

**SAF-RC-006**  
**100-N Ancillary Facilities & 190-DR**  
**Other Solid Sampling for ERDF Waste**  
**Designation**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Tom Edmundson

X5-50

KW 3/4/09  
INITIAL/DATE

**COMMENTS:**

**SDG 09-T-0902**

**SAF-RC-006**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Waste Site(s): 105-N Roof Sampling**

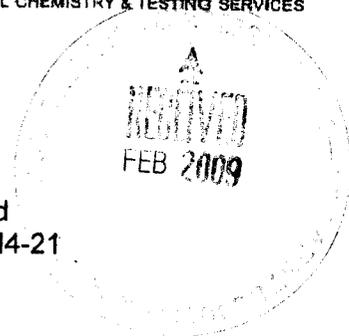
**RECEIVED**  
MAR 19 2009  
**EDMC**



**ALS Laboratory Group**  
ANALYTICAL CHEMISTRY & TESTING SERVICES



Submitted To: Joan Kessner  
Washington Closure Hanford  
2620 Fermi Avenue, MSIN H4-21  
Richland, WA 99354



Test Report  
Page 1 of 2  
2/26/09

**REFERENCE DATA**

Sample Type:	Asbestos by TEM with Gravimetric Reduction
Method Reference:	Nonfriable Bulk Material with Organic Binder
Client Sample Nos.:	EPA/600/R-93/116, Chatfield Method
Sample Location:	J18HV0
PO No.:	105-N Roof Sampling
ALS DCL Sample Set No.:	Not Available
ALS DCL Sample Nos.:	09-T-0902
Sample Receipt Date:	09-04748
Preparation Date:	2/25/2009
Analysis Date:	2/25/2009-2/26/2009
	2/26/2009

We certify that the samples indicated on the following data sheet(s) were analyzed by Transmission Electron Microscopy (TEM) for asbestos using the method, EPA/600/R-93/116, Chatfield Method, for determining the amount and type of asbestos present in bulk building materials.

After an initial examination by stereomicroscope to determine homogeneity, friability, matrix material and other characteristics, we prepared the samples using gravimetric reduction. Coarse, non-asbestos materials that cannot be pulverized, such as pebbles or metal foils, were separated from the portion analyzed. Other non-asbestos material was removed by ashing in a muffle furnace and/or dissolution in decalcifying solution. Sample weights were tracked through each step in the reduction.

Analysis was performed on a Philips CM-12 TEM and EDAX Genesis System using energy dispersive X-ray analysis (EDXA) spectra and selected area electron diffraction (SAED) patterns to determine fiber species. Asbestos percentages are based on a visual estimate of the asbestos percent by area in the final residue and are listed on the following data sheet(s). Results apply only to portions of samples analyzed. ALS DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.

Angela Sohn  
Analyst

Anna Marie Ristich  
Section Manager

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**DataChem Laboratories, Inc.**  
Part of the **ALS Laboratory Group**  
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A Campbell Brothers Limited Company

RC-006



**CLIENT:** Washington Closure Hanford  
**SAMPLE LOCATION:** 105-N Roof Sampling

**ANALYSIS DATA**

Calibration Date: 2/6/2009 Magnification: 10,400 X  
 EDXA Resolution: 150.8 eV Calibration Constant: 1 cm = 0.97 μm  
 Accelerating Voltage: 100 keV Camera Constant: 31.97 mm-A

<b>SAMPLE IDENTIFICATION</b>					
Client Sample No.:	J18HV0				
ALS DCL Sample No.:	09-04748				
<b>SAMPLE DESCRIPTION</b>					
Homogeneity:	Homogeneous				
Color:	Black				
Texture:	Resinous				
Description:	Material				
<b>SAMPLE PREP</b>					
Starting Weight (g):	0.5173				
Residue Weight (g):	0.0091				
Weight Percent Residue:	1.76				
<b>PERCENT ASBESTOS DETECTED IN RESIDUE</b>					
Chrysotile:	0.03				
Amosite:	0				
Crocidolite:	0				
Actinolite-Tremolite:	0				
Anthophyllite:	0				
<b>TOTAL IN RESIDUE</b>	<b>0.03</b>				
<b>ASBESTOS PERCENT IN SAMPLE</b>					
	<b>0.0005</b>				

ND = None Detected TRACE = <1%

  
 Angela Sohn  
 Analyst

  
 Anna Marie Ristich  
 Section Manager

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Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-200		Page 2 of 5	
Collector		Company Contact Mike Stankovich		Telephone No. 430-7142		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days 1 Day	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location 105-N Roof Sampling		SAF No. RC-006					
Ice Chest No. Box		Field Logbook No. EL-1516-14		COA RD4MXX2F00		Method of Shipment FED EX			
Shipped To DataChem Laboratories - Salt Lake City		Offsite Property No. A090123		Bill of Lading/Air Bill No. SEE OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS PACM			Preservation	None					
Special Handling and/or Storage N/A			Type of Container	G/P					
OJA-0902			No. of Container(s)	1					
			Volume	5g					
SAMPLE ANALYSIS				Asbestos BULK-EPA					
Sample No.	Matrix *	Sample Date	Sample Time						
<del>J18HT7</del>	OTHER SOLID								
<del>J18HT8</del>	OTHER SOLID								
J18HT9	OTHER SOLID	2/18/09	08:20	X					
J18HV0	OTHER SOLID	2/18/09	08:25	X	09-04748				
J18HV1	OTHER SOLID	2/18/09	08:30	X					
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Matrix *	
<del>...</del>		09:15		0915		FEB 18 2009		RUSH	
C. Buckenberger		2/18/09		M. Stankovich		FEB 18 2009		S=Soil SE=Sediment SO=Solid SI=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
<del>...</del>		1245		RC		2-18-09/12:05			
M. Stankovich		FEB 18 2009		M. Stankovich		FEB 18 2009			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
<del>...</del>		2-18-09 1350		M. Stankovich		1350			
M. Stankovich		FEB 18 2009		FED EX		FEB 18 2009			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
FED EX				Julia W...		2/19/09 1000			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
D. L. M.				<del>...</del>		2/24/09 1350			
LABORATORY SECTION		Received By		Title		Date/Time			
LABORATORY SECTION		Julia W...		2/19/09 1000					
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			
FINAL SAMPLE DISPOSITION									

CB  
2/18/09



C:\Documents and Settings\TEM EDAX\My Documents\2009 Sample  
Data\Bulk\09-T-0902 WCH\09 04748 A2 Chrysotile.spc

Label:09 04748 A2 Chrysotile

kV:100.0 X Tilt:25.0 Y Tilt:0.0 Det Type:STD+ Res:151 Amp.T:35.0

FS : 180 Lsec : 17

26-Feb-2009 10:57:44

