

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 D1112657 SAF-RC-134

Rad only

Chem only

Rad & Chem

Complete

Partial

Sample Location/Waste Site: 4706





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Page 1 of 6



Report Identification Number: D1112657
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM *PC 134 JD 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	J1H1W3	1112657001	NIOSH 9002	66056	Bulk
05/04/2011	J1H1W4	1112657002	NIOSH 9002	66056	Bulk
05/04/2011	J1H1W5	1112657003	NIOSH 9002	66056	Bulk
05/04/2011	J1H1W6	1112657004	NIOSH 9002	66056	Bulk

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



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Case Narrative

Page 2 of 6

Report Identification Number: D1112657
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 (4th 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 (4th 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: D1112657
 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 %	
			<1	U	<1	U	<1	U
J1H1W3	1112657001	05/11/2011	<1	U	<1	U	<1	U
J1H1W4	1112657002	05/11/2011	<1	U	<1	U	<1	U
J1H1W5	1112657003	05/11/2011	<1	U	<1	U	<1	U
J1H1W6	1112657004	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 %	
			<1	U	<1	U
J1H1W3	1112657001	05/11/2011	<1	U	<1	U
J1H1W4	1112657002	05/11/2011	<1	U	<1	U
J1H1W5	1112657003	05/11/2011	<1	U	<1	U
J1H1W6	1112657004	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

Report Identification Number: D1112657
 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

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

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

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

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

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



2011-05-06-1112667-01

Washi		Page 1 of 1	
Collector Parrish	1112657	RC-134-12	Price Code 9K
Project Designation 400 Area DM Waste Characterization Sampling - Other Solid		Protect Coordinator KESSNER, JH	Data Turnaround 7 Days
Ice Chest No.	NA	SAF No. RC-134	3 with 5-4-11
Shipped To ALS Laboratories - Salt Lake City		Method of Shipment FEDEX	112657
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos		Bill of Lading/Air Bill No.	79472630 3639
SAMPLE ANALYSIS			
Sample No.	Matrix *	Sample Date	Sample Time
JH1W3	OTHER SOLID	5-4-11	0820 X
JH1W4	OTHER SOLID		0822 X
JH1W5	OTHER SOLID		0825 X
JH1W6	OTHER SOLID		0827 X
JH1W7	OTHER SOLID		
Special Handling and/or Storage None		Preservation None	
		Type of Container GFP	
		No. of Container(s) 1	
		Volume 5g	
		Adhesive Bulk - NIOSH 902	
CHAIN OF POSSESSION			
Relinquished By/Received From W.H. Rodgers	Date/Time 5-4-11	Signature/Print Names W.H. Rodgers	Date/Time 5-4-11
Relinquished By/Received From W.H. Rodgers	Date/Time 5-4-11	Signature/Print Names A. Freier	Date/Time 5-4-11
Relinquished By/Received From A. Freier	Date/Time 5-5-11	Signature/Print Names Fed Ex	Date/Time 5-4-11
Relinquished By/Received From Fed Ex	Date/Time 5-5-11	Signature/Print Names J. W. W. W. W.	Date/Time 5-4-11
Relinquished By/Received From J.W.W.W.	Date/Time 5-5-11	Signature/Print Names	Date/Time
Relinquished By/Received From	Date/Time	Signature/Print Names	Date/Time
Relinquished By/Received From	Date/Time	Signature/Print Names	Date/Time
LABORATORY SECTION	Received By J. W. W. W.	Title	
FINAL SAMPLE DISPOSITION	Disposed Method	Disposed By 5/6/11 1000	

REVIEWED BY
CMB
DATE
5/5/11