

**SAF-RC-134**  
**400 Area D4 Waste Characterization**  
**Sampling – Other Solid In-Process**  
**FINAL DATA PACKAGE**

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required

COMMENTS:



**SDG D1109825      SAF-RC-134**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Sample Location/Waste Site:    4701B Roof**



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# Cover

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Report Identification Number: D1109825  
 Subcontract Number: S003827A00  
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way  
 Laboratory Identification Number: DCHM *RC-134 JK 4/13/11*  
 SAF#: ~~RC-001~~ / RC-134-14  
 Sample Receipt Date: 04/08/2011

## Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
04/07/2011	J1H1X3	1109825001	NIOSH 9002	64651	Bulk
04/07/2011	J1H1X4	1109825002	NIOSH 9002	64651	Bulk
04/07/2011	J1H1X5	1109825003	NIOSH 9002	64651	Bulk

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Name: Peter P. Steen  
 Title: Chemist  
 Date: April 12, 2011



Report Identification Number: D1109825  
Subcontract Number: S003827A00  
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way  
Laboratory Identification Number: DCHM  
SAF#: RC-001 / RC-134-14  
Sample Receipt Date: 04/08/2011

**General Workorder Information:** There are ten samples in workorder 1109824 and three samples in workorder 1109825 which were analyzed for asbestos in bulk material. No problems were encountered with the receipt of this sample.

**Method Summary:** All samples were examined for homogeneity. Non-homogeneous samples were ground to ensure homogeneity. Distinct layers were analyzed separately. The samples were prepared and examined for asbestos fibers utilizing the procedures outlined in NIOSH method 9002 (4<sup>th</sup> edition). A polarizing light microscope equipped with a 10x and a 16x eyepiece was used for the analysis. The area percentage of asbestos was estimated microscopically by a visual estimation of the fibers with a length-to-width aspect ratio of 3:1 or greater. If present, asbestos identities were confirmed with the appropriate refractive index oils applying dispersion staining techniques.

**Sample Preparation:** All samples were prepared in accordance with NIOSH method 9002 (4<sup>th</sup> edition).

**Initial and Continuing Calibration Verification Analysis:** N/A

**Initial and Continuing Calibration Blank Analysis:** N/A

**Method Blank Analysis:** N/A

**Dilution(s):** N/A.

**Laboratory Control Sample and Duplicate Analysis:** One Laboratory Control Sample (LCS) was prepared and analyzed with the sample batch. The results were within the control limit of +/- one reporting range.

**Replicate Analysis:** One sample was replicated with this analysis batch.

**Flagging Codes:** None

**Nonconformance/Corrective Action Report (NC/CAR):** N/A

**Sample Calculation:** Sample results are reported by a visual estimation of the area percentage of asbestos. If necessary, a gravimetric ashing procedure may be used to remove certain non-asbestos material from the sample; a percentage calculation is used to correct for the removal of the non-asbestos material.



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## Case Narrative

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### Miscellaneous Comments:

- 1109824001: Black, tarry/fibrous roofing material.
- 1109824002: Brown/gray, textured/fibrous roofing material.
- 1109824003: Black, tarry/fibrous roofing material.
- 1109824004: Black, tarry/fibrous roofing material.
- 1109824005: Black, tarry/fibrous roofing material.
- 1109824006: Black, tarry/fibrous roofing material.
- 1109824007: Brown, textured roofing material.
- 1109824008: Black, tarry/fibrous roofing material.
- 1109824009: Black, tarry/fibrous roofing material.
- 1109824010: Brown, textured roofing material.
- 1109825001: Black, tarry/fibrous roofing material.
- 1109825002: Black, tarry/fibrous roofing material.
- 1109825003: Brown, fibrous/foamy roofing material.



# Results

Report Identification Number: D1109825  
 Subcontract Number: S003827A00  
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way  
 Laboratory Identification Number: DCHM  
 SAF#: RC-001 / RC-134-14  
 Sample Receipt Date: 04/08/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %	Amosite %	Crocidolite %
J1H1X3	1109825001	04/12/2011	10	<1 U	<1 U
J1H1X4	1109825002	04/12/2011	10	<1 U	<1 U
J1H1X5	1109825003	04/12/2011	5.0	<1 U	<1 U
Required Detection Limit (RDL)			1	1	1

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tr emolite %	Anthophyllit e %
J1H1X3	1109825001	04/12/2011	<1 U	<1 U
J1H1X4	1109825002	04/12/2011	<1 U	<1 U
J1H1X5	1109825003	04/12/2011	<1 U	<1 U
Required Detection Limit (RDL)			1	1

U - Parameter not detected above LOD  
 J - Parameter between LOD and RDL  
 \*\* - Not provided or unable to calculate  
 NA - Not Applicable



# QC Summary

Report Identification Number: D1109825  
Subcontract Number: S003827A00  
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way  
Laboratory Identification Number: DCHM  
SAF: RC-001 / RC-134-14  
Sample Receipt Date: 04/08/2011

Batch ID: 64651

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC107803	LCS	Amosite	Per sample	30%	23%
QC107803	LCSD	Amosite	Per sample	40%	23%

- MB - Method Blank
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- LD - Laboratory Duplicate
  
- NA - Not Applicable
- ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) \* 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) \* 100.0

LCS, LCSD Relative Percent Diff. = ( (|LCS - LCSD|) / ((LCS + LCSD)/2.0) ) \* 100.

MS, MSD Relative Percent Diff. = ( (|MS - MSD|) / ((MS + MSD)/2.0) ) \* 100.

LD Relative Percent Diff. = ( (|Parent - LD|) / ((Parent + LD)/2.0) ) \* 100



2011-04-08-1109825-01

WCH-EE-011

Project Destination		Company Contact		Telephone No.		Project Coordinator		Price Code		Data Turnaround	
400 Area D4 Waste Characterization Sampling - Other Solid		W H Rodgers		2062517439		KESSNER, JH		9K		7 Days	
Ice Chest No. <b>FED EX Box</b>		Field Logbook No. <b>4-2-11</b>		COA <b>RDPMXXZ100</b>		SAF No. <b>RC-134</b>				<b>3 WHE 4-7-11</b>	
Shipped To ALS Laboratories - Salt Lake City		Office Property No. <b>NA</b>		Bill of Lading/Air Bill No. <b>769 6504 3114</b>							
POSSIBLE SAMPLE HAZARDS/REMARKS											
Special Handling and/or Storage											
None											
PRESERVATION											
Name		Type of Container		No. of Container(s)		Volume		Atmos. Bulb - MDSH 9002			
GF		1		5g							
SAMPLE ANALYSIS											
Sample No.	Matrix *	Sample Date	Sample Time								
J1H1X3	OTHER SOLID	4-7-11	0953	X							
J1H1X4	OTHER SOLID	"	1002	X							
J1H1X5	OTHER SOLID	"	1007	V							
J1H1X6	OTHER SOLID	"									
J1H1X7	OTHER SOLID	4-7-11									
CHAIN OF POSSESSION											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Special Instructions		Matrix *	
[Signature]		4-7-11		W H Rodgers		4-7-11		None		SP-Subst	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				SP-Solid	
[Signature]		4-7-11		[Signature]		4-7-11				SP-Solid	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				W - Water	
[Signature]		4-7-11		[Signature]		4-7-11				O-Oil	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				DS-Organic Solids	
[Signature]		4-7-11		[Signature]		4-7-11				TC-Tar	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				L-Lead	
[Signature]		4-7-11		[Signature]		4-7-11				C-Cadmium	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				V-Volcanic	
[Signature]		4-7-11		[Signature]		4-7-11				X-Radiation	
LABORATORY SECTION											
Received By		Date/Time		Title		Disposed By		Date/Time			
[Signature]		4/8/11				[Signature]		4/8/11			
FINAL SAMPLE DISPOSITION											

REVIEWED BY DATE 4-7-11

1109825 WHE 4-7-11

