

0068421

SAF-RC-001
Industrial Hygiene Sampling
FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 051-4517-01 SAF-RC-001

Rad only Chem only Rad & Chem

Complete Partial

300 Area 334A Bldg

RECEIVED
FEB 07 2006
EDMC

Report Identification Number: 05I-4517-01
 Subcontract Number: 0000X-B)-G0058-B-M0d#4
 Name of Industrial Hygienist: Henry W. Ruby / Denise A. Pitts
 Laboratory Identification Number: DCHM
 SAF#: RC-001 / R300XX J451
 Payroll#: 72520



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
31 Oct 2005	J10BY5	05I42618	NMAM 7300M	G05B100M	G WIPE
31 Oct 2005	J10BY6	05I42619	NMAM 7300M	G05B100M	G WIPE
31 Oct 2005	J10BY7	05I42620	NMAM 7300M	G05B100M	G WIPE
31 Oct 2005	J10CP1	05I42621	NMAM 7300M	G05B100M	G WIPE

I certify that this electronic image and all hardcopies produced from this image accurately represent the data and are in compliance with the contract specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Name: Joanna C. Sanchez
 Title: Chemist
 Date: November 03, 2005

Report Identification Number: 05I-4517-01
Subcontract Number: 0000X-B)-G0058-B-M0d#4
Name of Industrial Hygienist: Henry W. Ruby / Denise A. Pitts
Laboratory Identification Number: DCHM
SAF#: RC-001 / R300XX J451
Payroll#: 72520

General Set Information: There are 4 samples in set 05I-4517-01, 8 samples in set 05I-4518-01 and 4 samples in set 05I-4519-01. The samples were analyzed for beryllium on Ghost Wipe. 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 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C (with a temperature reading of 95°C) for 60 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 recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of $\pm 10\%$.

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 Contract Required Detection Limits (CRDL) of 0.02 ug/sample.

Method Blank Analysis: No beryllium was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): NA

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS result was within the control limits of $\pm 20\%$. The Relative Percent Difference (RPD) between the LCS and the LCSD was within the control limit of 20%.

Replicate Analysis: Two samples in this batch were replicated. 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:

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

Where:

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

B = Concentration factor from sample preparation

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

C = Dilution performed at time of analysis

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

Miscellaneous Comments: None.



Report Page

Report Identification Number: 05I-4517-01
 Subcontract Number: 0000X-B)-G0058-B-M0d#4
 Name of Industrial Hygienist: Henry W. Ruby / Denise A. Pitts
 Laboratory Identification Number: DCHM
 SAF#: RC-001 / R300XX J451
 Payroll#: 72520

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium $\mu\text{g}/\text{sample}$
J10BY5	05I42618	02 Nov 2005	<0.02 U
J10BY6	05I42619	02 Nov 2005	<0.02 U
J10BY7	05I42620	02 Nov 2005	<0.02 U
J10CPI	05I42621	02 Nov 2005	<0.02 U
Limit of Detection (LOD)			0.02
Required Detection Limit (RDL)			

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.



QC Summary Page

Report Identification Number: 05I-4517-01
 Subcontract Number: 0000X-B)-G0058-B-M0d#4
 Name of Industrial Hygienist: Henry W. Ruby / Denise A. Pitts
 Laboratory Identification Number: DCHM
 SAF: RC-001 / R300XX J451
 Payroll#: 72520

Batch ID: G05B100M

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-237870-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
QC-237870-1	LCS	Beryllium	µg/sample	11.7	NA	10.0	117.	NA
QD-237870-1	LCSD	Beryllium	µg/sample	11.3	11.7	10.0	113.	3.44

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

From: 509 37239883 Page: 9/9 Date: 11/1/2005 4:20:09 PM

BT-457-d

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST									
Collector: Williams		Company Contact: Dennis A. Pitts and Henry W. Ruby		Telephone No.: 531-1229		Project Coordinator: Jonas H. Krenzer		Date Turnaround: 24 hours	
Payroll #: 72520		Sampling Location: 300 area/334A		SPECIAL INSTRUCTIONS: All relevant COAs must be provided: 6300X X J451		SAF No.: RC-001		Method of Shipment: Fed Ex	
Type of Sample: Be wipe		Wipe Sample Media: Chest <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		ANALYSIS METHOD (SPECIFIC): NIOSH 7300		BIB of Labeling/Air Bill No.			
Shipped To: Datachem		Other: <input type="checkbox"/>		Preservation (i.e., cooling required, etc.):					
POSSIBLE SAMPLE HAZARD/REMARKS: Be		MATRIX: A - AIR, W1 - WIPE, X - OTHER		Comments					
Special Handling and/or Storage: N/A		VOLUME (L) or Area (cm ²)							
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area (cm ²)	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold
J10815	W1	10-31-05	100cm ²	Blank	No	No	No	X	No
J10816	W1	10-31-05	100cm ²	Blank	No	No	No	X	No
J10817	W1	10-31-05	N/A	Blank	No	No	No	X	No
J10818	W1	10-31-05	N/A	Blank	No	No	No	X	No

WCH-SH-202 (08/29/2005)

