

0080702

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 3/26/09
INITIAL/DATE

COMMENTS:

SDG 09-A-1496

SAF-RC-006

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site(s): 107-N

RECEIVED
APR 01 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 3
3/25/09

REFERENCE DATA:

Client Sample No.: J18LN1 through J18LR3
P.O. No.: Not Available
Sample Location: 107-N
Sample Type: Bulk
Method Reference: EPA-600/R-93/116
DCL Set ID No.: 09-A-1496
DCL Sample ID No.: 09-07812 through 09-07817
Sample Receipt Date: 3/25/09
Analysis Date: 3/25/09

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 DataChem Laboratories 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 DataChem Laboratories 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.

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



ALS DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report

Client: Washington Closure Hanford
Location: 107-N

Client Sample ID:	J18LN1	J18LN2	J18LN3	J18LR1	J18LR2
DCL Sample ID:	09-07812	09-07813	09-07814	09-07815	09-07816A
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Layered	Homog.	Homog.	Layered
Color:	Grey	Grey/Yellow	Grey	Grey	Grey
Texture:	Crmbly/Fbrs	Crmbly/Fbrs	Crmbly/Fbrs	Crmbly/Fbrs	Crmbly/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	Trace		>1 ≤ 3	Trace	
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	Trace	ND	>1 ≤ 3	Trace	ND
Other Materials					
% Cellulose:					
% Fiberglass:	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>60 ≤ 70	>60 ≤ 70	>60 ≤ 70	>60 ≤ 70	>60 ≤ 70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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.



ALS DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report

Client: Washington Closure Hanford
Location: 107-N

Client Sample ID:	J18LR2	J18LR3
DCL Sample ID:	09-07816B	09-07817
Macroscopic Examination		
Accepted/Rejected:	Accepted	Accepted
Homogeneity:	Layered	Homog.
Color:	Black	Grey
Texture:	Resns/Fbrs	Crmbly/Fbrs
Description:	Material	Material
Analysis:	PLM	PLM
Asbestiform Minerals		
% Chrysotile:	>10 ≤ 20	
% Amosite:		
% Crocidolite:		
% Tremolite - Actinolite:		
% Anthophyllite:		
% Total Asbestos:	>10 ≤ 20	ND
Other Materials		
% Cellulose:	>5 ≤ 10	
% Fiberglass:		>20 ≤ 30
% Other Fibers:		
% Resin/Binder:	>40 ≤ 50	
% Non Fibrous:	>10 ≤ 20	>60 ≤ 70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.

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.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-203	Page 2 of 2	
Collector Buckenberger/Moore		Company Contact Mike Stankovich		Telephone No. 430-7142		Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location 1142-N 107-N ^{107-N}		SAF No. RC-006		107 3/24/09		7 Days ASA
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1516-14		COA RD4MXX2F00		Method of Shipment FED EX		
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A090148		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				
09-A-1496			No. of Container(s)	1				
			Volume	5g				
SAMPLE ANALYSIS			Asbestos- BULK-EPA					
Sample No. 09-	Matrix *	Sample Date	Sample Time					
J18LMS	OTHER SOLID							
J18LNO	OTHER SOLID							
J18LN1 07812	OTHER SOLID	3-24-09	09:18	X				
J18LN2 07813	OTHER SOLID	3-24-09	09:19	X				
J18LN3 07814	OTHER SOLID	3-24-09	09:20	X				
CHAIN OF POSSESSION			Sign/Print Names		SPECIAL INSTRUCTIONS			Matrix *
Relinquished By/Removed From C. Buckenberger		Date/Time 3-24-09 09:40	Received By/Stored In M. J. Stankovich		Date/Time 3/24/09	RUSH		S=Soil SE=Sediment SO=Solid SI=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue Wl=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From M. J. Stankovich		Date/Time MAR 24 2009 10:30	Received By/Stored In J.R. Edmonson		Date/Time 3-24-09 1030	TEM if between 1% - 5%		
Relinquished By/Removed From J.R. Edmonson		Date/Time 3-24-09 1200	Received By/Stored In Fed Ex		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			
LABORATORY SECTION	Received By	Title				Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				Date/Time		

CB
2-24-09

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-204		Page 4 of 4	
Collector Buckenberger/Moore		Company Contact Mike Stankovich		Telephone No. 430-7142		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location 119-N 107N 3/24/09		SAF No. RC-006		no 3/24/09 ^{7 Days} ASAP			
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1516-14		COA RD4MXX2F00		Method of Shipment FED EX			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A090148		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					
			No. of Container(s)	1					
			Volume	5g					
SAMPLE ANALYSIS			Asbestos-BULK-EPA						
			1496						
Sample No.	Matrix *	Sample Date	Sample Time						
J18LP9	OTHER SOLID								
J18LR0	OTHER SOLID								
J18LR1 07815	OTHER SOLID	3-24-09	09:15	X					
J18LR2 07816	OTHER SOLID	3-24-09	09:16	X					
J18LR3 07817	OTHER SOLID	3-24-09	09:17	X					
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By/Removed From		Date/Time		Sign/Print Names		Date/Time		RUSH	
C. Buckenberger		3-24-09 09:40		M. Stankovich		3/24/09 0940		TEM if PLM is between 1%-5%	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
M. Stankovich		MAR 24 2009 1030		J.R. Stankovich		3-24-09 1030			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
J.R. Stankovich		3-24-09 1200		Fed Ex		3/25/09 1054			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION	Received By	Title				Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				Date/Time			