

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

**COMPLETE COPY OF DATA PACKAGE TO:**

Bill Rodgers

X9-08

KW 11/8/12  
INITIAL/DATE

**COMMENTS:**

**SDG MA05798**

**SAF-RC-006**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Waste Site(s): 183-D Pump House**

## Asbestos PLM Cover Sheet

Sample Date: November 06, 2012  
Receipt Date: November 07, 2012  
Reporting Date: November 08, 2012  
SDG #: MA05798  
SAF#: RC-006  
Data Deliverable: 24 Hour Turn

Customer Sample Number	Laboratory Sample Number	Analytical Batch Identification	Sample Matrix
J1R587	MW82G	2312076	OTHER
J1R588	MW82H	2312076	OTHER
J1R589	MW82J	2312076	OTHER
J1R590	MW82K	2312076	OTHER
J1R591	MW82L	2312076	OTHER
J1R592	MW82N	2312076	OTHER
J1R593	MW82Q	2312076	OTHER
J1R594	MW82R	2312076	OTHER
J1R595	MW82T	2312076	OTHER
J1R596	MW822	2312076	OTHER
J1R597	MW825	2312076	OTHER
J1R598	MW826	2312076	OTHER
J1R599	MW827	2312076	OTHER
J1R5C0	MW828	2312076	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 #	2312076
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05798
Date:	11/7/12	Revision 2			
<b>Macroscopic examination</b>					
Sample ID	MW82G1AA	MW82H1AA	MW82J1AA	MW82K1AA	MW82L1AA
Client ID	J1R587'	J1R588'	J1R589'	J1R590'	J1R591'
Sample Description	tar and tar paper	tar	tar	tar, fiber mesh and silver coating	tar
Homogeneous	Y	Y	Y	N	Y
Color	black	black	black	black/white/silver	black
% Visible Fibers	20	0	0	10	10
<b>PLM Analysis</b>					
<b>Asbestiform Minerals</b>					
% Chrysotyle	ND	ND	ND	ND	2
% Amosite	ND	ND	ND	ND	ND
% Crocidolite	ND	ND	ND	ND	ND
% Tremolite	ND	ND	ND	ND	ND
% Actinolite	ND	ND	ND	ND	ND
% Anthophyllite	ND	ND	ND	ND	ND
<b>% Total Asbestos</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>2</b>
<b>Other Materials</b>					
% Cellulose	27	7	TRA	20	10
% Glass Fibers	ND	ND	ND	ND	ND
% Other fibers	ND	ND	ND	ND	ND
% Non-fibrous	73	93	100	80	88

**Comments:**

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

**TA Richland  
Asbestos PLM**

Analyst:	D. Petty	SOP Information	Method	Batch #	2312076_2
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05798
Date:	11/7/12	Revision 2			
<b>Sample ID</b>	<b>MW82N1AA</b>	<b>MW82Q1AA</b>	<b>MW82R1AA</b>	<b>MW82T1AA</b>	<b>MW8221AA</b>
<b>Client ID</b>	J1R592'	J1R593'	J1R594'	J1R595'	J1R596'
<b>Macroscopic examination</b>					
Sample Description	tar	tar paper and spray paint	tar paper	roof tile	tar and spray paint
Homogeneous	Y	N	Y	N	Y
Color	black	black/white	black	black/white	black/white
% Visible Fibers	15	20	20	30	30
<b>PLM Analysis</b>					
<b>Asbestiform Minerals</b>					
% Chrysotyle	ND	13	TRA	ND	7
% Amosite	ND	ND	ND	ND	ND
% Crocidolite	ND	ND	ND	ND	ND
% Tremolite	ND	ND	ND	ND	ND
% Actinolite	ND	ND	ND	ND	ND
% Anthophyllite	ND	ND	ND	ND	ND
<b>% Total Asbestos</b>	<b>ND</b>	<b>13</b>	<b>TRA</b>	<b>ND</b>	<b>7</b>
<b>Other Materials</b>					
% Cellulose	ND	2	ND	ND	ND
% Glass Fibers	10	ND	8	8	10
% Other fibers	ND	ND	ND	ND	ND
% Non-fibrous	90	85	92	92	83

**Comments:**

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

**TA Richland  
Asbestos PLM**

Analyst:	D. Petty	SOP Information	Method	Batch #	2312076_3
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05798
Date:	11/7/12	Revision 2			
<b>Macroscopic examination</b>					
Sample ID	MW8251AA	MW8261AA	MW8271AA	MW8281AA	
Client ID	J1R597'	J1R598'	J1R599'	J1R5C0'	
Sample Description	tar paper and spray paint	tar paper and spray paint	tar and tar paper	tar and spray paint	
Homogeneous	Y	Y	N	Y	
Color	black/white	black/white	black	black/white	
% Visible Fibers	30	30	20	10	
<b>PLM Analysis</b>					
<b>Asbestiform Minerals</b>					
% Chrysotyle	20	8	ND	7	
% Amosite	ND	ND	ND	ND	
% Crocidolite	ND	ND	ND	ND	
% Tremolite	ND	ND	ND	ND	
% Actinolite	ND	ND	ND	ND	
% Anthophyllite	ND	ND	ND	ND	
<b>% Total Asbestos</b>	<b>20</b>	<b>8</b>	<b>ND</b>	<b>7</b>	
<b>Other Materials</b>					
% Cellulose	ND	4	ND	ND	
% Glass Fibers	ND	ND	13	ND	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	80	88	87	93	

**Comments:**

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

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-378		Page 1 of 3	
Collector J DeRoos		Company Contact Bill Rodgers		Telephone No. 206.251.7439		Project Coordinator KESSNER, JH		Price Code 9K      Data Turnaround <i>WHR 11-6-12</i> <i>24 hr</i> <b>7 Days</b>	
Project Designation 100-N Area D4 - Other		Sampling Location 183-D Pump House		SAF No. RC-006					
Ice Chest No. <i>NA</i>		Field Logbook No. EL-1516-21		COA RD4MXX2F00		Method of Shipment Hand Deliver			
Shipped To Test America Richland (IH)		Offsite Property No. NA		Bill of Lading/Air Bill No. <i>NA</i>					
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Possible Asbestos</i>				Preservation	None				
Special Handling and/or Storage <i>NA SDG# MA05798</i> <i>LOT# JJK070425</i>				Type of Container	G/P				
				No. of Container(s)	1				
				Volume	5g	 J2K070425			
<i>Report: 11-8-12</i>				Asbestos-Bulk - NIOSH 9002					
SAMPLE ANALYSIS									
Sample No.	Matrix *	Sample Date	Sample Time						
J1R587 <i>MW82G</i>	OTHER	<i>11-6-12</i>	<i>1240</i>	X					
J1R588 <i>MW82H</i>	OTHER	<i>11-6-12</i>	<i>1242</i>	X					
J1R589 <i>MW82J</i>	OTHER	<i>11-6-12</i>	<i>1245</i>	X					
J1R590 <i>MW82K</i>	OTHER	<i>11-6-12</i>	<i>1253</i>	X					
J1R591 <i>MW82L</i>	OTHER	<i>11-6-12</i>	<i>1255</i>	X					
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time	NA  			
<i>James Peterson</i>		<i>11-6-12 1400</i>	<i>Bill Rodgers</i>		<i>11-6-12 1400</i>				
<i>Bill Rodgers</i>		<i>11-7-12 0740</i>	<i>A. Freier</i>		<i>11-7-12 0740</i>				
<i>A. Freier</i>		<i>11-7-12 1006</i>	<i>Luca Velazquez</i>		<i>11-7-12 1006</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				
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-006-378		Page 2 of 3	
Collector J DeRoos		Company Contact Bill Rodgers		Telephone No. 206.251.7439		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days <sup>with</sup> 11-6-12 24 Hr	
Project Designation 100-N Area D4 - Other		Sampling Location 183-D Pump House		SAF No. RC-006					
Ice Chest No. NA		Field Logbook No. EL-1516-21		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 Possible Asbestos				Preservation None					
Special Handling and/or Storage NA SDG # MA05798 LOT # J2K070425				Type of Container G/P					
				No. of Container(s) 1					
				Volume 5g					
Report: 11-872				Asbestos-Bulk - NIOSH 9002					
SAMPLE ANALYSIS				1307					
Sample No.	Matrix *	Sample Date	Sample Time						
J1R592 MW82N	OTHER	11-6-12	1257	X					
J1R593 MW82Q	OTHER	11-6-12	1301	X					
J1R594 MW82R	OTHER	11-6-12	1304	X					
J1R595 MW82T	OTHER	11-6-12	1305	X					
J1R596 MW822	OTHER	11-6-12	1315	X					
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		NA	
James DeRoos		11-6-12 1400		W.H. Rodgers		11-6-12 1400			
W.H. Rodgers		11-7-12 0740		A. Freier		11-7-12 0740			
A. Freier		11-7-12 1006		Lucas Volz		11-7-12 1006			
								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 V=Vegetation X=Other	
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-006-378		Page 3 of 3		
Collector J DeRoos		Company Contact Bill Rodgers		Telephone No. 206.251.7439		Project Coordinator KESSNER, JH		Price Code 9K		
Project Designation 100-N Area D4 - Other		Sampling Location 183-D Pump House		SAF No. RC-006		Data Turnaround 7 Days 24 Hr				
Ice Chest No. NA		Field Logbook No. EL-1516-21		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 Possible Asbestos				Preservation	None					
Special Handling and/or Storage NA SDG # MAD5798 LOT # J2K070475				Type of Container	G/P					
				No. of Container(s)	1					
				Volume	5g					
				SAMPLE ANALYSIS				Asbestos-Bulk - NIOSH 9002		
Sample No.	Matrix *	Sample Date	Sample Time							
J1R597 MW825	OTHER	11-6-12	1317	X						
J1R598 MW826	OTHER	11-6-12	1319	X						
J1R599 MW827	OTHER	11-6-12	1325	X						
J1REC0	OTHER	WTR 11-6-12								
J1R504 J1R504 MW828	OTHER	11-6-12	1330	X						
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS		
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		NA  		
James DeRoos		11-6-12 1400		Bill Rodgers		11-7-12 1400				
Bill Rodgers		11-7-12 0740		A. Freier		11-7-12 0740				
A. Freier		11-7-12 1006		Lucas Velazquez		11-7-12 1006				
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				

11-6-12

J1R597  
J1R598  
J1R599  
J1REC0  
J1R504