

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 D1109619 SAF-RC-134

Rad only

Chem only

Rad & Chem

Complete

Partial

Sample Location/Waste Site: 4719





ALS
Laboratory
Group
formerly
DataChem

Cover

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Report Identification Number: D1109619
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM RC 134-6 4/15/11
 SAF#: ~~RC-001~~ / RC-134-6
 Sample Receipt Date: 04/06/2011

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
04/04/2011	J1H144	1109619001	NIOSH 9002	64750	Bulk
04/04/2011	J1H145	1109619002	NIOSH 9002	64750	Bulk
04/04/2011	J1H146	1109619003	NIOSH 9002	64750	Bulk
04/04/2011	J1H147	1109619004	NIOSH 9002	64750	Bulk
04/04/2011	J1H148	1109619005	NIOSH 9002	64750	Bulk

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Name: Peter P. Steen
 Title: Chemist
 Date: April 14, 2011

Report Identification Number: D1109619
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-134-6
Sample Receipt Date: 04/06/2011

General Workorder Information: There are five samples in workorder 1109619, ten samples in workorder 1109620, and fourteen samples in workorder 1109621 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: Two Laboratory Control Samples (LCS) were prepared and analyzed with the sample batch. The results were within the control limit of +/- one reporting range.

Replicate Analysis: Three 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:

- 1109619001: Brown, granular material.
- 1109619002: Brown, granular material.
- 1109619003: Brown, granular material.
- 1109619004: Brown, granular material.
- 1109619005: Brown, granular material.
- 1109620001: Yellowish, fibrous fiberglass insulation.
- 1109620002: Yellowish, fibrous fiberglass insulation.
- 1109620003: Yellowish, fibrous fiberglass insulation.
- 1109620004: Yellowish, fibrous fiberglass insulation.
- 1109620005: Yellowish, fibrous fiberglass insulation.
- 1109620006: Whitish, fibrous fiberglass insulation.
- 1109620007: Brown, granular material.
- 1109620008: Brown, granular material.
- 1109620009: Brown, granular material.
- 1109620010: Brown, granular material.
- 1109621001: Yellowish, fibrous fiberglass insulation.
- 1109621002: Yellowish, fibrous fiberglass insulation.
- 1109621003: White, powdery drywall.
- 1109621004: White, powdery drywall.
- 1109621005: White, powdery drywall.
- 1109621006: Yellowish, fibrous fiberglass insulation.
- 1109621007: Tan, rubbery caulk.
- 1109621008: Tan, rubbery caulk.
- 1109621009: Grayish, fibrous fiberglass wrap material.
- 1109621010: Gray, rubbery caulk.
- 1109621011: Gray, rubbery caulk.
- 1109621012: Grayish, fibrous fiberglass wrap material.
- 1109621013: Brown, rubbery caulk.
- 1109621014: Gray, rubbery caulk.



Results

Report Identification Number: D1109619
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF#: RC-001 / RC-134-6
 Sample Receipt Date: 04/06/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J1H144	1109619001	04/14/2011	<1	U	<1	U	<1	U
J1H145	1109619002	04/14/2011	<1	U	<1	U	<1	U
J1H146	1109619003	04/14/2011	<1	U	<1	U	<1	U
J1H147	1109619004	04/14/2011	<1	U	<1	U	<1	U
J1H148	1109619005	04/14/2011	<1	U	<1	U	<1	U
Required Detection Limit (RDL)			1		1		1	

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %		Anthophyllite %	
J1H144	1109619001	04/14/2011	<1	U	<1	U
J1H145	1109619002	04/14/2011	<1	U	<1	U
J1H146	1109619003	04/14/2011	<1	U	<1	U
J1H147	1109619004	04/14/2011	<1	U	<1	U
J1H148	1109619005	04/14/2011	<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: D1109619
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF: RC-001 / RC-134-6
 Sample Receipt Date: 04/06/2011

Batch ID: 64750

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC107804	LCS	Amosite	%	50	65
QC107804	LCSD	Amosite	%	60	65
QC107804	LCS	Chrysotile	%	5	10
QC107804	LCSD	Chrysotile	%	10	10
QC107861	LCS	Amosite	%	1	4
QC107861	LCSD	Amosite	%	3	4
QC107861	LCS	Chrysotile	%	1	3
QC107861	LCSD	Chrysotile	%	3	3

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

