

SAF-RC-001
Industrial Hygiene Sampling
FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 06I-0561-01 SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 303M Bldg

RECEIVED
APR 28 2006
EDMC



Report Identification Number: 06I-0561-01
 Subcontract Number: 0000X-BO-G0058-B-Mod#4
 Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
 Laboratory Identification Number: DCHM
 SAF#: RC-001 / R303MO J451
 Payroll#: 73974

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
08 Feb 2006	J115Y8	06I04562	NMAM 7300M	G061901H	MCE
08 Feb 2006	J115Y9	06I04563	NMAM 7300M	G061901H	MCE
08 Feb 2006	J11600X JM	06I04564	NMAM 7300M	G061901H	MCE

2/21/06

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Name: Joanna C. Sanchez
 Title: Chemist
 Date: February 15, 2006

Report Identification Number: 06I-0561-01
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General Set Information: There are 3 samples in set 06I-0561-01, 6 samples in set 05I-0563-01 and 5 samples in set 06I-0617-01 which were analyzed for beryllium, lead and cadmium on MCE filter. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 10 mL of 1:1 (v/v) nitric acid. Samples were digested in a hot block set at 110°C for 40 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.02 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.08 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 1. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in the media blank sample above the Contract Required Detection Limit (CRDL).

Dilution(s): NA.

Laboratory Control Sample and Duplicate Analysis: Two Laboratory Control Samples (LCSs) and two Laboratory Control Sample Duplicates (LCSDs) were prepared and analyzed with the sample batch. The LCS result was within the control limit of +/- 20%. The Relative Percent Differences (RPD) between the LCS and the LCSD was within the control limit of 20%.

Replicate Analysis: Two samples were replicated with this analysis run. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples ($\mu\text{g}/\text{sample}$) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu\text{g}/\text{L}$)

B = Concentration factor from sample preparation

= $\frac{\text{Final Volume of Digestate (L)}}{\text{Sample}}$

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

Miscellaneous Comments: None.



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Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium $\mu\text{g}/\text{sample}$		Beryllium $\mu\text{g}/\text{m}^3$		Air Volume L	
J115Y8	06I04562	14 Feb 2006	<0.02	U	<0.073	U	273.	
J115Y9	06I04563	14 Feb 2006	<0.02	U	**		**	
J11600X JM 2/21/06	06I04564	14 Feb 2006	<0.02	U	**		**	
Limit of Detection (LOD)			0.02					
Required Detection Limit (RDL)								

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Lead $\mu\text{g}/\text{sample}$		Lead $\mu\text{g}/\text{m}^3$		Cadmium $\mu\text{g}/\text{sample}$	
J115Y8	06I04562	14 Feb 2006	<1.	U	<3.7	U	<0.08	U
J115Y9	06I04563	14 Feb 2006	<1.	U	**		<0.08	U
J11600X JM 2/21/06	06I04564	14 Feb 2006	<1.	U	**		<0.08	U
Limit of Detection (LOD)			1.		0.08			
Required Detection Limit (RDL)								

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Cadmium $\mu\text{g}/\text{m}^3$	
J115Y8	06I04562	14 Feb 2006	<0.29	U
J115Y9	06I04563	14 Feb 2006	**	
J11600X JM 2/21/06	06I04564	14 Feb 2006	**	
Limit of Detection (LOD)				
Required Detection Limit (RDL)				

U - Parameter not detected above LOD.
 J - Parameter between LOD and RDL.

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Batch ID: G061901H

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-241206-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-241206-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
BL-241206-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
QC-241206-1	LCS	Beryllium	µg/sample	10.7	NA	10.0	107.	NA
QC-241206-1	LCS	Lead	µg/sample	109.	NA	100.	109.	NA
QC-241206-1	LCS	Cadmium	µg/sample	34.1	NA	30.0	114.	NA
QD-241206-1	LCSD	Beryllium	µg/sample	10.8	10.7	10.0	108.	1.05
QD-241206-1	LCSD	Lead	µg/sample	109.	109.	100.	109.	0.612
QD-241206-1	LCSD	Cadmium	µg/sample	34.4	34.1	30.0	115.	1.06

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

CHAIN OF CUSTODY SAMPLE ANALYSIS REQUEST

Collector: Dm Driggers Telephone No: 531-1259 Date Turnaround: STD

Project Coordinator: Ann H. Keenan

Project No: RC-001

Method of Shipping: Fed Ex

Bill of Lading/Air Bill No: 8544 9435 4760

Company Contact: Douglas A. Pitts and Henry W. Ruby

Sampling Location: 303M

SPECIAL INSTRUCTIONS: All relevant COAs must be provided: R303M0J451

Wipe Sample Media: Be, Cd, Pb Wipe Sample Media: Yes No

Other: Debra Ckern

Other: Utah

PRESERVATION: AIR WIFE OTHER

Other: Be, Cd, Pb

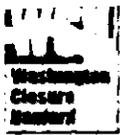
Special Handling and/or Storage: NA

Analysis Method (SPECIFIC): Niosh 7300

Preservation (i.e., cooling, equipment, etc.):

SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area (SQ. CM)	Comments	ANALYSIS											
					Arsenic Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne				
J11518	A	2-8-06	273	NA			X	X								
J11519	A		NA	Blank		X	X									
J11600	A		NA	Blank		X	X									
J11601	WI		X	NA				X								
J11602	WI		X	NA				X								
J11603	WI		NA	Blank				X								
J11604	WI	2-8-06	NA	Blank				X								

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: DM Driggers	Company Contact Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1229	Project Coordinator Joan H. Kessner
Payroll #: 73974	Sampling Location 303M	SPECIAL INSTRUCTIONS All relevant COAs must be provided: R303M0J4S1 ANALYSIS METHOD (SPECIFIC): Niosh 7300	SAF No. RC-001
Type of Sample: Be, Cd, Pb	Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other _____		Method of Shipment Fed Ex
Shipped To: Data Chem Utah			Bill of Lading/Air Bill No. 8544 9435 4760

STD

POSSIBLE SAMPLE HAZARD/RI MARKS Be, Cd, Pb	MATRIX A - AIR W1 - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No							
Special Handling and/or Storage NA										

SAMPLE ANALYSIS

SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area (sq. cm)	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne
J115Y8	A	2-8-06	273	NA		X	X					X
J115Y9	A		NA	Blank		X	X					X
J11600	A		NA	Blank		X	X					X
J11601	W1		X	NA				X		X	X	
J11602	W1		X	NA				X		X	X	
J11603	W1		NA	Blank				X				
J11604	W1	2-8-06	NA	Blank								

COPY

FIELD SAMPLE COPY

Enter on line below the first Sample Number from Page One:

J11548

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
SIGN / PRINT NAMES / USE MILITARY TIME			
Relinquished By/Status	DATE / TIME	Received By/Status	DATE / TIME
DM Driggers / DM Driggers	2-8-06 / 1642	Locked Cabinet room 4 3746	2-8-06 / 1642
Cynthia Williams			
3746 Biol Bio Rm 112 locked cabinets	2-9-06 / 1440	R2 Steffler R. J. Steffler	2-9-06 / 1440
R2 Steffler R. J. Steffler	2-9-06 / 1600	Fed Ex	
LABORATORY SECTION	Received By	Title	DATE / TIME

REVIEWED BY: _____ DATE: _____
 PRINT/SIGN NAME