

0074152

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

**COMPLETE COPY OF DATA PACKAGE TO:**

Mike Stankovich

L1-01

KW 10/10/07  
INITIAL/DATE

**COMMENTS:**

**SDG 07-A-5507**

**SAF-RC-040**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Sample Location/Waste Site: 384 Building**

**RECEIVED**  
CCT 17 2007  
**EDMC**



10/3/07  
Page 1 of 4

**SUBMITTED TO:**

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



**REFERENCE DATA:**

Client Sample No.:	J15P98 through J15PB7
P.O. No.:	Not Available
Sample Location:	384 Building
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-5507
DCL Sample ID No.:	07-31949 through 07-31958
Sample Receipt Date:	9/28/07
Analysis Date:	10/3/07

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.

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CINCINNATI, OHIO 45242-3708  
513 733-5336, FAX 513 733-5347

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

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

Client: Washington Closure Hanford  
Location: 384 Building  
Set ID: 07-A-5507

Client Sample ID:	J15P98	J15P99	J15PB0	J15PB1	J15PB2
DCL Sample ID:	07-31949	07-31950	07-31951	07-31952	07-31953A
<b>Macroscopic Examination</b>					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Heterog.
Color:	Inseparable Black/Grey	Inseparable Grey/Black	Inseparable Grey/Black	Inseparable Yellow/Black	Yellow
Texture:	Resn/Crmby/Fbrs	Crmby/Fbrs/Resn	Crmby/Fbrs/Resn	Fbrs/Resns	Fibrous
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
<b>Asbestiform Minerals</b>					
% Chrysotile:	>10 ≤ 20	>3 ≤ 5	>3 ≤ 5	>5 ≤ 10	
% Amosite:		>10 ≤ 20	>10 ≤ 20		
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>10 ≤ 20	>13 ≤ 25	>13 ≤ 25	>5 ≤ 10	ND
<b>Other Materials</b>					
% Cellulose:	>5 ≤ 10	>3 ≤ 5	>3 ≤ 5	>3 ≤ 5	
% Fiberglass:	>3 ≤ 5			>50 ≤ 60	>80 ≤ 90
% Other Fibers:					
% Resin/Binder:	>50 ≤ 60	>5 ≤ 10	>5 ≤ 10	>10 ≤ 20	
% Non Fibrous:	>5 ≤ 10	>60 ≤ 70	>60 ≤ 70	>5 ≤ 10	>5 ≤ 10

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.

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

Client: Washington Closure Hanford  
Location: 384 Building  
Set ID: 07-A-5507

Client Sample ID:	J15PB2	J15PB3	J15PB4	J15PB5	J15PB6
DCL Sample ID:	07-31953B	07-31954	07-31955	07-31956	07-31957
<b>Macroscopic Examination</b>					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Heterog.	Homog.	Layered Inseparable	Layered Inseparable	Layered Inseparable
Color:	Black	Black	Black/Yellow	Yellow/Black	Black/Grey
Texture:	Resns/Fbrs	Resns/Fbrs	Resns/Fbrs	Fbrs/Resns	Resns/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
<b>Asbestiform Minerals</b>					
% Chrysotile:	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20	>5 ≤ 10	>10 ≤ 20
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
<b>% Total Asbestos:</b>	<b>&gt;10 ≤ 20</b>	<b>&gt;10 ≤ 20</b>	<b>&gt;10 ≤ 20</b>	<b>&gt;5 ≤ 10</b>	<b>&gt;10 ≤ 20</b>
<b>Other Materials</b>					
% Cellulose:					
% Fiberglass:	>3 ≤ 5	>3 ≤ 5	>5 ≤ 10	>50 ≤ 60	>5 ≤ 10
% Other Fibers:					
% Resin/Binder:	>50 ≤ 60	>50 ≤ 60	>40 ≤ 50	>10 ≤ 20	>40 ≤ 50
% Non Fibrous:	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20	>5 ≤ 10	>10 ≤ 20

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.

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

Client: Washington Closure Hanford  
Location: 384 Building  
Set ID: 07-A-5507

Client Sample ID:	J15PB7
DCL Sample ID:	07-31958
<b>Macroscopic Examination</b>	
Accepted/Rejected:	Accepted
Homogeneity:	Layered Inseparable
Color:	Black/Yellow
Texture:	Resns/Fbrs
Description:	Material
Analysis:	PLM
<b>Asbestiform Minerals</b>	
% Chrysotile:	>10 ≤ 20
% Amosite:	
% Crocidolite:	
% Tremolite - Actinolite:	
% Anthophyllite:	
<b>% Total Asbestos:</b>	<b>&gt;10 ≤ 20</b>
<b>Other Materials</b>	
% Cellulose:	
% Fiberglass:	>5 ≤ 10
% Other Fibers:	
% Resin/Binder:	>40 ≤ 50
% Non Fibrous:	>10 ≤ 20

ND = None Detected    Trace = <1%

Special Prep Procedures: None.

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

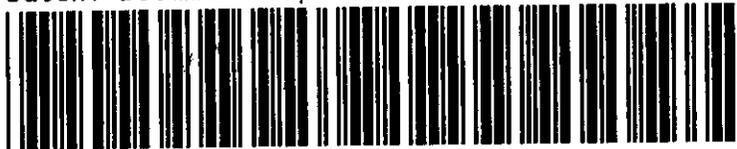
  
Shawn Smythe  
Microscopist

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-040-329	Page 1 of 2
Collector Mike Stankovich		Company Contact Mike Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH	Price Code 9K Data Turnaround 7 Days
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 384 Building		SAF No. RC-040			
Ice Chest No. <i>FED EX BOX</i>		Field Logbook No. EL-1518-9		COA <i>see below</i>		Method of Shipment Federal Express	
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. <i>A070420</i>		Bill of Lading/Air Bill No. See OSCP			
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 <i>07-A-5507</i>			
Sample No. <i>07</i>	Matrix *	Sample Date	Sample Time				
J15P98 <i>31949</i>	OTHER SOLID	<i>9-26-07</i>	<i>0930</i>	X			
J15P99 <i>31950</i>	OTHER SOLID	<i>↓</i>	<i>0935</i>	X			
J15PB0 <i>31951</i>	OTHER SOLID		<i>0940</i>	X			
J15PB1 <i>31952</i>	OTHER SOLID		<i>0945</i>	X			
J15PB2 <i>31953</i>	OTHER SOLID		<i>0950</i>	X			
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS		Matrix *	
Relinquished By/Removed From <i>Mike Stankovich</i>		Date/Time <i>9/26/07</i>		Received By/Stored In <i>3728/SB</i>		Date/Time <i>9/26/07 1200</i>	
Relinquished By/Removed From <i>3728/SB</i>		Date/Time <i>9-26-07 1240</i>		Received By/Stored In <i>3728/SB</i>		Date/Time <i>9-26-07 1240</i>	
Relinquished By/Removed From <i>3728/SB</i>		Date/Time <i>9-26-07 1500</i>		Received By/Stored In <i>FED EX</i>		Date/Time <i>9-26-07</i>	
Relinquished By/Removed From <i>Leadex</i>		Date/Time <i>9/26/07</i>		Received By/Stored In <i>9/26/07 1324</i>		Date/Time <i>9-26-07</i>	
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 <i>9/26/07 1324</i>		Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method <i>[Signature]</i>	Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-329	Page 2 of 2
Collector Mike Stankovich		Company Contact Mike Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soil		Sampling Location 384 Building		SAF No. RC-040		Price Code 9K Data Turnaround 7 Days	
Ice Chest No. <b>FED EX BOX</b>		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express	
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. <b>A070470</b>		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				
			<b>5507</b>				
Sample No.	Matrix *	Sample Date	Sample Time				
J15PB3	31954 OTHER SOLID	9-26-07	0955	X			
J15PB4	31955 OTHER SOLID	}	1000	X			
J15PB5	31956 OTHER SOLID		1005	X			
J15PB6	31957 OTHER SOLID		1010	T			
J15PB7	31959 OTHER SOLID		1015	T			
CHAIN OF POSSESSION			Sign/Print Names		SPECIAL INSTRUCTIONS		
Relinquished By/Removed From		Date/Time	Received By/Stored In	Date/Time	Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00		
<i>Mike Stankovich</i>		1200	3728/3B	9/26/07 1200	Sampling COA - R38400 1000		
Relinquished By/Removed From		Date/Time	Received By/Stored In	Date/Time	sampler unavailable to relinquish samples from 3728 Ref # 3B. 3728 Custodian removed samples for shipping on 9/26/07.		
<i>Mike Stankovich</i>		9-26-07 1240	<i>Mike Stankovich</i>	9-26-07 1240			
Relinquished By/Removed From		Date/Time	Received By/Stored In	Date/Time			
<i>Mike Stankovich</i>		10/11/07 1500	<i>FED EX</i>				
Relinquished By/Removed From		Date/Time	Received By/Stored In	Date/Time			
<i>Fedex</i>			<i>Mike Stankovich</i>	9/26/07 1324			
Relinquished By/Removed From		Date/Time	Received By/Stored In	Date/Time	Matrix * S=Soil SE=Soil/Slurry SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Dry Solid DL=Dry Liquid T=Thick W=Wipe L=Liquid V=Vegetation X=Other		
Relinquished By/Removed From		Date/Time	Received By/Stored In	Date/Time			
LABORATORY SECTION		Received By	<i>[Signature]</i>		Date/Time	9/26/07 1324	
FINAL SAMPLE DISPOSITION		Disposal Method			Disposed By	Date/Time	

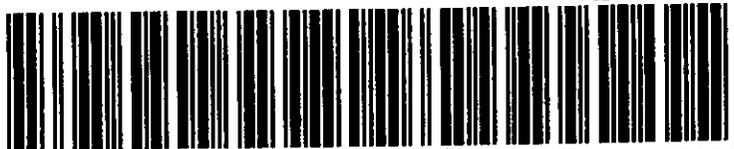
Batch: Document Separator



\*isbat-DOCSEP\*

Hanford's ISEARCH Kodak Scanner Sheet (10.2 bar resolution)

(Feed top edge into scanner transport first.)



Batch: Document Separator

\*isbat-DOCSEP\*