

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 8/27/09</u> INITIAL/DATE
Mike Stankovich	X5-50	<u>KW 8/27/09</u> INITIAL/DATE

COMMENTS:

SDG 0908334

SAF-RC-006

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site(s): 1902-D

RECEIVED
SEP 09 2009
EDMC



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

Test Report
Page 1 of 2
8/26/09

RECEIVED
AUG 2009

REFERENCE DATA:

Client Sample No.: J19505 through J19508
P.O. No.: N/A
Sample Location: 1902-D
Sample Type: Bulk
Method Reference: EPA-600/R-93/116
ALS Work Order No.: 0908334
ALS Sample ID No.: 0908334-01 through 0908334-04
Sample Receipt Date: 8/19/09
Analysis Date: 8/26/09

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: 1902-D

Client Sample ID:	J19505	J19506	J19507	J19508
ALS Sample ID:	0908334-01	0908334-02	0908334-03	0908334-04
Macroscopic Examination				
Accepted/Rejected:	Accepted	Accepted	Rejected	Rejected
Homogeneity:	Homog.	Homog.		
Color:	Black	Grey		
Texture:	Fbrs/Resns	Powdery		
Description:	Material	Material		
Analysis:	PLM	PLM		
Asbestiform Minerals				
% Chrysotile:				
% Amosite:				
% Crocidolite:				
% Tremolite - Actinolite:				
% Anthophyllite:				
% Total Asbestos:	ND	ND		
Other Materials				
% Cellulose:	>50 ≤ 60	>30 ≤ 40		
% Fiberglass:				
% Other Fibers:				
% Resin/Binder:	>20 ≤ 30			
% Non Fibrous:	>5 ≤ 10	>50 ≤ 60		

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: N/A. Sample numbers J19507 and J19508 were rejected due to sample matrix. Paint samples cannot be analyzed by PLM.


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.

0908334

Washington Closure Hanford Collector Buckenberger		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST Project Coordinator KESSNER, JH		RC-006-215	Page 1 of 1
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Telephone No. 430-7142		Price Code 9K	Data Turnaround 7 Days
Ice Chest No. Fed Ex Box		Sampling Location 1902-D		SAF No. RC-006	
Shipped To DataChem Laboratories - Cincinnati		Field Logbook No. EL-1516-15		Method of Shipment FED EX	
POSSIBLE SAMPLE HAZARDS/REMARKS PACM		COA RD4MXX2F00		Bill of Lading/Air Bill No. SEE OSPC	
Special Handling and/or Storage Asbestos		Offsite Property No. A090150			

Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Sign/Print Names	
					Received By/Removed From	Date/Time
J19505	OTHER SOLID	08-17-09	09:40	None	<i>[Signature]</i>	8-17-09 10:25
J19506	OTHER SOLID	08-17-09	09:45	G/P	<i>[Signature]</i>	8-17-09 13:00
J19507	OTHER SOLID	08-17-09	09:50	1	<i>[Signature]</i>	8-18-09
J19508	OTHER SOLID	08-17-09	09:55	5g	<i>[Signature]</i>	8-18-09
J4060CB	OTHER SOLID			Asbestos- RUL-K-EPA		

CHAIN OF POSSESSION		SPECIAL INSTRUCTIONS	
Received By/Removed From	Date/Time	Received By/Removed From	Date/Time
<i>[Signature]</i>	8-17-09 10:25	<i>[Signature]</i>	8-17-09 10:25
<i>[Signature]</i>	8-17-09 13:00	<i>[Signature]</i>	8-17-09 13:00
<i>[Signature]</i>	8-18-09	<i>[Signature]</i>	8-18-09
<i>[Signature]</i>	8-18-09	<i>[Signature]</i>	8-18-09
<i>[Signature]</i>	8-18-09	<i>[Signature]</i>	8-18-09

LABORATORY SECTION Received By *[Signature]* Date/Time 8/19/08
FINAL SAMPLE DISPOSITION Disposal Method *[Signature]* Date/Time 8/19/08

SPECIAL INSTRUCTIONS
 Perform TEM if bulk results are between 1-5%
 PLM test 8-17-09
 Sampler unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

Disposed By *[Signature]*
 Date/Time 8/19/08
 Title

Kessner, Joan H

From: Anna.Marie Ristich [Anna.Marie.Ristich@ALSEnviro.com]
Sent: Wednesday, August 26, 2009 3:28 PM
To: Gothard, Debbie J; Whatley, Zona G (Gwen); Ruby, Henry W; Kessner, Joan H; Brasker, William L
Subject: PLM results 0908334
Attachments: 0908334 PLM.pdf

Hi All,
 Here are the PLM results for J19505 through J19508. Let me know if you'd like TEM Gravimetrics run on the paint samples.
 Thanks!

Anna Marie Ristich
 Microscopy Section Manager
ALS Laboratory Group
 Environmental Division
 4388 Glendale-Milford Road
 Cincinnati, OH 45242
 Office Telephone: 513-733-5336 ext.310
 Direct Fax: 513-733-5347
www.alsglobal.com

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