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SAF-RC-208
Remedial Action of the 100-C-7 & 100-C-7:1 Waste Sites – Other
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

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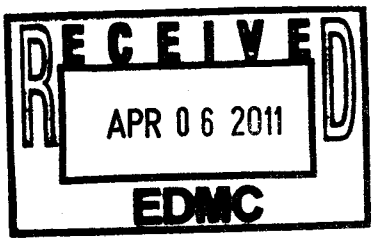


COMMENTS:

SDG D1107605 SAF-RC-208

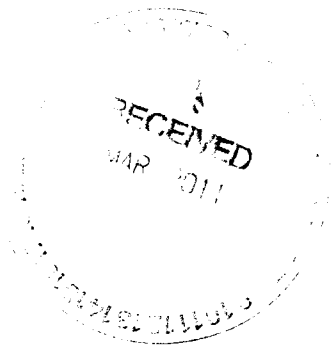
Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: PACM stockpiles

ALS Laboratory Group formerly DataChem

Cover



Report Identification Number: D1107605
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM RC-208 JKO 3/29/11
SAF#: ~~RC-001~~ / RC-208-001
Sample Receipt Date: 03/17/2011

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
03/15/2011	J1FK04	1107605001	NIOSH 9002	64009	Bulk
03/15/2011	J1FK05	1107605002	NIOSH 9002	64009	Bulk
03/15/2011	J1FK06	1107605003	NIOSH 9002	64009	Bulk
03/15/2011	J1FK07	1107605004	NIOSH 9002	64009	Bulk
03/15/2011	J1FK08	1107605005	NIOSH 9002	64009	Bulk

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Name: Peter P. Steen
Title: Chemist
Date: March 28, 2011

Report Identification Number: D1107605
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-208-001
Sample Receipt Date: 03/17/2011

General Workorder Information: There five samples in workorder 1107605 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.

Miscellaneous Comments:

1107605001: Whitish, fibrous/powdery pipe insulation.
1107605002: Grayish, fibrous/powdery pipe insulation.
1107605003: Grayish, fibrous/powdery pipe insulation.
1107605004: Grayish, fibrous/powdery pipe insulation.
1107605005: Whitish, fibrous/powdery pipe insulation.

Report Identification Number: D1107605
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-208-001
Sample Receipt Date: 03/17/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J1FK04	1107605001	03/28/2011	20		<1	U	3.0	
J1FK05	1107605002	03/28/2011	10		10		<1	U
J1FK06	1107605003	03/28/2011	3.0		10		<1	U
J1FK07	1107605004	03/28/2011	10		10		<1	U
J1FK08	1107605005	03/28/2011	10		10		<1	U
Required Detection Limit (RDL)			1		1		1	

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %		Anthophyllite %	
J1FK04	1107605001	03/28/2011	<1	U	<1	U
J1FK05	1107605002	03/28/2011	<1	U	<1	U
J1FK06	1107605003	03/28/2011	<1	U	<1	U
J1FK07	1107605004	03/28/2011	<1	U	<1	U
J1FK08	1107605005	03/28/2011	<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

Report Identification Number: D1107605
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF: RC-001 / RC-208-001
Sample Receipt Date: 03/17/2011

Batch ID: 64009

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC107750	LCS	Amosite	%	ND	ND
QC107750	LCSD	Amosite	%	ND	ND
QC107750	LCS	Chrysotile	%	3	7
QC107750	LCSD	Chrysotile	%	5	7

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

2011-03-17--01

1107605

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

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Collector: C. Martinez	Company Contact: J. Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Project Designation: Remedial Action of the 100-C-7 & 100-C-7:1 Waste Sites -	Sampling Location: PACM stockpiles		SAF No.: RC-208
Ice Chest No.: FED EX BOX	Field Logbook No.: EL-1655	COA: R100C72600	Method of Shipment: Fed Ex
Shipped To: ALS Laboratories - Salt Lake City	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: See QSRS 7968 7597 0864
POSSIBLE SAMPLE HAZARDS/REMARKS: *Potential asbestos*			
Special Handling and/or Storage: *None*			

Price Code: 9L | Data Turnaround: 7 Days

SAMPLE ANALYSIS

Sample No.	Matrix*	Sample Date	Sample Time	Preservation: None	Type of Container: G/P	No. of Container(s): 1	Volume: 5g	Asbestos Bulk - NIOSH 9002
J1FK04	OTHER	03/15/11	1010		X			
J1FK05	OTHER		1020		X			
J1FK06	OTHER		1030		X			
J1FK07	OTHER		1330		X			
J1FK08	OTHER	03/15/11	1345		X			

CHAIN OF POSSESSION

Sign/Print Names

	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	1610	J.E. Beenhard	3-15-11
Relinquished By/Removed From J.E. Beenhard	3-16-11 0920	FED EX	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time 3/17/11 0935	Received By/Stored In	Date/Time 3/17/11 0935
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

REVIEWED BY AF DATE 3-16-11

Matrix*: S=Soil; SE=Sediment; SO=Solid; SP=Sludge; W=Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liquids; T=Tissue; WI=Wipe; L=Liquid; V=Vegetation; X=Other

	Received By	Title	Date/Time
LABORATORY SECTION			
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011