0066989

SAF-B00-004
Industrial Hygiene Sampling – Airborne
FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 05I-2927-01 SAF-B00-004

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 3746 Bldg

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Report Identification Number: 05I-2927-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: HENRY W. RUBY / DENISE A. PITTS
Laboratory Identification Number: DCHM
SAF#: B00-004;B00-005 / R300XX J452
Payroll#: 73513

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
16 Jul 2005	J03K06	05I27714	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K07	05I27715	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K08	05I27716	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K09	05I27717	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K10	05I27718	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K11	05I27719	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K12	05I27720	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K13	05I27721	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K14	05I27722	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K15	05I27723	NMAM 0500	G056N00W	MCE
	CMPOSITE PG1	05I27744	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03JY6	05I27724	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03JY7	05I27725	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03JY8	05I27726	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03JY9	05I27727	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K00	05I27728	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K01	05I27729	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K02	05I27730	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K03	05I27731	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K04	05I27732	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K05	05I27733	NMAM 0500	G056N00W	MCE
	CMPOSITE PG3	05I27745	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K16	05I27734	NMAM 0500	G056N00W	MCE
16 Jul 2005	J03K17	05I27735	NMAM 0500	G056N00W	MCE

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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: Robert K. Aullman
Title: Chemist
Date: July 26, 2005

DataChem Laboratories, Inc.
960 West Levoy Drive
Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700
FAX: (801) 268-9992

Web Page: www.datachem.com
E-mail: lab@datachem.com

Case Narrative Page

Report Identification Number: 05I-2927-01
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Name of Industrial Hygienist: HENRY W. RUBY / DENISE A. PITTS
Laboratory Identification Number: DCHM
SAF#: B00-004;B00-005 / R300XX J452
Payroll#: 73513

RE: 05I-2927-01
Gravimetric

CASE NARRATIVE

SUBMITTED TO:	Joan Kessner Bechtel Hanford
SUBMITTED BY:	Robert Kyan Aullman
REFERENCE DATA:	
Analyte:	Total Dust
Project I.D. No.:	300 Area / 3746 Bldg. 0000X-BO-G0058-B-Mod#3
Sample Type:	Matched Weight MCE Filter
Samples: 22	Analyses: 22
DataChem Laboratory Nos.:	05I27714 through 05I27735

The above numbered samples were analyzed for total dust by gravimetric analysis following NMAM Method 0500 (4th ED.) with the following modifications: 1) The filters and backup pads are stored in an environmentally controlled room (21± 3°C and 50 ± 5% R.H.) and are subjected to the room conditions for at least two hours for stabilization prior to gross weighing and 2) Two weighings of each filter are performed. The averages of the weighings are used for the total weight analysis.

The total weight of each sample was determined by weighing the sample plus the top filter on an electrobalance and subtracting the weight of the bottom filter. Sample values less than the reporting limit are reported as not detected (ND).

The instrumental precision of the microbalance is 0.001 mg. The method allowable difference between two weighings of an MCE filter is 0.1 mg. Due to variable factors such as overloading, hygroscopicity of sample, and the physical integrity of the filter itself, the actual precision can be considerably poorer and occasional slight net negative weights may be expected. Studies on the physical integrity of various MCE filters have shown that the weight of the filter may vary by 0.1 mg. Because of this factor, the reporting limit for this report is 0.1 mg.

Case Narrative Page

Samples 05I27714 through 05I27733 had loose particulate on their filters.

Sample 05I27744 is a composite of samples 05I27714 through 05I27723; sample 05I27745 is a composite of samples 05I27724 through 05I27731 and 05I27733.

The sample results have not been blank corrected.
Sample 05I27732 did not contain a bottom filter, so results for it could not be calculated.

The total dust value for sample 05I27727 exceeded the method recommended maximum sample loading of 2 mg.

Results are tabulated on the following pages.

_____Robert
Kyan Aullman
Analyst

DataChem Laboratories, Inc.
960 West Levoy Drive
Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700
FAX: (801) 268-9992

Web Page: www.datachem.com
E-mail: lab@datachem.com

Report Page

Report Identification Number: 05I-2927-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: HENRY W. RUBY / DENISE A. PITTS
Laboratory Identification Number: DCHM
SAF#: B00-004;B00-005 / R300XX J452
Payroll#: 73513

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Total Dust mg/sample		Total Dust mg/25 cm²		Volume cm²	
J03K06	05I27714	20 Jul 2005	0.32		Not Req		Not Req	
J03K07	05I27715	20 Jul 2005	0.33		Not Req		Not Req	
J03K08	05I27716	20 Jul 2005	1.27		Not Req		Not Req	
J03K09	05I27717	20 Jul 2005	0.46		Not Req		Not Req	
J03K10	05I27718	20 Jul 2005	0.63		Not Req		Not Req	
J03K11	05I27719	20 Jul 2005	0.42		Not Req		Not Req	
J03K12	05I27720	20 Jul 2005	0.81		Not Req		Not Req	
J03K13	05I27721	20 Jul 2005	0.68		Not Req		Not Req	
J03K14	05I27722	20 Jul 2005	0.91		Not Req		Not Req	
J03K15	05I27723	20 Jul 2005	0.38		Not Req		Not Req	
CMPOSITE PG1	05I27744	20 Jul 2005			6.21		25	
J03JY6	05I27724	20 Jul 2005	1.40		Not Req		Not Req	
J03JY7	05I27725	20 Jul 2005	0.88		Not Req		Not Req	
J03JY8	05I27726	20 Jul 2005	1.36		Not Req		Not Req	
J03JY9	05I27727	20 Jul 2005	2.49		Not Req		Not Req	
J03K00	05I27728	20 Jul 2005	0.66		Not Req		Not Req	
J03K01	05I27729	20 Jul 2005	0.72		Not Req		Not Req	
J03K02	05I27730	20 Jul 2005	1.33		Not Req		Not Req	
J03K03	05I27731	20 Jul 2005	0.56		Not Req		Not Req	
J03K04	05I27732	20 Jul 2005	**		Not Req		Not Req	
J03K05	05I27733	20 Jul 2005	0.75		Not Req		Not Req	
CMPOSITE PG3	05I27745	20 Jul 2005			10.17		25	
J03K16	05I27734	20 Jul 2005	<0.1	U	Not Req		Not Req	
J03K17	05I27735	20 Jul 2005	<0.1	U	Not Req		Not Req	
Limit of Detection (LOD)			0.1					
Required Detection Limit (RDL)								

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

QC Summary Page

Report Identification Number: 05I-2927-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: HENRY W. RUBY / DENISE A. PITTS
Laboratory Identification Number: DCHM
SAF: B00-004;B00-005 / R300XX J452
Payroll#: 73513

Batch ID: G056N00W

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
G056N00W	LCS	Total Dust	mg/sample	16.571	NA	16.58	99.9	
G056N00W	LCSD	Total Dust	mg/sample	16.564	NA	16.58	99.9	0.042
G056N00WB	LCS	Total Dust	mg/sample	18.696	NA	18.711	99.9	
G056N00WB	LCSD	Total Dust	mg/sample	18.694	NA	18.711	99.9	0.011

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

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05I-2927-01

Bechtel Hanford, Inc.	ERC/INDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
Collector: TJ wester	Company Contact: Henry W. Ruby and Denise A. Pitts	Telephone No.: 373-5600	Project Coordinator: Joan H. Kessner	Data Turnaround: 24 hours
Payroll #: 72947	Sampling Location: 300 area/ 3746 B1D6 Room 1	SPECIAL INSTRUCTIONS All relevant COAs must be provided: R300XXJ452	SAF No.: B00-004; B00-005	
Type of Sample: Be vacuum dust		ANALYSIS METHOD (SPECIFIC): N10SN 7300 N10SN 0500	Method of Shipment: Fed Ex	
Shipped To: Datachem Salt lake city UT			Bill of Lading/Air Bill No.: 8525 3371 9697	
POSSIBLE SAMPLE HAZARD/REMARKS: Be	MATRIX: A - AIR; WI - WIPE; X - OTHER	Preservation (ie., cooling required, etc.):	No	No	NO	NO
Special Handling and/or Storage: N/a			Asbestos Airborne	Lead Airborne	Beryllium Airborne	Total Dust

SAMPLE ANALYSIS

SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L)	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Total Dust
① J03K06	A	7-16-05	Samples 1-10 total 25 cm²	05I 27714			X	X
② J03K07	A	7-16-05		15			X	X
③ J03K08	A	7-16-05		16			X	X
④ J03K09	A	7-16-05		17			X	X
⑤ J03K10	A	7-16-05		18			X	X
⑥ J03K11	A	7-16-05		19			X	X
⑦ J03K12	A	7-16-05		20			X	X
⑧ J03K13	A	7-16-05		21			X	X
⑨ J03K14	A	7-16-05		22 ~~23~~			X	X
⑩ J03K15	A	7-16-05		23 ~~24~~			X	X

CJW 7-18-05

Continue pg 1 05I 27714

BHI-SH-202 (07/28/2004)

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DataChem Laboratories, Inc.
960 West Levoy Drive
Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700
FAX: (801) 268-9992

Web Page: www.datachem.com
E-mail: lab@datachem.com

DataChem Laboratories, Inc.
960 West Levoy Drive
Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700
FAX: (801) 268-9992

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SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Source	DATE/TIME	Received By/Source	DATE/TIME
[illegible]	7/16/05 1300	3746 B1D6 Rm 16 locked cabinet	7-16-05/1300
[illegible]	7/19/05 1245	R Fehlberg R Fehlberg	7-19-05 1245
R Fehlberg R Fehlberg FRC	7-19-05 1500	Fed Ex	
Fed Ex		Meredith Edwards	7/20/05/1000
[illegible]	7/20/05/1000		

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05I-2927-

Bechtel Hanford, Inc.	ERC/INDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
Collector: TJ Wester	Company Contact: Henry W. Roby and Denise A. Pitts	Telephone No.: 373-5600	Project Coordinator: Joan H. Kessner	Data Turnaround: 24 hours
Payroll #: 72947	Sampling Location: 300 area/ 3746 B106 Room 6	SPECIAL INSTRUCTIONS All relevant COAs must be provided: R300XXJ452	SAF No.: B00-004; B00-005	
Type of Sample: Be-vacuum dust		ANALYSIS METHOD (SPECIFIC): NIOSH 7300 NIOSH 0500	Method of Shipment: Fed Ex	
Shipped To: Datachem Salt lake city UT			Bill of Lading/Air Bill No.: 8525 3371 9697	
POSSIBLE SAMPLE HAZARD/REMARKS: Be	MATRIX: A - AIR, WI - WIPE, X - OTHER	Preservation (ie., cooling required, etc.):		
Special Handling and/or Storage: N/A				

SAMPLE ANALYSIS

SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L)	Comments	Asbestos Airborne	Lead Airborne	Beryllium Micrograms	Total Dust					
① J03JY6	A	7-16-05	Samples 1-10 Total 25cm²	05I27724			X	X			Composite pg3 05I27745		
② J03JY7	A	7-16-05		25			X	X					
③ J03JY8	A	7-16-05		26			X	X					
④ J03JY9	A	7-16-05		27			X	X					
⑤ J03K00	A	7-16-05		28			X	X					
⑥ J03K01	A	7-16-05		29			X	X					
⑦ J03K02	A	7-16-05		30			X	X					
⑧ J03K03	A	7-16-05		31			X	X					
⑨ J03K04	A	7-16-05		32			X	X					
⑩ J03K05	A	7-16-05		33			X	X					

CJW 7-18-05

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DataChem Laboratories, Inc.
960 West Levoy Drive
Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700
FAX: (801) 268-9992

Web Page: www.datachem.com
E-mail: lab@datachem.com

DataChem Laboratories, Inc.
960 West Levoy Drive
Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700
FAX: (801) 268-9992

Web Page: www.datachem.com
E-mail: lab@datachem.com

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Relinquished By/Source:	DATE/TIME	Received By/Source:	DATE/TIME
[illegible]	7/16/05 1300	3746 B1D16 em16 lockedcabinet	7-16-05/1300
[illegible], from locked drawer ERC	7/19/05 1245	R. Fahlberg	7-19-05 1245
R. Fahlberg	7-19-05 1500	FedEx	
[illegible]		Meredith Edwards	20 Jul 05/1000
[illegible]	20 Jul 05/1000		

DataChem Laboratories, Inc.
960 West Levoy Drive
Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700
FAX: (801) 268-9992

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Bechtel Hanford, Inc.

Collector: TJ Wester	Company Contact: Henry W. Ruby and Denise A. Pitts	Telephone No.: 373-5600	Project Coordinator: Joan H. Kessner
Data Turnaround: 24 hour			
Payroll #: 72947	Sampling Location: 300 area / 3746 B106	SPECIAL INSTRUCTIONS: All relevant COAs must be provided: CJW 7-18-05 C300XXJ452	SAF No.: B00-004; B00-005
Type of Sample: Be - Vacuum dust		ANALYSIS METHOD (SPECIFIC): NIOSH 7300 NIOSH 0500	Method of Shipment: Fed Ex
Shipped To: Datachem Salt lake city UT			Bill of Lading/Air Bill No.: 8525 3371 9697
*POSSIBLE SAMPLE HAZARD/REMARKS: Be	MATRIX: A - AIR, WI - WIPE, X - OTHER	Preservation (ie., cooling required, etc.):	
Special Handling and/or Storage: N/A			

SAMPLE ANALYSIS

SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L)	Comments	Asbestos Airborne: No	Lead Airborne: No	Be Air-borne: No	Be Wipes: No	total dust: NO				
J03K16	A	7-16-05	n/a	Blanks	CJW 7-18-05		X	CJW 7-18-05	X	05L22734			
J03K17	A	7-16-05	n/a	Blanks			X		X	↓	35		
											CJW 7-18-05		
				CJW 7-18-05									

BHI-SH-202 (07/28/2004)

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DataChem Laboratories, Inc.
960 West Levoy Drive
Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700
FAX: (801) 268-9992

Web Page: www.datachem.com
E-mail: lab@datachem.com

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SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Signature	DATE/TIME	Received By/Signature	DATE/TIME
[illegible]	7/16/05 1300	3741b B106 rm116 locked cabinet	7-16-05/1300
[illegible], from locked drawer	7/19/05 1245	R. Fahlberg R. Fahlberg	7-19-05 1245
R. Fahlberg R. Fahlberg ERC	7-19-05 1500	Fed Ex	
Ted [illegible]		Meredith Edwards	20jul05 1100
Meredith Edwards TH/SIG ME	20jul05/1130		

LABORATORY SECTION	Received By	Title	DATE/TIME
	Meredith Edwards		20jul05/1100

REVIEWED BY: _____ DATE: _____

PRINT/SIGN NAME

BHI-SH-202 (07/28/2004)

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