

0074198

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 10/16/07
INITIAL/DATE

COMMENTS:

SDG 07-A-5628

SAF-RC-040

Rad only

Chem only

Rad & Chem

Complete

Partial

Sample Location/Waste Site: 3718A
3718B
3718N

RECEIVED
OCT 24 2007
EDMC



10/11/07
Page 1 of 6



SUBMITTED TO:

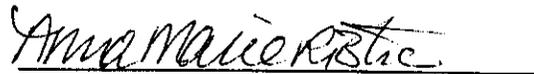
Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354

REFERENCE DATA:

Client Sample No.:	J15PC5 through J15PF0
P.O. No.:	Not Available
Sample Location:	3718A, 3718B, 3718N
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-5628
DCL Sample ID No.:	07-32578 through 07-32593
Sample Receipt Date:	10/3/07
Analysis Date:	10/10/07 through 10/11/07

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
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NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-8468

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

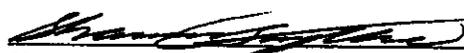
Client: Washington Closure Hanford
Location: 3718A, 3718B, 3718N
Set ID: 07-A-5628

Client Sample ID:	J15PC5	J15PC5	J15PC6	J15PC6	J15PC7
DCL Sample ID:	07-32578A	07-32578B	07-32579A	07-32579B	07-32580
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
Color:	Grey	Black	Grey	Black	Inseparable
Texture:	Fbrs/Crmby	Crumbly	Compact	Resinous	Grey/Tan
Description:	Ceiling Tile	Mastic	Tile	Mastic	Crmby/Fbrs
Analysis:	PLM	PLM	PLM	PLM	Drywall PLM
Asbestiform Minerals					
% Chrysotile:			>1 ≤ 3		
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:		Trace			
% Total Asbestos:	ND	Trace	>1 ≤ 3	ND	ND
Other Materials					
% Cellulose:	>40 ≤ 50				>10 ≤ 20
% Fiberglass:	>20 ≤ 30				
% Other Fibers:		>1 ≤ 3			
% Resin/Binder:		>70 ≤ 80	>10 ≤ 20	>70 ≤ 80	
% Non Fibrous:	>10 ≤ 20	>10 ≤ 20	>70 ≤ 80	>10 ≤ 20	>70 ≤ 80

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.

10/11/07

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

Client: Washington Closure Hanford
Location: 3718A, 3718B, 3718N
Set ID: 07-A-5628

Client Sample ID:	J15PC8	J15PC8	J15PC9	J15PC9	J15PD0
DCL Sample ID:	07-32581A	07-32581B	07-32582A	07-32582B	07-32583
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Homog.
Color:	Grey	Brown	Grey	Brown	Grey
Texture:	Flexible	Crumbly	Flexible	Crumbly	Fbrs/Crmby
Description:	Covebase	Mastic	Covebase	Mastic	Ceiling Tile
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	>40 ≤ 50
% Fiberglass:					>20 ≤ 30
% Other Fibers:		>1 ≤ 3			
% Resin/Binder:	>20 ≤ 30	>70 ≤ 80	>20 ≤ 30	>60 ≤ 70	
% Non Fibrous:	>60 ≤ 70	>10 ≤ 20	>60 ≤ 70	>20 ≤ 30	>10 ≤ 20

ND = None Detected Trace = <1%

Special Prep Procedures: None.

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


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Microscopist

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10/11/07

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

Client: Washington Closure Hanford
Location: 3718A, 3718B, 3718N
Set ID: 07-A-5628

Client Sample ID:	J15PD1	J15PD1	J15PD2	J15PD2	J15PD3
DCL Sample ID:	07-32584A	07-32584B	07-32585A	07-32585B	07-32586
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
Color:	Grey	Black	Grey	Brown	Inseparable
Texture:	Fbrs/Crmby	Crumbly	Flexible	Crumbly	Grey/Tan
Description:	Ceiling Tile	Mastic	Covebase	Mastic	Crmby/Fbrs
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:	>40 ≤ 50				>10 ≤ 20
% Fiberglass:	>20 ≤ 30				
% Other Fibers:				>1 ≤ 3	
% Resin/Binder:		>60 ≤ 70	>20 ≤ 30	>70 ≤ 80	
% Non Fibrous:	>10 ≤ 20	>20 ≤ 30	>60 ≤ 70	>10 ≤ 20	>70 ≤ 80

ND = None Detected Trace = <1%

Special Prep Procedures: None.

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


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Microscopist

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10/11/07

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

Client: Washington Closure Hanford
Location: 3718A, 3718B, 3718N
Set ID: 07-A-5628

Client Sample ID:	J15PD4	J15PD5	J15PD6	J15PD7	J15PD7
DCL Sample ID:	07-32587	07-32588	07-32589	07-32590A	07-32590B
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Homog.	Layered	Layered	Layered
	Inseparable		Inseparable		
Color:	Grey/Tan	Grey	Yellow/Grey	Black	Brown
Texture:	Crmby/Fbrs	Crmby/Fbrs	Fbrs/Pwdry	Flexible	Crumbly
Description:	Drywall	Material	Material	Covebase	Mastic
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:	>10 ≤ 20				>1 ≤ 3
% Fiberglass:		>20 ≤ 30	>80 ≤ 90		
% Other Fibers:		>5 ≤ 10			
% Resin/Binder:				>20 ≤ 30	>60 ≤ 70
% Non Fibrous:	>70 ≤ 80	>50 ≤ 60	>5 ≤ 10	>60 ≤ 70	>20 ≤ 30

ND = None Detected Trace = <1%

Special Prep Procedures: None.

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


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Microscopist

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10/11/07

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

Client: Washington Closure Hanford
Location: 3718A, 3718B, 3718N
Set ID: 07-A-5628

Client Sample ID:	J15PD8	J15PD8	J15PD9	J15PD9	J15PF0
DCL Sample ID:	07-32591A	07-32591B	07-32592A	07-32592B	07-32593
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered Inseparable
Color:	Grey	Tan	Grey	Tan	Grey/Tan
Texture:	Compact	Crumbly	Compact	Crumbly	Crmbly/Fbrs
Description:	Tile	Mastic	Tile	Mastic	Drywall
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:					>10 ≤ 20
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:	>10 ≤ 20	>70 ≤ 80	>10 ≤ 20	>70 ≤ 80	
% Non Fibrous:	>70 ≤ 80	>10 ≤ 20	>70 ≤ 80	>10 ≤ 20	>70 ≤ 80

ND = None Detected Trace = <1%

Special Prep Procedures: None.

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


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Microscopist

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Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-330		Page 1 of 4		
Collector Mike Stankovich		Company Contact Tim Lee		Telephone No. 627-8639		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days		
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 3718A		SAF No. RC-040						
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express				
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A0800021 1080021		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 07-A-5628				Asbestos- BULK-EPA						
Sample No.	Matrix *	Sample Date	Sample Time							
J15PC5	OTHER SOLID	10-2-07	0915	X	07-	32578				
J15PC6	OTHER SOLID		0920	X	-	32579				
J15PC7	OTHER SOLID		0925	X		32580				
J15PC8	OTHER SOLID		0930	X		32581				
J15PC9	OTHER SOLID		0935	X		32582				
CHAIN OF POSSESSION			Sign/Print Names		SPECIAL INSTRUCTIONS					
Relinquished By/Removed From M. Stankovich 10/2/07		Date/Time 10/2/07		Received By/Stored In 3728/20		Date/Time 10/2/07 1100		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00		Matrix * S=Soil SE=Soil/trace SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Dry Solids DL=Dry Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From 3728/20		Date/Time 10-2-07 1235		Received By/Stored In M. Stankovich		Date/Time 10-2-07 1235		Samples unavailable to relinquish samples from 3728 Ref # 25. 3728 Custodian removed samples for shipping on 10/2/07.		
Relinquished By/Removed From M. Stankovich		Date/Time 10-2-07 1500		Received By/Stored In FED EX		Date/Time				
Relinquished By/Removed From FED EX		Date/Time		Received By/Stored In 10/3/07 11031		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 10/31/07/1031					
FINAL SAMPLE DISPOSITION	Disposal Method		Disposed By		Date/Time					

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-330	Page 2 of 4		
Collector Mike Stankovich		Company Contact Tim Lee		Telephone No. 627-8639		Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround 7 Days	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 3718A		Levee J15PD4 = 3718B		SAF No. RC-040			
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080021		Bill of Lading/Air Bill No. See OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos				Preservation None	Type of Container G/P	No. of Container(s) 1	Volume 5g		
Special Handling and/or Storage				Asbestos-BULK-EPA					
SAMPLE ANALYSIS 5628									
Sample No.	Matrix *	Sample Date	Sample Time						
J15PD0	OTHER SOLID	10-2-07	0940	X			07-32583		
J15PD1	OTHER SOLID	}	0945	X			-32584		
J15PD2	OTHER SOLID		0950	X			-32585		
J15PD3	OTHER SOLID		0955	X			-32586		
J15PD4	OTHER SOLID		1000	X		(3718B)	-32587		
CHAIN OF POSSESSION			Sign/Print Names		SPECIAL INSTRUCTIONS				
Relinquished By/Removed From M. Stankovich		Date/Time 10/2/07 1100	Received By/Stored In 3728/2B		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00				Matrix * S=Soil SE=Settlement 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 3728/2B		Date/Time 10-2-07 0335	Received By/Stored In KMS		Sampler unavailable to relinquish samples from 3728 Ref # 2B				
Relinquished By/Removed From M. Stankovich		Date/Time 10-2-07 1500	Received By/Stored In FED EX		3728 Custodian removed samples for shipping on 10/2/07				
Relinquished By/Removed From F. [Signature]		Date/Time	Received By/Stored In [Signature]						
Relinquished By/Removed From		Date/Time	Received By/Stored In						
Relinquished By/Removed From		Date/Time	Received By/Stored In						
LABORATORY SECTION	Received By [Signature]		Title		Date/Time 10/3/07 11051				
FINAL SAMPLE DISPOSITION	Disposal Method		Disposed By		Date/Time				

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-330		Page 2 of 4													
Collector Mike Stankovich		Company Contact Tim Lee		Telephone No. 627-8639		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days													
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 3718 N		SAF No. RC-040																	
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express															
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080021		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 5628				Asbestos-BULK-EPA																	
Sample No.	Matrix *	Sample Date	Sample Time																		
J15PD5	OTHER SOLID	10-2-07	1005	X																	
J15PD6	OTHER SOLID	}	100	X																	
J15PD7	OTHER SOLID		1015	X																	
J15PD8	OTHER SOLID		1020	X																	
J15PD9	OTHER SOLID		1025	X																	
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS				Matrix *									
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Samples unavailable to relinquish samples from 3728 Ref # 25. 3728 Custodian removed samples for shipping on 10/2/07.				S=Soil SE=Soilmen SO=Solid SI=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Trash 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															
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													

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-330		Page 4 of 4												
Collector Mike Stankovich		Company Contact Tim Lee		Telephone No. 627-8639		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days												
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 3718N		SAF No. RC-040																
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express														
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080021		Bill of Lading/Air Bill No. Sec 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 5628				Asbestos- BULK-EPA																
Sample No.	Matrix *	Sample Date	Sample Time																	
J15PF0	OTHER SOLID	10-2-07	1030	X																
J15PF1	OTHER SOLID																			
J15PF2	OTHER SOLID																			
J15PF3	OTHER SOLID																			
J15PF4	OTHER SOLID																			
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS				Matrix *								
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Samples analyzed to determine samples from 3728 Ref # 2B. 3728 Custodian removed samples for shipping on 10/12/07.				<ul style="list-style-type: none"> S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air D5=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other 								
M. Stankovich		10/2/07		3728/2B		10/2/07 1100														
3728/2B		10-2-07		1235 Tim Stankovich		10-2-07 1235														
M. Stankovich		10-2-07 1500		FED EX																
F. Stankovich						10/3/07/1031														
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												