

**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 D1112658 SAF-RC-134**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Sample Location/Waste Site: 4734-D**



ALS  
Laboratory  
Group  
formerly  
DataChem

# Cover

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Report Identification Number: D1112658  
 Subcontract Number: S003827A00  
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way  
 Laboratory Identification Number: DCHM *LC-134 JW 5/12/11*  
 SAF#: ~~RC-001~~ / RD4MXX2F00  
 Sample Receipt Date: 05/06/2011



## Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
05/04/2011	J1J3R5	1112658001	NIOSH 9002	66056	Bulk
05/04/2011	J1J3R6	1112658002	NIOSH 9002	66056	Bulk

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Name: Peter P. Steen  
 Title: Chemist  
 Date: May 11, 2011

Report Identification Number: D1112658  
Subcontract Number: S003827A00  
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way  
Laboratory Identification Number: DCHM  
SAF#: RC-001 / RD4MXX2F00  
Sample Receipt Date: 05/06/2011

**General Workorder Information:** There are three samples in workorder 1112654, five samples in workorder 1112655, four samples in workorder 1112657, two samples in workorder 1112658, and two samples in workorder 1112660 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:** Two samples were 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.

**Miscellaneous Comments:**

- 1112654001: Black, tarry/fibrous roofing material.
- 1112654002: Black, tarry/fibrous roofing material.
- 1112654003: Black, tarry/fibrous roofing material.
- 1112655001: Yellowish, fibrous fiberglass insulation.
- 1112655002: Yellowish, fibrous fiberglass insulation.
- 1112655003: Yellowish, fibrous fiberglass insulation.
- 1112655004: Yellowish, fibrous fiberglass insulation.
- 1112655005: Yellowish, fibrous fiberglass insulation.
- 1112657001: White/yellow, fibrous insulation.
- 1112657002: White/yellow, fibrous insulation.
- 1112657003: White/yellow, fibrous insulation.
- 1112657004: Brown, compacted material.
- 1112658001: Brown, compacted material.
- 1112658002: Brown, compacted material.
- 1112660001: Black, compacted material.
- 1112660002: Black, compacted material.



# Results

Report Identification Number: D1112658  
 Subcontract Number: S003827A00  
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way  
 Laboratory Identification Number: DCHM  
 SAF#: RC-001 / RD4MXX2F00  
 Sample Receipt Date: 05/06/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J1J3R5	1112658001	05/11/2011	<1	U	<1	U	<1	U
J1J3R6	1112658002	05/11/2011	<1	U	<1	U	<1	U
Required Detection Limit (RDL)			1		1		1	

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %		Anthophyllite %	
J1J3R5	1112658001	05/11/2011	<1	U	<1	U
J1J3R6	1112658002	05/11/2011	<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: D1112658  
 Subcontract Number: S003827A00  
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way  
 Laboratory Identification Number: DCHM  
 SAF: RC-001 / RD4MXX2F00  
 Sample Receipt Date: 05/06/2011

Batch ID: 66056

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
QC107943	LCS	Amosite	%	ND	-	ND	-	-
QC107943	LCSD	Amosite	%	ND	-	ND	-	-
QC107943	LCS	Chrysotile	%	3	-	10	-	-
QC107943	LCSD	Chrysotile	%	5	-	10	-	-

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

$$\text{LCS, LCSD Percent Rec.} = (\text{Result} / \text{Target}) * 100.0$$

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

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

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

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



2011-05-06-1112658-01

Collector		Project Designation		Project Coordinator		Price Code		Page 1 of 1	
Washu 1112658		400 Area DA Waste Characterization Sampling - Other, Solid		KESSENER, JH		9K		RC-134-28	
Company Contact W H Rodgers		Sampling Location 4734-D		SAF No. RC-134		Method of Shipment FEDEX		Data Turnaround 7 Days 3 WHTK-44	
Telephone No. 2062517439		Field Logbook No. EL-1646-03		COA RD-MXX-2F00		Bill of Lading/Air Bill No. 794726303639			
Shipped To ALS Laboratories - Salt Lake City		Offsite Property No. NA							
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos									
Special Handling and/or Storage None									
Sample No.	Matrix *	Sample Date	Sample Time	Name	Preservation	Type of Container	No. of Container(s)	Volume	Aberrant Bulk - MUSH 9002
J1J3R5	OTHER SOLID	5-4-11	0840	X					
J1J3R6	OTHER SOLID	"	0841	X					
SAMPLE ANALYSIS									
CHAIN OF POSSESSION		Signature/Print Names		Date/Time		Date/Time		Date/Time	
Relinquished By/Removed From W H Rodgers		Received By/Stored In W H Rodgers		5-4-11		5-4-11		7:30	
Relinquished By/Removed From W H Rodgers		Received By/Stored In A. Freier		5-4-11		5-4-11		1545	
Relinquished By/Removed From A. Freier		Received By/Stored In Fed Ex		5-5-11		5-5-11		0920	
Relinquished By/Removed From Fed Ex		Received By/Stored In X		5-5-11		5-5-11		1000	
Relinquished By/Removed From X		Received By/Stored In X		5-5-11		5-5-11		1000	
Relinquished By/Removed From X		Received By/Stored In X		5-5-11		5-5-11		1000	
LABORATORY SECTION		Received By		Date/Time		Date/Time		Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method		Date/Time		Date/Time		Date/Time	
		X		5/6/11		1000		5/6/11 1000	

REVIEWED BY  
CMB  
DATE  
5/5/11