

0069531

SAF-RC-001
Industrial Hygiene Sampling
FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 06I-0475-01 SAF-RC-001

Rad only Chem only Rad & Chem

X Complete Partial

300 Area 333 Bldg

RECEIVED
MAY 04 2006

EDMC



Report Identification Number: 06I-0475-01
 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 / ~~R3330J451~~
 Payroll#: 72570

R33300J451

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
01 Feb 2006	J113D7	06I03791	NMAM 7300M	G061600M	G WIPE
01 Feb 2006	J113D8	06I03792	NMAM 7300M	G061600M	G WIPE
01 Feb 2006	J113D9	06I03793	NMAM 7300M	G061600M	G WIPE
01 Feb 2006	J113F0	06I03794	NMAM 7300M	G061600M	G WIPE

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Name: Lisa M. Reid
 Title: Chemist
 Date: February 08, 2006



Case Narrative Page

Report Identification Number: 06I-0475-01
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 / R3330J451
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General Set Information: There are 4 samples in set 06I-0475-01 and 8 samples in set 06I-0476-01. The samples were analyzed for cadmium, lead and 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 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, cadmium and lead 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. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.06 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 3. ug/sample.

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

Dilution(s): None

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 results were within the control limits of $\pm 20\%$. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: One sample in this batch was 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:
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



Report Page

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 Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
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 SAF#: RC-001 / R3330J451
 Payroll#: 72570

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium µg/sample		Cadmium µg/sample		Lead µg/sample	
J113D7	06I03791	07 Feb 2006	<0.02	U	<0.1	U	<3.	U
J113D8	06I03792	07 Feb 2006	<0.02	U	<0.1	U	<3.	U
J113D9	06I03793	07 Feb 2006	<0.02	U	0.13		5.4	
J113F0	06I03794	07 Feb 2006	<0.02	U	0.84		6.0	
Limit of Detection (LOD)			0.02		0.1		3.	
Required Detection Limit (RDL)								

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



QC Summary Page

Report Identification Number: 06I-0475-01
 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 / R3330J451
 Payroll#: 72570

Batch ID: G061600M

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-241017-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-241017-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
BL-241017-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
QC-241017-1	LCS	Beryllium	µg/sample	11.6	NA	10.0	116.	NA
QC-241017-1	LCS	Cadmium	µg/sample	32.2	NA	30.0	107.	NA
QC-241017-1	LCS	Lead	µg/sample	101.	NA	100.	101.	NA
QD-241017-1	LCSD	Beryllium	µg/sample	11.7	11.6	10.0	117.	0.973
QD-241017-1	LCSD	Cadmium	µg/sample	31.6	32.2	30.0	105.	1.66
QD-241017-1	LCSD	Lead	µg/sample	101.	101.	100.	101.	0.933

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

001.0175.01

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: John Peoples Company Contact: Denise A. Pitts and Henry W. Ruby Telephone No.: 531-1229		Project Coordinator: Joan H. Kessler Date Returned: 24 hrs									
Payroll #: 0686267 Sampling Location: 300 Area/333 B10C		SAF No.: RC-001 Method of Shipment: Fed Ex									
Type of Sample: WIPES Shipped To: DataChem SALT LAKE CITY UT POSSIBLE SAMPLE HAZARD/REMARKS: Be lead/Pb Special Handling and/or Storage: N/A		Bill of Lading/Air Bill No.: 8544 9435 4737									
SPECIAL INSTRUCTIONS: All relevant COAs must be provided: 3772092000		ANALYSIS METHOD (SPECIFIC): NIOSH 7300									
Wipe Sample Media: Ghost <input type="checkbox"/> Yes <input type="checkbox"/> No Other:		Preservation (i.e., cooling required, etc.):									
MATRIX: A - AIR W1 - WIPE X - OTHER		Matrix:									
SAMPLE ANALYSIS		Comments									
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area (cm ²)	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Mold	Lead Wipe	Chl Wipe	Chl Airborne
J11307	W1	2-1-06	Blanks				X		X		
J11308		↑	Blanks				X	CDW	X		
J11309		↓	100 cm ²				X	2-1-06	X		
J11310		↓	100 cm ²				X		X		
J11302	W1	2-1-06	100 cm ²				X		X		

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WCH-SH-302 (06/29/2005)

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

211307

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	
RECEIVED BY	DATE/TIME
SIGN / PRINT NAMES / USE MILITARY TIME	DATE/TIME
Received By: <i>WYNTHIA WILLIAMS</i> <i>70166 cabinet bag 3746 RM #16</i>	<i>2-1-06 / 1630</i> <i>3746 B106 pm 16 locked cabinet</i> <i>2-1-06 / 1630</i>
Received By: <i>Golden Malton</i> <i>R2 Steffler R.J. Steffler</i>	<i>02-05-06 / 1500</i> <i>2-6-06 / 1500</i>
Received By: <i>Fed Ex</i>	<i>Fed Ex</i>
Received By: <i>Fed Ex</i>	<i>Fed Ex</i>
Received By: <i>Alfred Edwards</i>	<i>Alfred Edwards</i>
Received By: <i>Alfred Edwards</i>	<i>Alfred Edwards</i>
Received By: <i>Alfred Edwards</i>	<i>Alfred Edwards</i>
Received By: <i>Alfred Edwards</i>	<i>Alfred Edwards</i>
Received By: <i>Alfred Edwards</i>	<i>Alfred Edwards</i>
Received By: <i>Alfred Edwards</i>	<i>Alfred Edwards</i>
LABORATORY SECTION	DATE/TIME
Received By: <i>Alfred Edwards</i>	<i>Alfred Edwards</i>

REVIEWED BY:

DATE:

PRINT SIGN NAME

Page 2 of 2

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



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: John Peoples	Company Contact Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1229	Project Coordinator Joan H. Kessner	Data Turnaround 24 hrs
Payroll #: 0636267	Sampling Location 300 Area/333 BIDL	SPECIAL INSTRUCTIONS All relevant COAs must be provided: 371208 2000		SAF No. RC-001
Type of Sample: WIPES		ANALYSIS METHOD (SPECIFIC): NIDSH 7300		Method of Shipment Fed Ex
Shipped To: Datachem Salt Lake City UT	Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other _____	Bill of Lading/Air Bill No. 8544 9435 4737		

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

SAMPLE ANALYSIS					Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne	
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area <u> </u> cm ²	Comments									
J11307	WI	2-1-06	Blanks	<div style="position: absolute; top: 0; right: 0; text-align: right;">CJW</div> <div style="position: absolute; bottom: 0; left: 0; text-align: left;">2-1-06</div>				X		X	X		
J11308	↑	↑	Blanks		CJW				X	CJW	X	X	2-1-06
J11309	↓	↓	100 cm ²		2-1-06				X	2-1-06	X	X	
J11300 J11300	WI	2-1-06	100 cm ²						X		X	X	
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 48px; font-weight: bold; opacity: 0.5;">COPY</div> <div style="position: absolute; bottom: 10%; left: 60%; font-weight: bold; font-size: 24px;">FIELD SAMPLE COPY</div>													

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

J11307

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Stored	DATE / TIME	Received By/Stored:	DATE / TIME
Cynthia Williams / Cynthia Williams locked cabinet bldg 3746 Rm #16	2-1-06 / 11630	3746 B106 pm116 locked cabinet	2-1-06 / 11630
Goldie Mallon - Goldie Mallon	02-06-06 / 1500	RZ Steffler R.Z. Steffler	2-6-06 / 1500
RZ Steffler R.Z. Steffler	WCH 2-6-06 / 1600	Fed Ex	
Relinquished By/Stored	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored	DATE / TIME	Received By/Stored:	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME

REVIEWED BY: _____

DATE: _____

PRINT/SIGN NAME