2203	Sb2068	Se1960
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avge	2.9412	.0010	.0006	.07295	.56166	2.5222
Dev	.8210	.0001	.0003	.67288	.46021	1.1766
RSD	27.913	5.564	53.90	922.37	81.939	46.649
#1	2.0105	.0010	.0010	.70841	.98049	3.8710
#2	3.5626	.0009	.0006	.14240	.06899	1.7068
#3	3.2505	.0010	.0003	-.63196	.63549	1.9888
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.0500	.0200	3.0000	60.000	5.0000
Low	-10.000	-.0500	-.0200	-3.0000	-60.000	-5.0000

IV. DOCUMENTATION FOR METALS

A. DIGESTION LOG SHEETS
B. REPORTING ANALYST SIGNATURE PAGE

H2M Labs, Inc.

CLP Digestion Log

Client: EC, VHB-NY

Analyst Signature:

DG #: V 004

Date: 10/22/14

Matrix: Soil

Time Started/Ended: 1700-2200

Method: 3050

Sample ID #	Lab #	Dig Type	Initial Vol/Wt	Final Vol	Spike Sol #	Lot #	Volume	Description Before	Description After
NFS-01A	081685001	FL	0.5gr	50mL				Brown Fine [illegible]	Yellow clear
02A	002A								
03A	003A								
04A	004A								
05A	005A								
06A	006A								
07A	007A								
08A	008A								
09A	009A								
10A	010A								
11A	011A								
12A (DUP)	012A								
13A	013A								
14A	014A								
15A	015A								
	LCS-84788				High Conc Multi	314201	1.0ml		
	MB-84788							colorless, clear	colorless clear

Comments:

PH:

*Description of colors: red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black.
*Description of texture: fine, medium, coarse.
*Description of clarity: clear, cloudy, opaque.
*Description of artifacts: yes or no and describe

VHBNY004 M116

H2M Labs, Inc.

CLP Digestion Log

Client: KeyHIB-NY

SDG #: CX4

Matrix: BLANK

Method: 3010

Analyst Signature: [illegible signature]

Date:

Time Started/Ended:

Sample ID #	Lab #	Dig Type	Initial Vol/Wt	Final Vol	Spike Sol #	Lot #	Volume	Description Before	Description After
NSS FB	C3106S-01	FL	10mL	10mL				colorless clear	colorless clear
	LCS-8429	↓	↓	↓				yellow clear	yellow clear
	MB 8429	↓	↓	↓				colorless clear	colorless clear

Comments:

PH:

*Description of colors:	red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black.
*Description of texture:	fine, medium, coarse.
*Description of clarity:	clear, cloudy, opaque.
*Description of artifacts:	yes or no and describe

VHBNY004 M117

H2M LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 10:55am

END TIME: 6:30am

PCUBM & KEYVHANY

DATE: 10/22/03

ANALYST: Jaanke Deliga

LAB# 0310600-007A		PAN/CRUCIBLE 7
%TS 87.5/12.5		%TVS
INITIAL WEIGHT 9.62	DRY WEIGHT 8.74	DRY WEIGHT
-TARE WEIGHT - 2.59	-TARE WEIGHT - 2.59	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.03	=SOLID WEIGHT = 6.15	=VOLATILE WEIGHT =

LAB# 0310600-008A		PAN/CRUCIBLE 8
%TS 89.9/10.1		%TVS
INITIAL WEIGHT 11.16	DRY WEIGHT 10.29	DRY WEIGHT
-TARE WEIGHT - 2.57	-TARE WEIGHT - 2.57	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.59	=SOLID WEIGHT = 7.72	=VOLATILE WEIGHT =

LAB# 0310600-009A		PAN/CRUCIBLE 9
%TS 87.6/12.4		%TVS
INITIAL WEIGHT 10.66	DRY WEIGHT 9.66	DRY WEIGHT
-TARE WEIGHT - 2.59	-TARE WEIGHT - 2.59	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.07	=SOLID WEIGHT = 7.07	=VOLATILE WEIGHT =

LAB# 0310600-010A		PAN/CRUCIBLE 10
%TS 87.3/12.7		%TVS
INITIAL WEIGHT 10.09	DRY WEIGHT 9.13	DRY WEIGHT
-TARE WEIGHT - 2.54	-TARE WEIGHT - 2.54	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.55	=SOLID WEIGHT = 6.59	=VOLATILE WEIGHT =

LAB# 0310600-010A Dup		PAN/CRUCIBLE 11
%TS 86.4/13.6 [illegible]		%TVS RPD=6.8%
INITIAL WEIGHT 10.09	DRY WEIGHT 9.06	DRY WEIGHT
-TARE WEIGHT - 2.49	-TARE WEIGHT - 2.49	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.6	=SOLID WEIGHT = 6.57	=VOLATILE WEIGHT =

LAB# 0310665-001A @ NSS-01A		PAN/CRUCIBLE 12
%TS 79.2/20.8		%TVS
INITIAL WEIGHT 11.24	DRY WEIGHT 9.44	DRY WEIGHT
-TARE WEIGHT - 2.59	-TARE WEIGHT - 2.59	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.65	=SOLID WEIGHT = 6.85	=VOLATILE WEIGHT =

TAS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 2:30 pm

END TIME: 6:30 am

Lot # VHBNY004

DATE: 10/22/03

ANALYST: Joanne Dell

10/22/03

LAB# 0310665-002A	PAN/CRUCIBLE 13 NSS-02A	
%TS 80.6/19.4	%TVS	
INITIAL WEIGHT 8.73	DRY WEIGHT 7.54	DRY WEIGHT
-TARE WEIGHT - 2.60	-TARE WEIGHT - 2.60	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 6.13	=SOLID WEIGHT = 4.94	=VOLATILE WEIGHT =

LAB# 0310665-003A	PAN/CRUCIBLE 14 NSS-03A	
%TS 77.4/22.6	%TVS	
INITIAL WEIGHT 10.10	DRY WEIGHT 8.40	DRY WEIGHT
-TARE WEIGHT - 2.56	-TARE WEIGHT - 2.56	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.54	=SOLID WEIGHT = 5.84	=VOLATILE WEIGHT =

LAB# 0310665-004A	PAN/CRUCIBLE 15 NSS-04A	
%TS 76.8/23.2	%TVS	
INITIAL WEIGHT 11.48 10.40	DRY WEIGHT 9.42	DRY WEIGHT
-TARE WEIGHT - 2.60	-TARE WEIGHT - 2.60	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.88	=SOLID WEIGHT = 6.82	=VOLATILE WEIGHT =

LAB# 030665-005A	PAN/CRUCIBLE 16 NSS-05A	
%TS 81.0/19.0	%TVS	
INITIAL WEIGHT 10.08 11.52	DRY WEIGHT 8.65	DRY WEIGHT
-TARE WEIGHT - 2.31	-TARE WEIGHT - 2.54	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.54	=SOLID WEIGHT = 6.11	=VOLATILE WEIGHT =

LAB# 0310665-006A	PAN/CRUCIBLE 17 NSS-06A	
%TS 30.4/69.6	%TVS	
INITIAL WEIGHT 10.16 10.09	DRY WEIGHT 9.88	DRY WEIGHT
-TARE WEIGHT - 2.57	-TARE WEIGHT - 2.57	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.59	=SOLID WEIGHT = 2.31	=VOLATILE WEIGHT =

LAB# 0310665-007A	PAN/CRUCIBLE 18 NSS-07A	
%TS 72.4/27.6	%TVS	
INITIAL WEIGHT 19.29	DRY WEIGHT 13.97	DRY WEIGHT
-TARE WEIGHT - 2.62	-TARE WEIGHT - 2.62	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 15.67	=SOLID WEIGHT = 11.35	=VOLATILE WEIGHT =

H2M LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 2:30

END TIME: 6:30 a

DATE: 10/22/03

ANALYST: [illegible]

10/28/03

LAB# 0310665-008A		PAN/CRUCIBLE 19 NSS-08A
%TS 89.2/10.8		%TVS
INITIAL WEIGHT 9.80	DRY WEIGHT 9.02	DRY WEIGHT
-TARE WEIGHT - 2.57	-TARE WEIGHT - 2.57	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.23	=SOLID WEIGHT = 6.45	=VOLATILE WEIGHT =

LAB# 0310665-009A		PAN/CRUCIBLE 20 NSS-09A
%TS 95.0/5.0		%TVS
INITIAL WEIGHT 14.12	DRY WEIGHT 13.55	DRY WEIGHT
-TARE WEIGHT - 2.64	-TARE WEIGHT - 2.64	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 11.48	=SOLID WEIGHT = 10.91	=VOLATILE WEIGHT =

LAB# 0310665-010A		PAN/CRUCIBLE 21 NSS-10A
%TS 90.7/9.3		%TVS
INITIAL WEIGHT 14.11	DRY WEIGHT 13.04	DRY WEIGHT
-TARE WEIGHT - 2.59	-TARE WEIGHT - 2.59	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 11.52	=SOLID WEIGHT = 10.45	=VOLATILE WEIGHT =

LAB# 0310665-011A		PAN/CRUCIBLE 22 NSS-11A
%TS 81.2/18.8		%TVS
INITIAL WEIGHT 13.77	DRY WEIGHT 11.65	DRY WEIGHT
-TARE WEIGHT - 2.48	-TARE WEIGHT - 2.48	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 11.29	=SOLID WEIGHT = 9.17	=VOLATILE WEIGHT =

LAB# 0310665-012A		PAN/CRUCIBLE 23 NSS-12A
%TS 85.2/14.8		%TVS
INITIAL WEIGHT 11.40	DRY WEIGHT 10.10	DRY WEIGHT
-TARE WEIGHT - 2.60	-TARE WEIGHT - 2.60	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 8.8	=SOLID WEIGHT = 7.5	=VOLATILE WEIGHT =

LAB# 0310665-012A Dup		PAN/CRUCIBLE 24 NSS-12A
%TS 85.8/14.2		%TVS RPD=41%
INITIAL WEIGHT 10.10	DRY WEIGHT 9.03	DRY WEIGHT
-TARE WEIGHT - 2.59	-TARE WEIGHT - 2.59	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.51	=SOLID WEIGHT = 6.44	=VOLATILE WEIGHT =

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: 2130

END TIME: 6:30 am

DATE: 10/22/03

ANALYST: [signature]

10/18/03

LAB# 0310665-013A	PAN/CRUCIBLE 25 NSS-13A		LAB#	PAN/CRUCIBLE	
%TS 86.7/13.3	%TVS		%TS	%TVS	
INITIAL WEIGHT 9.87	DRY WEIGHT 8.89	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT
-TARE WEIGHT - 2.48	-TARE WEIGHT - 2.48	-IGNITED WEIGHT -	-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.39	=SOLID WEIGHT = 6.41	=VOLATILE WEIGHT =	=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =

LAB# 0310665-014A	PAN/CRUCIBLE 26 NSS-14A		LAB#	PAN/CRUCIBLE	
%TS 79.9/20.1	%TVS		%TS	%TVS	
INITIAL WEIGHT 9.37	DRY WEIGHT 8.10	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT
-TARE WEIGHT - 2.60	-TARE WEIGHT - 2.60	-IGNITED WEIGHT -	-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 6.77	=SOLID WEIGHT = 5.47	=VOLATILE WEIGHT =	=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =

LAB# 0310665-015A	PAN/CRUCIBLE 27 NSS-15A		LAB#	PAN/CRUCIBLE	
%TS 86.6/13.4	%TVS		%TS	%TVS	
INITIAL WEIGHT 9.77	DRY WEIGHT 8.81	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT	DRY WEIGHT
-TARE WEIGHT - 2.61	-TARE WEIGHT - 2.61	-IGNITED WEIGHT -	-TARE WEIGHT -	-TARE WEIGHT -	-IGNITED WEIGHT -
=SAMPLE WEIGHT = 7.16	=SOLID WEIGHT = 6.2	=VOLATILE WEIGHT =	=SAMPLE WEIGHT =	=SOLID WEIGHT =	=VOLATILE WEIGHT =

H2M LABS, INC.

SDG # VHBNY004

SCAN Metals

This data package was reported by the undersigned. This reporting includes data calculations, manual edits, if necessary, and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature: _____

Date: 10/25/03

Reviewed: _____

Date: 10/28/03

VHBNY004 M122