

0082773

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:

Kevin Finucane	X5-50	<u>KW 8/4/09</u> INITIAL/DATE
Mike Stankovich	X5-50	<u>KW 8/4/09</u> INITIAL/DATE

COMMENTS:

SDG DC0907400

SAF-RC-006

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site(s): 105-N Roof

RECEIVED
AUG 13 2009

EDMC



Test Report
Page 1 of 2
7/23/09

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



REFERENCE DATA:

Client Sample No.: J18YF3 through J18YF2
P.O. No.: N/A
Sample Location: 105-N-Roof
Sample Type: Bulk
Method Reference: EPA-600/R-93/116
ALS Work Order No.: DC 0907400
ALS Sample ID No.: 0907400-01 through 0907400-03
Sample Receipt Date: 7/23/09
Analysis Date: 7/23/09

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. ALS Laboratory Group will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

ALS Laboratory Group Environmental Division (Cincinnati) NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government.



**ALS Laboratory Group
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: 105-N-Roof

Client Sample ID:	J18YF3	J18YF4	J18YF2
ALS Sample ID:	0907400-01	0907400-02	0907400-03
Macroscopic Examination			
Accepted/Rejected:	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Layered	
Color:	Black	Inseparable	
Texture:	Fbrs/Resns	Yellow/Grey	
Description:	Material	Spongy/Crmbly	
Analysis:	PLM	Material	PLM
Asbestiform Minerals			
% Chrysotile:			
% Amosite:			
% Crocidolite:			
% Tremolite - Actinolite:			
% Anthophyllite:			
% Total Asbestos:	ND	ND	
Other Materials			
% Cellulose:	>40 ≤ 50		
% Fiberglass:			
% Other Fibers:			
% Resin/Binder:	>20 ≤ 30		
% Non Fibrous:	>10 ≤ 20	>90 ≤ 100	

ND = None Detected Trace = <1%

Special Prep Procedures: Sample number J18YF2 was prepared by gravimetric reduction.

*Notes: P. O. #: N/A.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request.

Wherever possible, separate phases are analyzed and reported individually.



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

Test Report
Page 1 of 2
7/24/09

REFERENCE DATA:

Client Sample No.: J18YF2
P.O. No.: N/A
Sample Location: 105-N-Roof
Sample Type: Bulk
Method Reference: EPA/600/R-93/116, ELAP 198.1 (modified),
PLM Analysis with Gravimetric Reduction
ALS Workorder No.: 0907400
ALS Sample ID No.: 0907400-03
Sample Receipt Date: 7/23/09
Preparation Date: 7/23/09 through 7/24/09
Analysis Date: 7/24/09

We certify that the samples indicated on the following data sheet(s) were prepared by gravimetric reduction and analyzed by Polarized Light Microscopy (PLM) for asbestos using a modification of the method, EPA/600/R-93/116, ELAP 198.1, Chatfield Method, for determining the amount and type of asbestos present in bulk building materials. The samples were acceptable upon receipt except where noted.

The samples were examined under a stereomicroscope for general composition and phase separation. 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 hydrochloric acid. Sample weights were tracked through each step in the reduction. Mountings of representative portions of the final residue were prepared in one or more refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached PLM Asbestos Analysis Data Sheets.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

* Some samples may contain fibers that are not visible by PLM and can only be discovered by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated. ALS Laboratory Group (Cincinnati) NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government. Samples will be disposed of after 60 days unless instructed otherwise.



ALS Laboratory Group Analytical Report
PLM Bulk Asbestos Analysis using Gravimetric Reduction

Client: Washington Closure Hanford
Location: 105-N-Roof

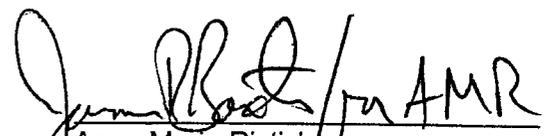
SAMPLE IDENTIFICATION	
Client ID:	J18YF2
ALS ID:	0907400-03
SAMPLE DESCRIPTION	
Homogeneity:	Homog.
Color:	Black
Texture:	Resinous
Description:	Roofing
SAMPLE PREP	
Starting Weight (g):	3.7650
Residue Weight (g):	1.0289
Weight Percent Residue:	27.33
PERCENT ASBESTOS DETECTED IN RESIDUE	
Chrysotile:	0
Grunerite:	0
Crocidolite:	0
Actinolite-Tremolite:	0
Anthophyllite:	0
TOTAL IN RESIDUE	ND
ASBESTOS PERCENT IN SAMPLE	
	ND

ND = None Detected

TRACE = <1%

*Notes: P. O. #: NA.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

0907400

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			RC-006-209	Page 2 of 7
Collector Buckenberger/Moore	Company Contact Mike Stankovich	Telephone No. 430-7142	Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround 7 Days	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f	Sampling Location 105-N Roof		SAF No. RC-006			
Ice Chest No. Fed Ex Box	Field Logbook No. EL-1516-15	COA R105N01000	Method of Shipment FED EX			
Shipped To DataChem Laboratories - Cincinnati	Offsite Property No. A040149		Bill of Lading/Air Bill No. SEE OSPC			
POSSIBLE SAMPLE HAZARDS/REMARKS PACM						
Special Handling and/or Storage N/A						
SAMPLE ANALYSIS						
Sample No.	Matrix *	Sample Date	Sample Time	Preservation	No.	
J18YF3	OTHER SOLID	7/22/09	0809	None		
J18YF4	OTHER SOLID	7/22/09	0807	G/P		
J18YF62	OTHER SOLID	7/22/09	0805	1		
J18YF8	OTHER SOLID			5g		
J18YF7	OTHER SOLID			Asbestos- BULK-EPA		
CHAIN OF POSSESSION						
Relinquished By/Removed From <i>MZK</i>	Date/Time 0900	Received By/Stored In Fed Ex	Date/Time			
Relinquished By/Removed From <i>FED EX</i>	Date/Time 7/23/09	Received By/Stored In <i>AMC/MUE/RT/SL</i>	Date/Time 7/23/09 10:08			
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time			
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time			
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time			
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time			
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time			
SPECIAL INSTRUCTIONS analysis by PCM, if results are between 1-5% also perform TEM.				Matrix *		
				S-Sol		
				SE-Sediment		
				SO-Solid		
				SH-Sludge		
				W-Water		
				O-Oil		
				A-Air		
				DS-Drum Solids		
				DL-Drum Liquids		
				T-Tissue		
				W-Wipe		
				L-Liquid		
				V-Vegetation		
				X-Other		
LABORATORY SECTION	Received By <i>Mike Riste</i>	Title 7/23/09	Date/Time 10:08	Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				

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22
23
26/1/09