

**SAF-RC-120**  
**618-1 Other Solid**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Rick Kerkow	L6-06	<u>KW 2/10/09</u> Initials/Date
Kathy Wendt	H4-21	<u>KW 2/10/09</u> Initials/Date

**COMMENTS:**

**SDG D9030047**

**SAF-RC-120**

Rad only

Chem only

Rad & Chem

Complete

Partial

**WASTE SITE: 618-13 Anomalous Materials**

**RECEIVED**  
FEB 18 2009  
**EDMC**



Report Identification Number: D9030047  
Subcontract Number: S003827A00  
Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker/ Garrett Knutson / Brian Fauver  
Laboratory Identification Number: DCHM <sup>JD</sup> 2C-120 2/19/09  
SAF#: ~~RC-001~~ / R168132600  
Sample Receipt Date: 01/30/2009

**Sample Information**

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
01/28/2009	J187P0	9030047001	NIOSH 9002	24531	Bulk

I certify that this electronic image and all hardcopies produced from this image accurately represent the data and are in compliance with the contract specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Name: Peter P. Steen  
Title: Chemist  
Date: February 06, 2009



## Case Narrative

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Subcontract Number: S003827A00  
Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker/ Garrett Knutson / Brian Fauver  
Laboratory Identification Number: DCHM  
SAF#: RC-001 / R168132600  
Sample Receipt Date: 01/30/2009

**General Workorder Information:** There is one sample in workorder 9030047 which was 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:** None.

**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.



## Case Narrative

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### Miscellaneous Comments:

9030047001: White/brown, powdery/granular insulation material.



# Results

Report Identification Number: D9030047  
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 Laboratory Identification Number: DCHM  
 SAF#: RC-001 / R168132600  
 Sample Receipt Date: 01/30/2009

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %	Amosite %	Crocidolite %
J187P0	9030047001	02/06/2009	<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/Tr emolite %	Anthophyllit e %
J187P0	9030047001	02/06/2009	<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: D9030047  
Subcontract Number: S003827A00  
Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker/ Garrett Knutson / Brian Fauver  
Laboratory Identification Number: DCHM  
SAF: RC-001 / R168132600  
Sample Receipt Date: 01/30/2009

Batch ID: 24531

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
QC107365	Bulk	Amosite	%	ND	ND	ND	Pass	Pass
QC107365	Bulk	Tremolite	%	3-<5	3-<5	2.4	Pass	Pass

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

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

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

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

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

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



COC

2009-01-30-9030047-01



Washington Closure Hanford		9030047		USTODY/SAMPLE ANALYSIS REQUEST				RC-120-024	Page 1 of 1
Collector P. Pearson	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator WEISS, RL		Price Code <i>9L</i> <i>1-26-09</i> Data Turnaround <i>21 Days</i>				
Project Designation 618-1 Other Solid	Sampling Location 618-13 Anomalous materials		SAF No. RC-120		<i>9B</i>				
Ice Chest No. <i>009-001</i>	Field Logbook No. EL-1395-13	COA R168132600	Method of Shipment Fed Ex		<i>9030047</i>				
Shipped To DataChem Laboratories - Salt Lake City		Offsite Property No. <i>NA JFF 1-29-09</i> <i>A090122</i>	Bill of Lading/Air Bill No. <i>NA JEE 1-29-09</i> <i>SEE OSPC</i>						
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Potential radiological contamination.</i>			Preservation None						
Special Handling and/or Storage <i>None</i>			Type of Container Whirl Pack						
			No. of Container(s) 1						
			Volume 5g						
SAMPLE ANALYSIS			Asbestos-BULK/EPA						
Sample No.	Matrix *	Sample Date	Sample Time						
J187P0	OTHER SOLID	1-28-09	1040	X					
CHAIN OF POSSESSION			Sign/Print Names		SPECIAL INSTRUCTIONS			Matrix *	
Relinquished By/Removed From <i>PAUL PENNACCA</i>	Date/Time <i>1-28-09 1300</i>	Received By/Stored In <i>RB KERKIN/RB Kunk</i>	Date/Time <i>1-28-09</i>	<p><b>NOTE: SAMPLES WERE COLLECTED FROM OUTSIDE OF THE RADIOLOGICALLY CONTROLLED AREAS. RBK 1-28-09</b></p> <p>Sampler unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.</p>			<ul style="list-style-type: none"> <li>Solid</li> <li>Semi-solid</li> <li>Solid</li> <li>W - Water</li> <li>G - Oil</li> <li>A - Air</li> <li>D - Dust/Sols</li> <li>D - Liquid</li> <li>T - Toxic</li> <li>W - Waste</li> <li>L - Liquid</li> <li>V - Volatile</li> <li>Other</li> </ul>		
Relinquished By/Removed From <i>RB KERKIN/RB Kunk</i>	Date/Time <i>1-28-09 1415</i>	Received By/Stored In <i>REF JC (1060) RBK</i>	Date/Time <i>1-28-09</i>						
Relinquished By/Removed From <i>Ref JC 1060 J.E. Bernh</i>	Date/Time <i>1-29-09</i>	Received By/Stored In <i>J.E. Bernh</i>	Date/Time <i>1-29-09</i>						
Relinquished By/Removed From <i>J.E. Bernh WCH</i>	Date/Time <i>1-29-09</i>	Received By/Stored In <i>FED EX</i>	Date/Time						
Relinquished By/Removed From <i>WCH</i>	Date/Time	Received By/Stored In <i>Allyette Bernh</i>	Date/Time <i>3/10/10</i>						
Relinquished By/Removed From <i>RBK JC</i>	Date/Time <i>3/10/10</i>	Received By/Stored In	Date/Time						
LABORATORY SECTION	Received By <i>Michael Zellner</i>	Title		Date/Time <i>3/10/10</i>					
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By		Date/Time					

WCH-EE-011