

SAF-RC-074
100-D/DR Burial Grounds & Remaining
Sites – Soil Quick Turn
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt

H4-21

KW 12/18/08
INITIAL/DATE

COMMENTS:

SDG D8447006

SAF RC-074

Rad only

X Chem only

Rad & Chem

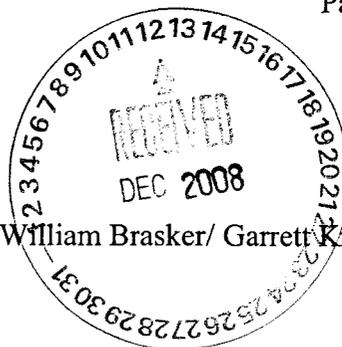
X Complete

Partial

Waste Sites: 100-D-15 north, potholes

RECEIVED
JAN 16 2009

EDMC



Report Identification Number: D8337006
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker/ Garrett Knutson / Brian Fauver
Laboratory Identification Number: DCHM
SAF#: RC-061 / R00D158100
Sample Receipt Date: 11/26/2008

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
11/24/2008	J17Y94	8337006001	NIOSH 9002	23048	Soil
11/24/2008	J17Y95	8337006002	NIOSH 9002	23048	Soil

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Name: Peter P. Steen
Title: Chemist
Date: December 12, 2008



Case Narrative

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Subcontract Number: S003827A00
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Laboratory Identification Number: DCHM
SAF#: RC-0~~3~~⁴ / R00D158100
Sample Receipt Date: 11/26/2008

General Workorder Information: There are two samples in workorder 8337006 which were 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:

8337006001: Gray, granular soil.
8337006002: Brown, granular soil.



Results

Report Identification Number: D8337006
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 Laboratory Identification Number: DCHM
 SAF#: RC-061 / R00D158100
 Sample Receipt Date: 11/26/2008

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J17Y94	8337006001	12/11/2008	<1	U	<1	U	<1	U
J17Y95	8337006002	12/11/2008	<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 %	
J17Y94	8337006001	12/11/2008	<1	U	<1	U
J17Y95	8337006002	12/11/2008	<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: D8337006
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker/ Garrett Knutson / Brian Fauver
 Laboratory Identification Number: DCHM
 SAF: RC-001 / R00D158100
 Sample Receipt Date: 11/26/2008

Batch ID: 23048

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
QC107359	LCS	Amosite	%	ND	NA	ND		
QC107359	LCSD	Amosite	%	ND	NA	ND		
QC107359	LCS	Chrysotile	%	ND	NA	ND		
QC107359	LCSD	Chrysotile	%	ND	NA	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

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



COC

2008-12-02-8337006-01

8337006

Washington Closure Han u		8337006		OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-074-112		Page 1 of 1	
Collector SEC D.Rios		Company Contact UShea		Telephone No. 521-6014		Project Coordinator KESSNER, JH		Price Code	
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Quick Tu		Sampling Location 100-D-15 North, pot holes		SAF No. RC-074		Data Turnaround 15 days			
Ice Chest No. WCH-DS-001-4		Field Logbook No. EL-1607-5		COA R0005 8100		Method of Shipment Fed EX			
Shipped To Data Chem Laboratories Salt Lake		Offsite Property No. see OPRC 11/25/08		A 090006		Bill of Lading/Air Bill No. see OPRC			
POSSIBLE SAMPLE HAZARDS/REMARKS									
Special Handling and/or Storage									
SAMPLE ANALYSIS									
Sample No.	Matrix *	Sample Date	Sample Time						
J17Y94	SOIL	11/24/08	0939	✓					
J17Y95	SOIL	↓	0950	✓					
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By/Removed From Dante Rios 11-24-08		Date/Time 1014		Received By/Stored In Dwisha DUSTHEA 11/24/08		Date/Time 1014		Sampler unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.	
Relinquished By/Removed From Dwisha DUSTHEA		Date/Time 11/24/08 800		Received By/Stored In Fridge 3A		Date/Time 11/24/08 1800			
Relinquished By/Removed From Fridge 3A / Ulyse Gonzalez		Date/Time 11/25/08 0830		Received By/Stored In Ulyse Gonzalez		Date/Time 11/25/08 0830			
Relinquished By/Removed From Ulyse Gonzalez		Date/Time 11/25/08 0920		Received By/Stored In FED EX		Date/Time			
Relinquished By/Removed From Ulyse Gonzalez		Date/Time 11/25/08		Received By/Stored In Ulyse Gonzalez		Date/Time			
Relinquished By/Removed From Ulyse Gonzalez		Date/Time		Received By/Stored In Ulyse Gonzalez		Date/Time			
LABORATORY SECTION		Received By Ulyse Gonzalez				Title		Date/Time 11/25/08	
FINAL SAMPLE DISPOSITION		Disposal Method				Disposed By		Date/Time	

WCH-EE-011