

SAF-RC-032
100-F Remaining Sites Burial Grounds -
Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Randy Coffman	X9-07	<u>KW 5/21/07</u> INITIAL/DATE
Jeanette Duncan	H4-21	<u>KW 5/21/07</u> INITIAL/DATE

COMMENTS:

SDG 07-A-2525

SAF-RC-032

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site: 118-F-1 Verification / Shallow Zone / Focus

RECEIVED
MAY 29 2007

EDMC



5/16/07
Page 1 of 3

SUBMITTED TO:

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



REFERENCE DATA:

Client Sample No.:	J152H8 through J152J3
P.O. No.:	Not Available
Sample Location:	118-F-1 Verification/Shallow zone/Focus
Sample Type:	Bulk
Method Reference:	DCL Procedure: ENV-004
DCL Set ID No.:	07-A-2525
DCL Sample ID No.:	07-14509 through 07-14514
Sample Receipt Date:	5/10/07
Analysis Date:	5/16/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using DataChem Laboratories' procedure, ENV-004. The samples were acceptable upon receipt except where noted. Mountings of fibers observed and representative portions of the material were 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 portions of 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

*Some samples may contain fibers that are not visible by PLM and can only be discovered by electron microscopy techniques.

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 415 883-9419

RC-032

5/16/07

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

Client: Washington Closure Hanford
Location: 118-F-1 Verification/Shallow zone/Focus
Set ID: 07-A-2525

Client Sample ID:	J152H8	J152H9	J152J0	J152J1	J152J2
DCL Sample ID:	07-14509	07-14510	07-14511	07-14512	07-14513
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Granular	Granular	Granular	Granular	Granular
Description:	Soil	Soil	Soil	Soil	Soil
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:			Trace		
% Amosite:	Trace				
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	Trace	ND	Trace	ND	ND
Other Materials					
% Cellulose:		Trace			
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100	>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.

5/16/07

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

Client: Washington Closure Hanford
Location: 118-F-1 Verification/Shallow zone/Focus
Set ID: 07-A-2525

Client Sample ID: J152J3
DCL Sample ID: 07-14514

Macroscopic Examination

Accepted/Rejected: Accepted
Homogeneity: Homog.
Color: Grey
Texture: Granular
Description: Soil
Analysis: PLM

Asbestiform Minerals

% Chrysotile:
% Amosite:
% Crocidolite:
% Tremolite - Actinolite:
% Anthophyllite:
% Total Asbestos: ND

Other Materials

% Cellulose:
% Fiberglass:
% Other Fibers:

% Resin/Binder:
% Non Fibrous: >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.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-032-108	Page 1 of 2	
Collector Coffman/DeBuigne		Company Contact R.T. Coffman		Telephone No. 528-6409		Project Coordinator KESSNER, JH	Price Code 8F	Data Turnaround 7 DAY
Project Designation 100-F Remaining Sites Burial Grounds - Soil Full Protocol		Sampling Location 118-F-1 Verification/Shallow Zone/Focus			SAF No. RC-032			
Ice Chest No. SAWS-49		Field Logbook No. EFL-1174-2		COA R118F12000		Method of Shipment FED EX		
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070265			Bill of Lading/Air Bill No. See OSA			
POSSIBLE SAMPLE HAZARDS/REMARKS NA				Preservation	None			
Special Handling and/or Storage NA				Type of Container	P			
07-A-2525				No. of Container(s)	1			
				Volume	250mL			
SAMPLE ANALYSIS				Asbestos-BULK-EPA				
Sample No	07 -	Matrix *	Sample Date	Sample Time				
J152M8	14504	SOIL	5/7/07	0600	X			Focus #1
J152H9	14510	SOIL		0805	X			" #2
J152J0	14511	SOIL		0810	X			" #3
J152J1	14512	SOIL		0840	X			" #7
J152J2	14513	SOIL	5/7/07	0845	X			" #8
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS		
Relinquished By/Removed From RT Coffman / JTB/ma		Date/Time 5/7/07 1350		Received By/Stored In JTB/ma		Date/Time 5-7-07/1350		Matrix *
Relinquished By/Removed From JTB/ma		Date/Time 5-7-07 1430		Received By/Stored In JTB/ma		Date/Time 5-7-07		S=Soil
Relinquished By/Removed From 3728/BA		Date/Time MAY 08 2007 0820		Received By/Stored In JTB/ma		Date/Time MAY 08 2007 0820		SE=Sediment
Relinquished By/Removed From K. Bingle		Date/Time MAY 08 2007 1500		Received By/Stored In FED EX		Date/Time		SO=Solid
Relinquished By/Removed From FED EX		Date/Time		Received By/Stored In JTB/ma		Date/Time 5/10/07 0927		SI=Sludge
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		W=Water
LABORATORY SECTION		Received By JTB/ma		Date/Time 5/10/07 0927		SAMPLER UNAVAILABLE TO RELINQUISH SAMPLES FROM 3728 REF # 3A. 3728 CUSTODIAN REMOVED SAMPLES FOR SHIPPING ON 5/8/07.		O=Oil
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time		A=Air

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-032-108		Page 2 of 2	
Collector Coffman/DeBuigne		Company Contact R.T. Coffman		Telephone No. 528-6409		Project Coordinator KESSNER, JH		Price Code 8F Data Turnaround 2 Day	
Project Designation 100-F Remaining Sites Burial Grounds - Soil Full Protocol		Sampling Location 118-F-1 Verification/Shallow Zone/Focus			SAF No. RC-032				
Ice Chest No. SAWS-49		Field Logbook No. EFL-1174-2		COA R118F12000		Method of Shipment FED EX			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070265			Bill of Lading/Air Bill No. See O5PC				
POSSIBLE SAMPLE HAZARDS/REMARKS <i>NA</i>		Preservation		None					
Special Handling and/or Storage <i>NA</i>		Type of Container		P					
		No. of Container(s)		1					
		Volume		250mL					
SAMPLE ANALYSIS				Asbestos-BULK-EPA					
				2525					
Sample No.	Matrix *	Sample Date	Sample Time						
J152J3 14514	SOIL	5/7/07	0850	X					Focus #9
CHAIN OF POSSESSION					SPECIAL INSTRUCTIONS				
Relinquished By/Removed From		Date/Time		Sign/Print Names		Date/Time		Matrix *	
<i>R. Coffman / R. Coffman</i>		5/7/07 1350		<i>JR DeBuigne JR DeBuigne</i>		5-7-07/1350		S=Soil SE=Sediment SO=Solid SF=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WJ=W/pc L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From		Date/Time		Sign/Print Names		Date/Time			
<i>JR DeBuigne JR DeBuigne</i>		5-7-07 1430		372813A		5-7-07 1430			
Relinquished By/Removed From		Date/Time		Sign/Print Names		Date/Time			
372813A		MAY 08 2007 0820		<i>[Signature]</i>		MAY 08 2007 0820			
Relinquished By/Removed From		Date/Time		Sign/Print Names		Date/Time			
<i>M. Simons</i>		MAY 08 2007 1500		FED EX					
Relinquished By/Removed From		Date/Time		Sign/Print Names		Date/Time			
<i>[Signature]</i>				<i>[Signature]</i>		5/10/07 0927			
Relinquished By/Removed From		Date/Time		Sign/Print Names		Date/Time			
LABORATORY SECTION	Received By	<i>[Signature]</i>				Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method	5/10/07 0927				Disposed By		Date/Time	