

SAF-RC-040
300 Area D&D Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Barry Lawrence L1-07

KW 10/7/08
INITIAL/DATE

COMMENTS:

SDG D8273001

SAF-RC-040

Rad only

Chem only

Rad & Chem

Complete

Partial

Sample Location/Waste Site: MO-741

RECEIVED
OCT 20 2008
EDMC



Report Identification Number: D8273001
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasken / Garrett Knutson / Brian Fauver
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-040
Sample Receipt Date: 09/26/2008

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
09/24/2008	J17JF2	8273001001	NIOSH 9002	20963	Bulk

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Name: Peter P. Steen
Title: Chemist
Date: October 07, 2008



Case Narrative

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Report Identification Number: D8273001
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker/ Garrett Knutson /
Brian Fauver
Laboratory Identification Number: DCHM
SAF#: RC-001 /
Sample Receipt Date: 09/26/2008

General Workorder Information: There is one sample in workorder 8273001 which was analyzed for asbestos in bulk material. No problems were encountered with the receipt of these samples.

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: 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.



Miscellaneous Comments:

8273001001: Gray, rubbery cove base with white mastic.



Results

Report Identification Number: D8273001
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 Laboratory Identification Number: DCHM
 SAF#: RC-001 /
 Sample Receipt Date: 09/26/2008

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %	Amosite %	Crocidolite %
J17JF2	8273001001	10/06/2008	<1 U	<1 U	<1 U
Limit of Detection (LOD)			NA	NA	NA
Required Detection Limit (RDL)			1	1	1

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %	Anthophyllite %
J17JF2	8273001001	10/06/2008	<1 U	<1 U
Limit of Detection (LOD)			NA	NA
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: D8273001
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker/ Garrett Knutson / Brian Fauver
Laboratory Identification Number: DCHM
SAF: RC-001 /
Sample Receipt Date: 09/26/2008

Batch ID: 20963

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
QC107026	LCS	Amosite	%	ND	NA	ND	NA	NA
QC107026	LCSD	Amosite	%	ND	NA	ND	NA	NA
QC107026	LCS	Chrysotile	%	3	NA	7	NA	NA
QC107026	LCS	Chrysotile	%	5	NA	7	NA	NA

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

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

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



Washington Closure H U		8273001	OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-355	Page 1 of 2
Collector <i>Marbach Jim</i>	Company Contact Joan Kessner	Telephone No. 375-4688	Project Coordinator KISSNER, JH		Price Code	9K	Data Turnaround	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location MO-741	SAF No. RC-040		7 Days			
Ice Chest No. <i>NA</i>	Field Logbook No. EL-1518-10	COA see below	Method of Shipment Fed Ex					
Shipped To DataChem Laboratories - Salt Lake City		Offsite Property No. <i>A080152</i>	Bill of Lading/Air Bill No. See OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS								
Special Handling and/or Storage	Preservation	None	None					
	Type of Container	GP	GP					
	No. of Container(s)	1	1					
	Volume	5g	5g					
SAMPLE ANALYSIS		Asbestos-BULK-PPA	ICF GEA Shipping Screen					
Sample No.	Matrix *	Sample Date	Sample Time					
J17JF2	OTHER SOLID	9-24-08	0830	X	X	2035		
J17JF3	OTHER SOLID							
J17JF4	OTHER SOLID							
J17JF5	OTHER SOLID							
J17JF6	OTHER SOLID							
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS			Matrix *	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00			5=Soil	
<i>Jim Marbach</i>	<i>9/24/08 0835</i>	<i>Joan Kessner</i>	<i>9-24-08 0835</i>				5F=Solvent	
<i>Barry Laurens</i>	<i>9-24-08 0900</i>	<i>Joan Kessner</i>	<i>9-24-08 0900</i>				5S=Sludge	
<i>K. E. Larson</i>	<i>9-25-08 1040</i>	<i>J. E. Bernhard</i>	<i>9-25-08 1040</i>				W=Water	
<i>J. E. Bernhard</i>	<i>9-25-08 1100</i>	<i>FED EX</i>					G=Oil	
<i>Fed Ex</i>	<i>9-25-08</i>	<i>Joan Kessner</i>	<i>9-25-08 1124</i>				A=Air	
<i>Joan Kessner</i>		<i>Joan Kessner</i>	<i>9-25-08 1124</i>				75=Drum Spill	
							EL=Paint Liquid	
							T=Trace	
							W=Wipe	
							L=Liquid	
							V=Vegetation	
							S=Other	
LABORATORY SECTION	Received By	Title				Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				Date/Time		

WCH-EE-011



Washington Closure Hanford

9/24/2008 10:57:07AM

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Radiological Counting Facility

Analysis Report for RCF20735
J17JF2 SAF:RC-040 300PS/MO-741 OTHER SOLID

GAMMA SPECTRUM ANALYSIS

Sample Identification : RCF20735
 Sample Description : J17JF2 SAF:RC-040 300PS/MO-741 OTHER SOLID
 Sample Type : Non Standard Geo
 Unit :
 Sample Point :
 Sample Size : 1.000E+00 units
 Facility : Default
 Sample Taken On : 9/24/2008 8:30:00AM
 Acquisition Started : 9/24/2008 9:56:55AM
 Procedure : Non Standard Geometry
 Operator : KSE
 Detector Name : PGTWHITE
 Geometry : Non Standard Geo
 Live Time : 3600.0 seconds
 Real Time : 3600.7 seconds
 Dead Time : 0.02 %
 Peak Locate Threshold : 3.00
 Peak Locate Range (in channels) : 80 - 4096
 Peak Area Range (in channels) : 80 - 4096
 Identification Energy Tolerance : 1.300 keV
 Energy Calibration Used Done On : 1/31/2008
 Efficiency Calibration Used Done On : 2/4/2008
 Efficiency Calibration Description : Non-Standard Geo (1234-95-2) 2/4/2008

**Qualitative Only
Non-Standard Geometry**
 Calibrations for determining sample activity are geometry-specific. This sample does not conform to one of the currently calibrated geometries. Reported activities may differ from the actual sample activity for this reason.

Sample Number : 22764

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/units)	Wt mean Activity Uncertainty	Comments
PB-212	0.709	8.17E+01	1.23E+01	
RA-226d	0.733	9.82E+01	1.41E+01	
TH-232d	0.591	3.17E+01	1.22E+01	



2008-09-29-8273001-03

Project Shipment Specific Client/Shipper's Notification of Sample Radioactivity

Please complete this form and include it with each shipment.

Sample Number/RCF Number: RCF20715 (see attached COC)
 Shipment Date: _____

All samples shipped in this cooler have been screened for radioactivity. All samples have activity less than:

Total Activity	Gross Alpha Activity	Gross Beta/Gamma Activity
<1500 pCi/g	<500 pCi/sample	<1000 pCi/Sample

I certify that the samples shipped to DataChem are below the criteria above.

WCH Signature: Chant Kozzmer Date: 9/24/08

Any samples in the shipment which have activity above the levels specified above require DataChem approval prior to shipment in accordance with the DataChem SOP WA-DC-002.

DataChem Nuclear Material License UT 1800237

This release has been authorized by Robert P. Di Rienzo, DataChem Radiation Safety Officer on December 6, 2007.