

**SAF-RC-006**  
**100-N Area D4 – Other**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Bill Rodgers

X9-08

KW 11/26/12  
INITIAL/DATE

**COMMENTS:**

**SDG MA05842**

**SAF-RC-006**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Waste Site(s): 105-B Wash Pad Annex**

## Asbestos PLM Cover Sheet

Sample Date: November 14, 2012  
Receipt Date: November 15, 2012  
Reporting Date: November 24, 2012  
SDG #: MA05842  
SAF#: RC-006  
Data Deliverable: 7 Day Turn

Customer Sample Number	Laboratory Sample Number	Analytical Batch Identification	Sample Matrix
J1R5R1	MXCXJ	2320089	OTHER
J1R5R2	MXCXP	2320089	OTHER
J1R5R3	MXCXX	2320089	OTHER
J1R5R4	MXCX0	2320089	OTHER

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

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 #	2320089
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05842
Date:	11/17/12	Revision 2			
<b>Macroscopic examination</b>					
Sample ID	MXCXJ1AA				
Client ID	J1R5R1				
Sample Description	<u>Multiple Layer Sample: paper</u>	<u>Multiple Layer Sample: wall</u>	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	brown	white	brown/white		
% Visible Fibers	95	20	30		
<b>PLM Analysis</b>					
<b>Asbestos Minerals</b>					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
<b>% Total Asbestos</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>		
<b>Other Materials</b>					
% Cellulose	83	13	25		
% Glass Fibers	7	TRA	5		
% Other fibers	3	ND	ND		
% Non-fibrous	7	87	70		

**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 #	2320089 2
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05842
Date:	11/17/12	Revision 2			
Macroscopic Examination					
Sample ID	MXCXP1AA				
Client ID	J1R5R2				
Sample Description	<u>Multiple Layer Sample: paper and paint</u>	<u>Multiple Layer Sample: wall</u>	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	brown/white	white	brown/white		
% Visible Fibers	90	10	20		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
<b>% Total Asbestos</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>		
Other Materials					
% Cellulose	93	7	20		
% Glass Fibers	3	TRA	TRA		
% Other fibers	ND	ND	ND		
% Non-fibrous	4	93	80		

**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.**

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TA Richland  
Asbestos PLM

Analyst: D. Petty		SOP Information	Method	Batch #	2320089_3
Analyst Signature: <i>[Signature]</i>		RL-ASB-002	NIOSH 9002	SDG #	MA05842
Date: 1/17/12		Revision 2			
Macroscopic examination					
Sample ID	MXCXX1AA				
Client ID	J1R5R3				
Sample Description	<u>Multiple Layer Sample: mineral wool</u>	<u>Multiple Layer Sample: tar paper</u>	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	yellow	brpwn/black	mult		
% Visible Fibers	100	90	95		
PLM Analysis					
Asbestiform Minerals					
% Chrysotile	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
<b>% Total Asbestos</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>		
Other Materials					
% Cellulose	ND	90	10		
% Glass Fibers	100	3	85		
% Other fibers	ND	ND	ND		
% Non-fibrous	ND	7	5		

**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 #	2320089 4
Analyst Signature:	<i>[Signature]</i>	RL-ASB-002	NIOSH 9002	SDG #	MA05842
Date:	11/17/12	Revision 2			
<b>Macroscopic Examination</b>					
Sample ID	MXCX01AA				
Client ID	J1R5R4				
Sample Description	<u>Multiple Layer Sample: mineral wool</u>	<u>Multiple Layer Sample: tar paper</u>	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	yellow	brpwn/black	multi		
% Visible Fibers	100	90	95		
<b>PLM Analysis</b>					
<b>Asbestiform Minerals</b>					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
<b>% Total Asbestos</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>		
<b>Other Materials</b>					
% Cellulose	ND	90	10		
% Glass Fibers	100	5	85		
% Other fibers	ND	ND	ND		
% Non-fibrous	ND	5	5		

**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%"

<b>Washington Closure Hanford</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>			RC-006-379	Page <u>3</u> of <u>3</u> <i>1 of 1</i>
Collector J DeRoos	Company Contact Bill Rodgers	Telephone No. 206.251.7439	Project Coordinator KESSNER, JH		Price Code <b>9K</b>	Data Turnaround <b>7 Days</b>
Project Designation 100-N Area D4 - Other		Sampling Location 105-B Wash Pad Annex		SAF No. RC-006		
Ice Chest No. <b>NA</b>	Field Logbook No. EL-1516-21	COA RD4MXX2F00	Method of Shipment <b>Hand Deliver</b>			
Shipped To Test America Richland (IH)		Offsite Property No. <b>NA</b>		Bill of Lading/Air Bill No. <b>NA</b>		

<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> <i>Possible RAD, Asbestos L DOT Limits # 11-15-12</i>				Preservation None	<i>None</i>										
<b>Special Handling and/or Storage</b> <i>None</i>				Type of Container G/P	<i>GP</i>										
<i>JAKISOY46</i>				No. of Container(s)	1	<i>1</i>									
<i>MAT5842</i> <i>Due 11-22-12</i>				Volume	5g	<i>5g</i>									
				Asbestos-Bulk - NIOSH 9002	<i>RCF</i>	<i>5/15/12</i>									

Sample No.	Matrix *	Sample Date	Sample Time												
J1R5R1 <i>MXCXJ</i>	OTHER	<i>11-14-12</i>	<i>1135</i>	X	X										
J1R5R2 <i>MXCXP</i>	OTHER	<i>11-14-12</i>	<i>1137</i>	X	X										
J1R5R3 <i>MXCXX</i>	OTHER	<i>11-14-12</i>	<i>1145</i>	X	X										
J1R5R4 <i>MXCXO</i>	OTHER	<i>11-14-12</i>	<i>1147</i>	X	X										
<del>J1R5R5</del>	<del>OTHER</del>	<del><i>WHR 11-14-12</i></del>													

<b>CHAIN OF POSSESSION</b>				<b>Sign/Print Names</b>				<b>SPECIAL INSTRUCTIONS</b>				<b>Matrix *</b>			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		None				<ul style="list-style-type: none"> <li>S=Soil</li> <li>SE=Sediment</li> <li>SO=Solid</li> <li>SL=Sludge</li> <li>W=Water</li> <li>O=Oil</li> <li>A=Air</li> <li>DS=Drum Solids</li> <li>DL=Drum Liquids</li> <li>T=Tissue</li> <li>WL=Wipe</li> <li>L=Liquid</li> <li>V=Vegetation</li> <li>X=Other</li> </ul>			
<i>James K. Nelson</i>		<i>11-14-12 1400</i>		<i>W.H. Rodgers</i>		<i>11-14-12 1400</i>									
<i>W.H. Rodgers</i>		<i>11-14-12 1445</i>		<i>A. Freier</i>		<i>11-14-12 1445</i>									
<i>A. Freier</i>		<i>11-14-12 1510</i>		<i>M. Ruff</i>		<i>11-14-12 1510</i>									
<i>M. Ruff</i>		<i>11-15-12 1205</i>		<i>A. Freier</i>		<i>11-15-12 1205</i>									
<i>A. Freier</i>		<i>11-15-12 1317</i>		<i>Lucas Velazquez</i>		<i>11-15-12 1317</i>									
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