

SAF-RC-040
300 Area D&D Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Renee Nielson L1-01

KW 5/7/07
INITIAL/DATE

COMMENTS:

SDG 07-A-2149

SAF-RC-040

Rad only

Chem only

Rad & Chem

Complete

Partial

Sample Location/Waste Site: 308 Building

RECEIVED
MAY 29 2007

EDMC



**DATA
CHEM**
LABORATORIES, INC.

5/3/07
Page 1 of 5

SUBMITTED TO:

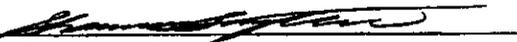
Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354



REFERENCE DATA:

Client Sample No.: J14YR9 through J14YV7
P.O. No.: Not Available
Sample Location: 308 Building
Sample Type: Bulk
Method Reference: EPA-600/R-93/116
DCL Set ID No.: 07-A-2149
DCL Sample ID No.: 07-12873 through 07-12891
Sample Receipt Date: 4/24/07
Analysis Date: 5/3/07

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. 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.

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..

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3706
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: 308 Building
Set ID: 07-A-2149

Client Sample ID:	J14YR9	J14YT0	J14YT1	J14YT2	J14YT3
DCL Sample ID:	07-12873	07-12874	07-12875	07-12876	07-12877
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Homog.	Homog.
	Inseparable	Inseparable	Inseparable		
Color:	Grey	Grey/Black	Grey/Black	Grey	Grey
Texture:	Spongy/Rbbry	Spgy/Resn/Rbbry	Spgy/Rbbry/Resn	Crumbly	Crmbly/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:		>1 ≤ 3	Trace		>3 ≤ 5
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	>1 ≤ 3	Trace	ND	>3 ≤ 5
Other Materials					
% Cellulose:		>3 ≤ 5			
% Fiberglass:				>20 ≤ 30	>20 ≤ 30
% Other Fibers:					>5 ≤ 10
% Resin/Binder:	>3 ≤ 5	>5 ≤ 10	>3 ≤ 5		
% Non Fibrous:	>90 ≤ 100	>80 ≤ 90	>90 ≤ 100	>60 ≤ 70	>50 ≤ 60

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.

5/3/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: 308 Building
Set ID: 07-A-2149

Client Sample ID:	J14YT4	J14YT5	J14YT6	J14YT7	J14YT8
DCL Sample ID:	07-12883	07-12884	07-12885	07-12886	07-12887
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Black	Grey	Yellow	Yellow	Yellow
Texture:	Resinous	Crmby/Fbrs	Fibrous	Fibrous	Fibrous
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:	>3 ≤ 5		Trace		
% Fiberglass:		>20 ≤ 30	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100
% Other Fibers:		>5 ≤ 10			
% Resin/Binder:	>50 ≤ 60				
% Non Fibrous:	>30 ≤ 40	>50 ≤ 60	>1 ≤ 3	>1 ≤ 3	>1 ≤ 3

ND = None Detected Trace = <1%

Special Prep Procedures: None.

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


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Microscopist

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5/3/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: 308 Building
Set ID: 07-A-2149

Client Sample ID:	J14YT9	J14YV0	J14YV1	J14YV2	J14YV3
DCL Sample ID:	07-12878	07-12879	07-12880	07-12881	07-12882
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
Color:	Inseparable	Inseparable	Inseparable	Inseparable	Inseparable
Texture:	Grey/Black	Grey/Black	Grey/Black	Grey/Black	Grey
Description:	Spgy/Resn/Rbbry	Spgy/Resn/Rbbry	Spgy/Resn/Rbbry	Spgy/Resn/Rbbry	Spngy/Rbbry
Analysis:	Accepted PLM	Accepted PLM	Accepted PLM	Accepted PLM	Material PLM
Asbestiform Minerals					
% Chrysotile:	>1 ≤ 3	>1 ≤ 3	>5 ≤ 10	>1 ≤ 3	
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>1 ≤ 3	>1 ≤ 3	>5 ≤ 10	>1 ≤ 3	ND
Other Materials					
% Cellulose:	>3 ≤ 5	>3 ≤ 5	>10 ≤ 20	>3 ≤ 5	
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:	>5 ≤ 10	>5 ≤ 10	>20 ≤ 30	>5 ≤ 10	>3 ≤ 5
% Non Fibrous:	>80 ≤ 90	>80 ≤ 90	>30 ≤ 40	>80 ≤ 90	>90 ≤ 100

ND = None Detected Trace = <1%

Special Prep Procedures: None.

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


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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.

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: 308 Building
Set ID: 07-A-2149

Client Sample ID:	J14YV4	J14YV5	J14YV6	J14YV7
DCL Sample ID:	07-12888	07-12889	07-12890	07-12891
Macroscopic Examination				
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Homog.	Homog.
	Inseparable	Inseparable		
Color:	Grey/Black	Grey	Yellow	Grey
Texture:	Spgy/Resn/Rbbry	Fbrs/Crmby	Fibrous	Crumbly
Description:	Accepted	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM
Asbestiform Minerals				
% Chrysotile:				
% Amosite:				
% Crocidolite:				
% Tremolite - Actinolite:				
% Anthophyllite:				
% Total Asbestos:	ND	ND	ND	ND
Other Materials				
% Cellulose:	>5 ≤ 10			
% Fiberglass:		>20 ≤ 30	>90 ≤ 100	
% Other Fibers:				
% Resin/Binder:	>20 ≤ 30			
% Non Fibrous:	>50 ≤ 60	>60 ≤ 70	>1 ≤ 3	>90 ≤ 100

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.

U1-H-2144

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-258	Page 6 of 10
Collector Mike Stankovich/Tim Lee		Company Contact Tim Lee		Telephone No. 373-4596		Project Coordinator KESSNER, JH	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 308 Building		SAF No. RC-040		Price Code 9K Data Turnaround 7 Days	
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-		COA See Below		Method of Shipment Federal Express	
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070262		Bill of Lading/Air Bill No. See OSPC			
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Asbestos</i>				Preservation	None		
Special Handling and/or Storage				Type of Container	G/P		
				No. of Container(s)	1		
				Volume	5g		
SAMPLE ANALYSIS				Asbestos-BULK-EPA			
Sample No. 07	Matrix *	Sample Date	Sample Time				
J14YR9 12873	OTHER SOLID	4-23-07	0900	X			
J14YT0 12874	OTHER SOLID		0903	X			
J14YT1 12875	OTHER SOLID		0906	X			
J14YT2 12876	OTHER SOLID		0909	X			
J14YT3 12877	OTHER SOLID		0912	X			
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS	
Relinquished By/Removed From <i>Mike Stankovich</i>		Date/Time 4/23/07 1200	Received By/Stored In <i>[Signature]</i>		Date/Time APR 23 2007 1200	Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R30800 1000	
Relinquished By/Removed From <i>[Signature]</i>		Date/Time APR 23 2007 1500	Received By/Stored In FED EX		Date/Time	Matrix *	
Relinquished By/Removed From <i>[Signature]</i>		Date/Time	Received By/Stored In <i>[Signature]</i>		Date/Time 4/24/07/1338	S=Soil SE=Settiment SO=Solid SI=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Trione WT=Wipe L=Liquid V=Vegetation X=Other	
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 <i>[Signature]</i>	Title				Date/Time 4/24/07/1338	
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				Date/Time	

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Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-258	Page 8 of 10
Collector Mike Stankovich/Tim Lee		Company Contact Tim Lee		Telephone No. 373-4596		Project Coordinator KESSNER, JH	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 308 Building		SAF No. RC-040		Price Code 9K Data Turnaround 7 Days	
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-		COA See Below		Method of Shipment Federal Express	
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070262		Bill of Lading/Air Bill No. See OSPC			
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos		Preservation		None			
Special Handling and/or Storage		Type of Container		G/P			
		No. of Container(s)		1			
		Volume		5g			
SAMPLE ANALYSIS				Asbestos-BULK-EPA			
Sample No.	Matrix *	Sample Date	Sample Time				
J14YT9 12878	OTHER SOLID	4.23.07	0930	X			
J14YV0 12879	OTHER SOLID	↓	0933	X			
J14YV1 12880	OTHER SOLID	↓	0936	X			
J14YV2 12881	OTHER SOLID	↓	0939	X			
J14YV3 12882	OTHER SOLID	↓	0944	X			
CHAIN OF POSSESSION			Sign/Print Names		SPECIAL INSTRUCTIONS		
Relinquished By/Removed From <i>Mike Stankovich</i>		Date/Time 4/23/07 1200	Received By/Stored In <i>NTS Singleton</i>		Date/Time APR 23 2007 1200	Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R30800 1000	
Relinquished By/Removed From <i>NTS Singleton</i>		Date/Time APR 23 2007 1500	Received By/Stored In FED EX		Date/Time	Matrix *	
Relinquished By/Removed From <i>Fed Ex</i>		Date/Time	Received By/Stored In <i>NTS Singleton</i>		Date/Time 4/24/07 1538	S=Soil SE=Soilment 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		
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 <i>NTS Singleton</i>		Title		Date/Time 4/24/07 1538	
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time	

6149

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-258	Page 2 of 10
Collector Mike Stankovich/Tim Lee		Company Contact Tim Lee		Telephone No. 373-4596		Project Coordinator KESSNER, JH	Price Code 9K Data Turnaround 7 Days
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 308 Building		SAF No. RC-040			
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-		COA See Below		Method of Shipment Federal Express	
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070262		Bill of Lading/Air Bill No. See OSPC			
POSSIBLE SAMPLE HAZARDS/REMARKS		Preservation					
Asbestos		None					
Special Handling and/or Storage		Type of Container					
		G/P					
		No. of Container(s)					
		1					
		Volume					
		5g					
SAMPLE ANALYSIS		Asbestos-BULK-EPA					
Sample No.	Matrix *	Sample Date	Sample Time				
J14YT4 12883	OTHER SOLID	4-23-07	0915	X			
J14YT5 12884	OTHER SOLID		0918	X			
J14YT6 12885	OTHER SOLID		0921	X			
J14YT7 12886	OTHER SOLID		0924	X			
J14YT8 12887	OTHER SOLID		0927	X			
CHAIN OF POSSESSION			Sign/Print Names		SPECIAL INSTRUCTIONS		
Relinquished By/Removed From	Date/Time	Received By/Store In	Date/Time	Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00			Matrix * S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other
<i>M. Stankovich</i>	4/23/07 1200	<i>Tim Lee</i>	APR 23 2007 1200	Sampling COA - R30800 1000			
Relinquished By/Removed From	Date/Time	Received By/Store In	Date/Time				
<i>WCH</i>	APR 23 2007 1500	FED EX					
Relinquished By/Removed From	Date/Time	Received By/Store In	Date/Time				
<i>[Signature]</i>		<i>[Signature]</i>	4/24/07 1538				
Relinquished By/Removed From	Date/Time	Received By/Store In	Date/Time				
Relinquished By/Removed From	Date/Time	Received By/Store In	Date/Time				
Relinquished By/Removed From	Date/Time	Received By/Store In	Date/Time				
LABORATORY SECTION	Received By	Title		Date/Time			
	<i>[Signature]</i>			4/24/07 1538			
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By		Date/Time			

2144

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-258	Page 2 of 10
Collector Mike Stankovich/Tim Lee		Company Contact Tim Lee		Telephone No. 373-4596		Project Coordinator KESSNER, JH	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 308 Building		SAF No. RC-040		Price Code 9K Data Turnaround 7 Days	
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-		COA See Below		Method of Shipment Federal Express	
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A 070262		Bill of Lading/Air Bill No. See OSPC			
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos					Preservation	None	
Special Handling and/or Storage					Type of Container	GP	
					No. of Container(s)	1	
					Volume	5g	
SAMPLE ANALYSIS					Asbestos-BULK-EPA		
Sample No.	Matrix *	Sample Date	Sample Time				
J14YV4 12888	OTHER SOLID	4-23-07	0945	X			
J14YV5 12889	OTHER SOLID	↓	0948	X			
J14YV6 12890	OTHER SOLID	↓	0951	X			
J14YV7 12891	OTHER SOLID	↓	0954	X			
12892	OTHER SOLID						
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time		Sign/Print Names		Received By/Stored In	
M. Stankovich		4/23/07 1200		M. Stankovich		APR 23 2007 1200	
Relinquished By/Removed From		Date/Time		Sign/Print Names		Received By/Stored In	
W. B. Singletary		APR 23 2007 1500		FED EX			
Relinquished By/Removed From		Date/Time		Sign/Print Names		Received By/Stored In	
P. ...		4/24/07 1330					
Relinquished By/Removed From		Date/Time		Sign/Print Names		Received By/Stored In	
Relinquished By/Removed From		Date/Time		Sign/Print Names		Received By/Stored In	
Relinquished By/Removed From		Date/Time		Sign/Print Names		Received By/Stored In	
Relinquished By/Removed From		Date/Time		Sign/Print Names		Received By/Stored In	
LABORATORY SECTION		Received By		Title		Date/Time	
		[Signature]				4/24/07/1330	
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time	