

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

COMPLETE COPY OF DATA PACKAGE TO:

Renee Nielson	L1-04	<u> </u> NB 2/28/06 <u> </u> INITIAL/DATE
Amy Hood	L1-07	<u> </u> NB 2/28/06 <u> </u> INITIAL/DATE
Jeanette Duncan	H9-02	<u> </u> NB 2/28/06 <u> </u> INITIAL/DATE

COMMENTS:

SDG 06-A-0637 SAF-RC-040

Rad only Chem only Rad & Chem
 Complete Partial

Sample Location/Waste Site: 333 Asbestos Sampling

RECEIVED
MAR 09 2006
EDMC



SUBMITTED TO:

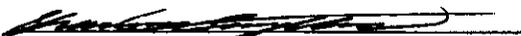
Joan Kessner
Washington Closure Hanford
3190 George Washington Way, MSIN H9-02
Richland, WA 99352



REFERENCE DATA:

Client Sample No.: J117H5 through J117K3
P.O. No.: Not Available
Sample Location: 333 Asbestos Sampling
Sample Type: Bulk
Method Reference: EPA-600/R-93/116
DCL Set ID No.: 06-A-0637
DCL Sample ID No.: 06-03559 through 06-03577
Sample Receipt Date: 2/16/06
Analysis Date: 2/21/06

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
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WEST COAST OFFICE
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NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

RC-040

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

Client: Washington Closure Hanford
Location: 333 Asbestos Sampling
Set ID: 06-A-0637

Client Sample ID:	J117H5	J117H6	J117H7	J117H8	J117H9
DCL Sample ID:	06-03559	06-03560	06-03561	06-03562	06-03563
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
	Inseparable	Inseparable	Inseparable	Inseparable	Inseparable
Color:	Yellow/Grey	Yellow/Grey	Grey	Yellow/Grey	Grey
Texture:	Fibrous	Fbrs/Flex	Crmby/Fbrs	Fibrous	Crmby/Fbrs
Description:	Insulation	Insulation	Material	Insulation	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:	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10
% Fiberglass:	>80 ≤ 90	>70 ≤ 80		>80 ≤ 90	
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>1 ≤ 3	>5 ≤ 10	>80 ≤ 90	>1 ≤ 3	>80 ≤ 90

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.

2/21/06

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

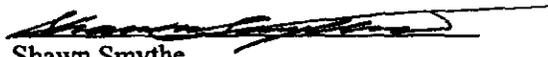
Client: Washington Closure Hanford
Location: 333 Asbestos Sampling
Set ID: 06-A-0637

Client Sample ID:	J117J0	J117J1	J117J2	J117J3	J117J4
DCL Sample ID:	06-03573	06-03574	06-03575	06-03576	06-03577
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
	Inseparable	Inseparable	Inseparable	Inseparable	Inseparable
Color:	Yellow/Grey	Yellow/Grey	Yellow/Grey	Grey	Grey/Yellow
Texture:	Fibrous	Fibrous	Fibrous	Crmby/Fbrs	Crmby/Fbrs
Description:	Insulation	Insulation	Insulation	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:	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10
% Fiberglass:	>80 ≤ 90	>80 ≤ 90	>80 ≤ 90	>20 ≤ 30	>30 ≤ 40
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>1 ≤ 3	>1 ≤ 3	>1 ≤ 3	>60 ≤ 70	>40 ≤ 50

ND = None Detected Trace = <1%

Special Prep Procedures: None.

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


Shawn Smythe
Microscopist

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2/21/06

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

Client: Washington Closure Hanford
Location: 333 Asbestos Sampling
Set ID: 06-A-0637

Client Sample ID:	J117J5	J117J6	J117J7	J117J8	J117J9
DCL Sample ID:	06-03568	06-03569	06-03570	06-03571	06-03572
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered			Layered	Layered
	Inseparable			Inseparable	Inseparable
Color:	Grey			Yellow/Grey	Grey
Texture:	Crmby/Fbrs			Fibrous	Crmby/Fbrs
Description:	Material			Insulation	Material
Analysis:	PLM			PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>5 ≤ 10				
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>5 ≤ 10			ND	ND
Other Materials					
% Cellulose:	>5 ≤ 10			>5 ≤ 10	>5 ≤ 10
% Fiberglass:				>80 ≤ 90	
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>70 ≤ 80			>1 ≤ 3	>80 ≤ 90

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available. Sample numbers J117J6 and J117J7 were not analyzed per client request.


Shawn Smythe
Microscopist

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2/21/06

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

Client: Washington Closure Hanford
Location: 333 Asbestos Sampling
Set ID: 06-A-0637

Client Sample ID:	J117K0	J117K1	J117K2	J117K3
DCL Sample ID:	06-03564	06-03565	06-03566	06-03567
Macroscopic Examination				
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Heterog.	Homog.	Layered Inseparable	Layered Inseparable
Color:	Brown/Grey	Grey	Yellow/Grey	Yellow/Grey
Texture:	Crmbly/Fbrs	Fbrs/Crmbly	Fbrs/Rbbry	Fibrous
Description:	Material	Ceiling Tile	Insulation	Insulation
Analysis:	PLM	PLM	PLM	PLM
Asbestiform Minerals				
% Chrysotile:				
% Amosite:				
% Crocidolite:				
% Tremolite - Actinolite:				
% Anthophyllite:				
% Total Asbestos:	ND	ND	ND	ND
Other Materials				
% Cellulose:	>10 ≤ 20	>40 ≤ 50	>5 ≤ 10	>5 ≤ 10
% Fiberglass:	>5 ≤ 10	>20 ≤ 30	>70 ≤ 80	>80 ≤ 90
% Other Fibers:				
% Resin/Binder:	>20 ≤ 30			
% Non Fibrous:	>30 ≤ 40	>10 ≤ 20	>5 ≤ 10	>1 ≤ 3

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-040-035		Page 1 of 4	
Collector Amy Hood		Company Contact Scot Adams		Telephone No. 372-9869		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 333 Asbestos Sampling		SAF No. RC-040		Air Quality <input type="checkbox"/>			
Ice Chest No. <i>NA</i>		Field Logbook No. EL-1516-8		COA		Method of Shipment Hand deliver - Govt. vehicle			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. <i>NA</i>				Bill of Lading/Air Bill No. <i>8544 9435 2057</i>			
POSSIBLE SAMPLE HAZARDS/REMARKS <i>PACM, Non-Rad Possible Beryllium Contamination</i>			Preservation	None					
Special Handling and/or Storage <i>PACM, Non-Rad</i>			Type of Container	G/P or Whirl Pack					
<i>06-A-0637</i>			No. of Container(s)	1					
			Volume	5g					
SAMPLE ANALYSIS			Asbestos-TRW	<i>Bulk</i>					
			CPA	<i>OH 2/16/06</i>					
Sample No	Matrix *	Sample Date	Sample Time						
J117H5 <i>03559</i>	OTHER SOLID	<i>2/13/06</i>	<i>0953</i>	X					
J117H6 <i>03560</i>	OTHER SOLID	<i>2/13/06</i>	<i>0958</i>	X					
J117H7 <i>03561</i>	OTHER SOLID	<i>2/13/06</i>	<i>1014</i>	X	<i>-Run w/ J117H9 to first positive Asbestos</i>				
J117H8 <i>03562</i>	OTHER SOLID	<i>2/13/06</i>	<i>1018</i>	X					
J117H9 <i>03563</i>	OTHER SOLID	<i>2/13/06</i>	<i>1024</i>	X	<i>-Run w/ J117H7 to first positive Asbestos</i>				
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Personnel not available to Relinquish samples from 3728 Ref # <i>2C</i> on <i>2/15/06</i>	
<i>HUDSON Hudson</i>		<i>2/13/06 1620</i>		<i>3728 2C</i>		<i>2/13/06 1620</i>			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
<i>3728 2C</i>		<i>2-15-06 / 0900</i>		<i>RE Steffler R2 Steffler</i>		<i>2-15-06 0900</i>			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
<i>RE Steffler R2 Steffler</i>		<i>2-15-06 1600 with</i>		<i>Fed EX</i>		<i>2/16/06 10:30</i>			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		S=Soil SE=Soilmen SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=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	Title				Date/Time			
	<i>[Signature]</i>	<i>RC50</i>				<i>2/16/06 10:30</i>			
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-035		Page 2 of 4		
Collector Amy Hood		Company Contact Scot Adams		Telephone No. 372-9869		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days		
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 333 Asbestos Sampling		SAF No. RC-040		Air Quality <input type="checkbox"/>				
Ice Chest No. NA		Field Logbook No. EL-1516-8		COA		Method of Shipment Hand deliver - Govt. vehicle				
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. NA		Bill of Lading/Air Bill No. 8544 9435 2057						
POSSIBLE SAMPLE HAZARDS/REMARKS PACM, Non-Rad Possible Beryllium Contamination		Preservation		None						
Special Handling and/or Storage PACM, Non-Rad		Type of Container		G/P or Whirl Pack						
0637		No. of Container(s)		1						
		Volume		5g						
SAMPLE ANALYSIS		Asbestos-9004		BA 2/13/06						
		Bulk EPA								
Sample No.	Matrix *	Sample Date	Sample Time							
J117J0 03573	OTHER SOLID	2/13/06	1027	X						
J117J1 03574	OTHER SOLID	2/13/06	1236	X						
J117J2 03575	OTHER SOLID	2/13/06	1247	X						
J117J3 03576	OTHER SOLID	2/13/06	1301	X						
J117J4 03577	OTHER SOLID	2/13/06	1307	X						
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS						Matrix *
Relinquished By/Removed From Davidson Hudson		Date/Time 2/13/06 1620		Received By/Stored In 3728 ZC		Date/Time 2/13/06 1620		Personnel not available to Relinquish samples from 3728 Ref # ZC on 2/15/06.		S=Soil SE=Soil/Env 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
Relinquished By/Removed From 3728 ZC		Date/Time 2-15-06 0400		Received By/Stored In RZ Steffler R Z Steffler		Date/Time 2-15-06 0400				
Relinquished By/Removed From RZ Steffler R Z Steffler		Date/Time 2-15-06 1600		Received By/Stored In Fid EK		Date/Time 2-15-06 1600				
Relinquished By/Removed From Fid EK		Date/Time 2-15-06 1030		Received By/Stored In [Signature]		Date/Time 2/16/06 1030				
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 [Signature]		Title RSP		Date/Time 2/16/06 1030				
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time				

Collector Army Hood	Company Contact Scot Adams	Telephone No. 372-9869	Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround 7 Days
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli	Sampling Location 333 Asbestos Sampling	SAF No. RC-040	Air Quality <input type="checkbox"/>		
Ice Chest No. NA	Field Logbook No. EL-1516-8	COA	Method of Shipment Hand deliver - Govt. vehicle		
Shipped To DataChem Laboratories - Cincinnati	Offsite Property No. NA	Bill of Lading/Air Bill No. 8544 9435 2057			

POSSIBLE SAMPLE HAZARDS/REMARKS PACM, Non-Rad Possible Beryllium Contamination Special Handling and/or Storage PACM, Non-Rad	Preservation	None																		
	Type of Container	G/P or Whirl Pack																		
	No. of Container(s)	1																		
	Volume	5g																		

SAMPLE ANALYSIS

0637

Asbestos - PCBs
BULK EPA 2/13/06

Sample No.	Matrix *	Sample Date	Sample Time																		
J117J5 03568	OTHER SOLID	2/13/06	1313	X																	
J117J6 03569	OTHER SOLID	2/13/06	1317	X	} run together to first positive																
J117J7 03570	OTHER SOLID	2/13/06	1320	X																	
J117J8 03571	OTHER SOLID	2/13/06	1337	X																	
J117J9 03572	OTHER SOLID	2/13/06	1343	X																	

CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS								Matrix *	
Relinquished By/Removed From B. HUDSON	Date/Time 2/13/06 1620	Received By/Stored In 3728 ZC	Date/Time 1620 2/13/06	Personnel not available to relinquish samples from 3728 Ref # ZC on 2/15/06								S=Soil SE=Soil/rock SO=Soil SL=Sediment 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 3728 ZC	Date/Time 2-15-06 0900	Received By/Stored In R. Steffler R. J. Steffler	Date/Time 2-15-06 0900														
Relinquished By/Removed From R. Steffler R. J. Steffler	Date/Time 2-15-06 1600	Received By/Stored In Fed Ex	Date/Time 2-15-06														
Relinquished By/Removed From Fed Ex	Date/Time 2-15-06	Received By/Stored In CJZ	Date/Time 2/16/06 10:30														
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 [Signature]	Title CSO	Date/Time 2/16/06 10:30
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-035	Page 4 of 4		
Collector Army Hood		Company Contact Scot Adams		Telephone No. 372-9869		Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround 7 Days	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soil		Sampling Location 333 Asbestos Sampling		SAF No. RC-040		Air Quality <input type="checkbox"/>			
Ice Chest No. NA		Field Logbook No. EL-1516-8		COA		Method of Shipment Hand deliver - Govt. vehicle			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. NA		Bill of Lading/Air Bill No. 8544 9435 2057					
POSSIBLE SAMPLE HAZARDS/REMARKS PACM, Non-Rad Possible Beryllium Contamination			Preservation	None					
Special Handling and/or Storage PACM, Non-Rad			Type of Container	G/P or Whirl Pack					
			No. of Container(s)	1					
			Volume	5g					
SAMPLE ANALYSIS 0637			Asbestos-Perm	Bulk					
Sample No.	Matrix *	Sample Date	Sample Time						
J117K0 03564	OTHER SOLID	2/13/06	1356	X					
J117K1 03565	OTHER SOLID	2/13/06	1410	X					
J117K2 03566	OTHER SOLID	2/13/06	1090	X					
J117K3 03567	OTHER SOLID	2/13/06	1010	X					
J117K4	OTHER SOLID				BH 2/13/06				
CHAIN OF POSSESSION			Sign/Print Names			SPECIAL INSTRUCTIONS			Matrix *
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time	Personnel not available to relinquish samples from 3728 Ref # 2C on 2/15/06			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
3728 2C		2-15-06 / 0900	RE Steffler R. J. Hill		2-15-06				
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time				
RE Steffler R. J. Hill		2-15-06	Fed EX						
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time				
Fed Ex			CN		2/16/06 10:30				
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time				
LABORATORY SECTION		Received By	Title		Date/Time				
CN		CSO		2/16/06 10:30					
FINAL SAMPLE DISPOSITION		Disposal Method	Disposed By		Date/Time				