

SAF-RC-211
100-IU-2 & 100-IU-6 Miscellaneous
Restoration Sites Near 100-F –
Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required

COMMENTS:

SDG D1107433 SAF-RC-211

Rad only

Chem only

Rad & Chem

Complete

Partial

Sample Location: 100-IU-2 600-328





ALS
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DataChem

Cover



Report Identification Number: D1107433
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM 2C-211 JB3/24/11
 SAF#: ~~RC-001~~ / RC-211-012
 Sample Receipt Date: 03/15/2011

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
03/10/2011	J1FJM1	1107433001	NIOSH 9002	63838	Bulk

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Name: Peter P. Steen
 Title: Chemist
 Date: March 23, 2011



Report Identification Number: D1107433
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-211-012
Sample Receipt Date: 03/15/2011

General Workorder Information: There is one sample in workorder 1107433 and one sample in workorder 1107434 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: 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.



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Case Narrative

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Miscellaneous Comments:

1107433001: Brown, granular soil.

1107434001: Brown, granular soil.



Results

Report Identification Number: D1107433
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF#: RC-001 / RC-211-012
 Sample Receipt Date: 03/15/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J1FJM1	1107433001	03/23/2011	<1	U	<1	U	<1	U
Required Detection Limit (RDL)			1		1		1	

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tr emolite %		Anthophyllit e %	
J1FJM1	1107433001	03/23/2011	<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: D1107433
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF: RC-001 / RC-211-012
 Sample Receipt Date: 03/15/2011

Batch ID: 63838

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC 107749	LCS	Amosite	%	60	70
QC 107749	LCSD	Amosite	%	70	70
QC 107749	LCS	Chrysotile	%	ND	ND
QC 107749	LCSD	Chrystile	%	ND	ND

- 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

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

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

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

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

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



2011-03-16-1107433-01



U-1107433

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-211-012	Page 1 of 1
Collector OJEDA, AJ	Company Contact Jan Russell	Telephone No. (309) 540-6502		Project Coordinator KESSNER, JH	Price Code 8C
Project Destination 100-IL-2 & 100-IL-6 Miscellaneous Restoration Site Near 1	Sampling Location 100 IL 2 600-328	Field Logbook No. EL-1651	COA 01022DY000	Method of Shipment Hand Delivered	Data Turnaround 7 Days
Ice Chest No. 3-14-11	ERL-99-11-16	Offsite Property No. NA	Bill of Lading/Air Bill No. NA-9F-8-14-11	7945	0360 5270
Shipped To: 43 3-14-11					
POSSIBLE SAMPLE HAZARDS/REMARKS					
None					
Special Handling and/or Storage					
None					

Sample No.	Matrix *	Sample Date	Sample Time	Analysis
J1EJ11	SOIL	3-10-11	1310	X

CHAIN OF POSSESSION		Signature Names	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
ATV/veha	3/11/11	Jan Russell	3/11/11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Jan Russell	3/11/11	A. Feier	3-10-11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
A. Feier	3-14-11	Feier E.	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
None		Michael Staud	3/11/11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
None			

* IH Method

AS 3-10-11

REVIEWED
BY
DATE
3-14-11

Date/Time: 3/11/11

Disposed By: