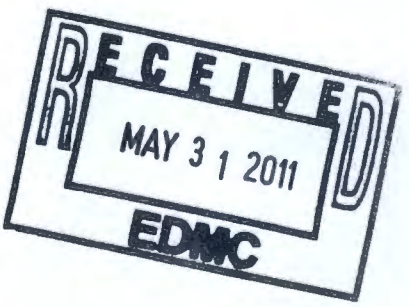
0096794

SAF-RC-040
300 Area D4 Waste Characterization Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required

KW 5/17/11
INITIAL/DATE



COMMENTS:

SDG MA01996 SAF-RC-040

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location/Waste Site: Building 320

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Asbestos PLM
Cover Sheet

Sample Date:	March 17, 2011
Receipt Date:	March 18, 2011
Reporting Date:	May 10, 2011
SDG #:	MA01996
SAF#:	RC-040
Data Deliverable:	7 Day Turn

Customer Sample Number	Laboratory Sample Number	Analytical Batch Identification	Sample Matrix
J1FJX9	MFVN0	1129353	OTHER SOLID
J1FK01	MFVN2	1129353	OTHER SOLID
J1FK02	MFVN3	1129353	OTHER SOLID
J1FK03	MFVN4	1129353	OTHER SOLID

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Dennis O'Neill
Project Manager

2800 George Washington Way Richland, WA 99354 **tel** 509.375.3131 **fax** 509.375.5590 **www.testamericainc.com**

We certify that the following samples were prepared by Polarized Light Microscopy for asbestos and other fibrous constituents using TestAmerica's procedure, RL-ASB-002. 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 Asbestos PLM analysis data sheet. TestAmerica will dispose of all bulk samples after 60 days unless other arrangements are made.

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

TA Richland
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	1129353
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01996
Date:	5/10/11	Revision 2			
Sample ID	**MFVN01AA**				
Client ID	J1FJX9'				
Macroscopic examination					
Sample Description	**Multiple Layer Sample: tar paper**	**Multiple Layer Sample: mineral wool**	**TOTAL SAMPLE ***		
Homogeneous	Y	Y	N		
Color	black/white	yellow	black/yellow/white		
% Visible Fibers	30	100	80		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophylite	ND	ND	ND		
% Total Asbestos	**ND**	**ND**	**ND**		
Other Materials					
% Cellulose	47	ND	20		
% Glass Fibers	ND	100	70		
% Other fibers	ND	ND	ND		
% Non-fibrous	53	ND	10		

Comments:
**** The sample contains 2 distinct homogeneous layers which were analyzed and reported separately. The total asbestos content (calculated as weighted average) of the sample is reported as well.***

Note: "ND" stands for "None Detected". "TRA" stands for "<1%"

TA Richland
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	1129353_2
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01996
Date:	5/10/11	Revision 2			
Sample ID	**MFVN21AA**				
Client ID	J1FK01'				
Macroscopic examination					
Sample Description	**Multiple Layer Sample: tar paper**	**Multiple Layer Sample: mineral wool**	**TOTAL SAMPLE ***		
Homogeneous	Y	Y	N		
Color	black/white	yellow	black/yellow/white		
% Visible Fibers	30	100	80		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophylite	ND	ND	ND		
% Total Asbestos	**ND**	**ND**	**ND**		
Other Materials					
% Cellulose	20	ND	8		
% Glass Fibers	12	100	70		
% Other fibers	ND	ND	ND		
% Non-fibrous	68	ND	22		

Comments:
**** The sample contains 2 distinct homogeneous layers which were analyzed and reported separately. The total asbestos content (calculated as weighted average) of the sample is reported as well.***

Note: "ND" stands for "None Detected". "TRA" stands for "<1%"

TA Richland
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	1129353_3
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01996
Date:	5/10/11	Revision 2			
Sample ID	**MFVN31AA**				
Client ID	J1FK02'				
Macroscopic examination					
Sample Description	**Multiple Layer Sample: tar paper**	**Multiple Layer Sample: mineral wool**	**TOTAL SAMPLE ***		
Homogeneous	Y	Y	N		
Color	black/white	yellow	black/yellow/white		
% Visible Fibers	30	100	50		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophylite	ND	ND	ND		
% Total Asbestos	**ND**	**ND**	**ND**		
Other Materials					
% Cellulose	37	ND	15		
% Glass Fibers	7	100	30		
% Other fibers	ND	ND	ND		
% Non-fibrous	56	ND	55		

Comments:
**** The sample contains 2 distinct homogeneous layers which were analyzed and reported separately. The total asbestos content (calculated as weighted average) of the sample is reported as well.***

Note: "ND" stands for "None Detected". "TRA" stands for "<1%"

TA Richland
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	1129353_4
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01996
Date:	5/10/11	Revision 2			
Sample ID	**MFVN41AA**				
Client ID	J1FK03'				
Macroscopic examination					
Sample Description	**Multiple Layer Sample: paint and paper**	**Multiple Layer Sample: powder**	**TOTAL SAMPLE ***		
Homogeneous	N	Y	N		
Color	white	white	white		
% Visible Fibers	90	5	10		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophylite	ND	ND	ND		
% Total Asbestos	**ND**	**ND**	**ND**		
Other Materials					
% Cellulose	37	ND	9		
% Glass Fibers	ND	ND	ND		
% Other fibers	ND	ND	ND		
% Non-fibrous	63	100	91		

Comments:
**** The sample contains 2 distinct homogeneous layers which were analyzed and reported separately. The total asbestos content (calculated as weighted average) of the sample is reported as well.***

Note: "ND" stands for "None Detected". "TRA" stands for "<1%"

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-040-568	Page 2 of 2
Collector Inions/Deroos	**Company Contact** Mike Stankovich	**Telephone No.** 2062517439	**Project Coordinator** KESSNER, JH	**Price Code** 9K	**Data Turnaround** 7 Days
Project Designation 300 Area D4 Waste Characterization Sampling - Other Solid	**Sampling Location** Building 320		**SAF No.** RC-040	
Ice Chest No. WCH0800302	**Field Logbook No.** EL-1518-18	**COA** RD4MXX2F00	**Method of Shipment** Hand Deliver	
Shipped To Test America Richland (IH)	**Offsite Property No.** NA		**Bill of Lading/Air Bill No.** NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
Asbestos

Special Handling and/or Storage
None

Preservation	None										
Type of Container	G/P										
No. of Container(s)	1										
Volume	60g										
SAMPLE ANALYSIS	Asbestos-Bulk - NIOSH 9002										

J1C180473

Sample No.	Matrix *	Sample Date	Sample Time								
J1FJX9	OTHER SOLID	3-17-11	1315	X		MFVNO					
~~J1FK00~~ NO 3/21/11	~~OTHER SOLID~~										
J1FK01	OTHER SOLID		1317	X		MFVN2					
J1FK02	OTHER SOLID		1320	X		MFVN3					
J1FK03	OTHER SOLID		1325	X		MFVN4					

CHAIN OF POSSESSION

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
James Dolan [illegible]	3-17-11 1500	[illegible]	3/17/11 1500
WCH [illegible]	3/18/11 0900	TALR Cameron Kropa	3-18-11 0905

SPECIAL INSTRUCTIONS
None

J1C180473
SDGMA01996
Due 3.25.11
WCH.

RECEIVED
TE
3/18/11

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
Ve=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011