

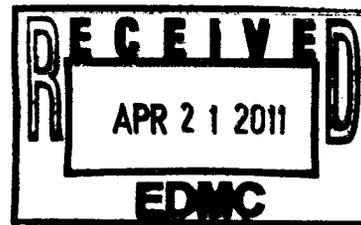
SAF-RC-075
100-D/DR Burial Grounds & Remaining
Sites – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt

H4-21

KW 4/14/11
INITIAL/DATE



COMMENTS:

SDG D1108843

SAF RC-075

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site: 600-30 Focused Samples Verification



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Cover

Page 1 of 6

Report Identification Number: D1108843
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM RC-075 JIC 4/6/11
 SAF#: ~~RC-001~~ / RC-075-229
 Sample Receipt Date: 03/29/2011



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
03/25/2011	J1FK35	1108843001	NIOSH 9002	64343	Soil
03/25/2011	J1FK36	1108843002	NIOSH 9002	64343	Soil

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Name: Peter P. Steen
 Title: Chemist
 Date: April 06, 2011



Report Identification Number: D1108843
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-075-229
Sample Receipt Date: 03/29/2011

General Workorder Information: There are thirteen samples in workorder 1108841 and two samples in workorder 1108843 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.



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Case Narrative

Page 3 of 6

Miscellaneous Comments:

- 1108841001: Brown, granular soil.
- 1108841002: Brown, granular soil.
- 1108841003: Brown, granular soil.
- 1108841004: Brown, granular soil.
- 1108841005: Brown, granular soil.
- 1108841006: Brown, granular soil.
- 1108841007: Brown, granular soil.
- 1108841008: Brown, granular soil.
- 1108841009: Brown, granular soil.
- 1108841010: Brown, granular soil.
- 1108841011: Brown, granular soil.
- 1108841012: Brown, granular soil.
- 1108841013: Brown, granular soil.
- 1108843001: Brown, granular soil.
- 1108843002: Brown, granular soil.



Results

Report Identification Number: D1108843
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF#: RC-001 / RC-075-229
 Sample Receipt Date: 03/29/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J1FK35	1108843001	04/05/2011	<1	U	<1	U	<1	U
J1FK36	1108843002	04/05/2011	<1	U	<1	U	<1	U
Required Detection Limit (RDL)			1		1		1	

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %		Anthophyllite %	
J1FK35	1108843001	04/05/2011	<1	U	<1	U
J1FK36	1108843002	04/05/2011	<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: D1108843
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF: RC-001 / RC-075-229
 Sample Receipt Date: 03/29/2011

Batch ID: 64343

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC107774	LCS	Amosite	%	ND	ND
QC107774	LCSD	Amosite	%	ND	ND
QC107774	LCS	Chrysotile	%	10	30
QC107774	LCSD	Chrysotile	%	20	30

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

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

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

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

