0096789

SAF-RC-040
300 Area D4 Waste Characterization Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required KW 5/19/11
INITIAL/DATE

COMMENTS:

SDG D1110950 SAF-RC-040

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location/Waste Site: Building 320

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MAY 31 2011
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Cover

RECEIVED MAY 2011

Report Identification Number: D1110950
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM RC-040 KW
SAF#: ~~RC-001~~ / RC-040-574
Sample Receipt Date: 04/19/2011

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
03/28/2011	J1FKP8	1110950001	NIOSH 9002	66017	Bulk
03/28/2011	J1FKP9	1110950002	NIOSH 9002	66017	Bulk
03/28/2011	J1FKR0	1110950003	NIOSH 9002	66017	Bulk
03/28/2011	J1FKR1	1110950004	NIOSH 9002	66017	Bulk
03/28/2011	J1FKR2	1110950005	NIOSH 9002	66017	Bulk
03/28/2011	J1FKR3	1110950006	NIOSH 9002	66017	Bulk
03/28/2011	J1FKR4	1110950007	NIOSH 9002	66017	Bulk
03/28/2011	J1FKR5	1110950008	NIOSH 9002	66017	Bulk
03/28/2011	J1FKR6	1110950009	NIOSH 9002	66017	Bulk

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Name: Peter P. Steen
Title: Chemist
Date: May 13, 2011

Case Narrative

Report Identification Number: D1110950
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-040-574
Sample Receipt Date: 04/19/2011

General Workorder Information: There are five samples in workorder 1110916, nine samples in workorder 1110950, and six samples in workorder 1111142 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.

Miscellaneous Comments:

1110916001: White/silver, fibrous/papery material.
1110916002: White/silver, fibrous/papery material.
1110916003: Brown/silver, fibrous/papery material.
1110916004: Brown/silver, fibrous/papery material.
1110916005: Brown, fibrous paper material.
1110950001: Black, tarry roofing material.
1110950002: Black, tarry roofing material.
1110950003: Black, tarry/fibrous roofing material.
1110950004: Black, tarry roofing material.
1110950005: Black, tarry roofing material.
1110950006: Black, tarry roofing material.
1110950007: Black, tarry/fibrous roofing material.
1110950008: Black/brown, tarry/fibrous roofing material.
1110950009: Brown, fibrous insulation material.
1111142001: Brown, fibrous paper material.
1111142002: Gray/tan, fibrous/compacted insulation material.
1111142003: Black/white, tarry/foamy insulation material.
1111142004: White, foamy insulation material.
1111142005: Gray/silver, compacted/fibrous material.
1111142006: Gray/silver, fibrous/papery material.

Results

Report Identification Number: D1110950
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-040-574
Sample Receipt Date: 04/19/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J1FKP8	1110950001	05/10/2011	<1	U	<1	U	<1	U
J1FKP9	1110950002	05/10/2011	<1	U	<1	U	<1	U
J1FKR0	1110950003	05/10/2011	<1	U	<1	U	<1	U
J1FKR1	1110950004	05/10/2011	<1	U	<1	U	<1	U
J1FKR2	1110950005	05/10/2011	<1	U	<1	U	<1	U
J1FKR3	1110950006	05/10/2011	<1	U	<1	U	<1	U
J1FKR4	1110950007	05/10/2011	<1	U	<1	U	<1	U
J1FKR5	1110950008	05/10/2011	<1	U	<1	U	<1	U
J1FKR6	1110950009	05/10/2011	<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 %	
J1FKP8	1110950001	05/10/2011	<1	U	<1	U
J1FKP9	1110950002	05/10/2011	<1	U	<1	U
J1FKR0	1110950003	05/10/2011	<1	U	<1	U
J1FKR1	1110950004	05/10/2011	<1	U	<1	U
J1FKR2	1110950005	05/10/2011	<1	U	<1	U
J1FKR3	1110950006	05/10/2011	<1	U	<1	U
J1FKR4	1110950007	05/10/2011	<1	U	<1	U
J1FKR5	1110950008	05/10/2011	<1	U	<1	U
J1FKR6	1110950009	05/10/2011	<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: D1110950
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF: RC-001 / RC-040-574
Sample Receipt Date: 04/19/2011

Batch ID: 66017

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
QC107943	LCS	Amosite	%	ND	-	ND	-	-
QC107943	LCS	Amosite	%	ND	-	ND	-	-
QC107943	LCS	Chrysotile	%	ND	-	ND	-	-
QC107943	LCS	Chrysotile	%	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

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

1110950

W 1110950

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-040-574 Page 2 of 2

Collector: Inions/Deroos/Repko	Company Contact: Mike Stankovich; Telephone No.: 5094307142	Project Coordinator: KESSNER, JH	Price Code: 9K; Data Turnaround: 7 Days
Project Designation: 300 Area D4 Waste Characterization Sampling - Other Solid	Sampling Location: Building 320	SAF No.: RC-040	
Ice Chest No.: ~~WCH0800302~~ NA JEB 3-28-11	Field Logbook No.: EL-1518-18; COA: RD4MXX2F00	Method of Shipment: ~~Hand Deliver~~ AJ 4-18-11 Fed Ex	
Shipped To: AJ 4-18-11 ~~Test America Richland (III)~~ ALS-SL	Offsite Property No.: NA	Bill of Lading/Air Bill No.: ~~NA~~ AJ 4-18-11 7946 6527 1976	

POSSIBLE SAMPLE HAZARDS/REMARKS

Asbestos

Lot #J1C280494
SDG#MA02036
Due 4.4.11
AJ 4-18-11

Special Handling and/or Storage

None

Preservation	None										
Type of Container	G/P										
No. of Container(s)	1										
Volume	60g										
SAMPLE ANALYSIS	Asbestos-Bulk - NIOSH 9002										

Sample No.	Matrix *	Sample Date	Sample Time									
J1FKP8	OTHER SOLID	3-28-11	1220	X		MF9R1						
J1FKP9	OTHER SOLID	3-28-11	1225	X		MF9R2						
J1FKR0	OTHER SOLID	3-28-11	1226	X		MF9R3						
J1FKR1	OTHER SOLID	3-28-11	1227	X		MF9R4						
J1FKR2	OTHER SOLID	3-28-11	1228	X		MF9R5						

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
James R Deroos [signature]	3-28-11 1305	[signature] M Stankovich	3/28/11 1305
[signature] M Stankovich	3/28/11 1550	TALR Lucas Velazquez [signature]	3/28/11 1550
TALR Lucas Velazquez [signature]	4/18/11 1400	A. Freier A. Freier	4-18-11 1400
A. Freier A. Freier	4-18-11 1450	Fed Ex	
[signature]		[signature]	4/19/11 946
[signature]	4/19/11 1630		

SPECIAL INSTRUCTIONS

None AJ 4-18-11

REVIEWED BY JRE DATE 4-18-11

REVIEWED BY AJ DATE 3-28-11

Matrix *

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

LABORATORY SECTION	Received By: [signature]	Title	Date/Time: 4/19/11 946
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, USA 84123 PHONE +1 801 266 7700 FAX +1 801 268 9992
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COC

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-040-575	Page 1 of 2
Collector: Inions/Deroos/Repko	Company Contact: Mike Stankovich	Telephone No.: 5094307142	Project Coordinator: KESSNER, JH	Price Code: 9K; Data Turnaround: 7 Days
Project Designation: 300 Area D4 Waste Characterization Sampling - Other Solid	Sampling Location: Building 320		SAF No.: RC-040	
Ice Chest No.: ~~WCH0800302~~ NA JEB 3-28-11	Field Logbook No.: EL-1518-18	COA: RD4MXX2F00	Method of Shipment: ~~Hand Deliver~~ AJ 4-18-11 Fed Ex	
Shipped To: ALS-SL ~~Test America Richland (IH)~~ AJ 4-18-11	Offsite Property No.: NA		Bill of Lading/Air Bill No.: ~~NA~~ AJ 4-18-11 7946 6527 1976	

POSSIBLE SAMPLE HAZARDS/REMARKS
Asbestos

Special Handling and/or Storage
None

AJ 4-18-11
Lot# J1C280494
SDG# MAO 2036
Due 4.4.11

Preservation	None										
Type of Container	G/P										
No. of Container(s)	1										
Volume	60g										
SAMPLE ANALYSIS	Asbestos-Bulk - NIOSH 9002										

Sample No.	Matrix *	Sample Date	Sample Time									
J1FKR3	OTHER SOLID	3-28-11	1230	X		MF9RT	AJ 4-18-11					
J1FKR4	OTHER SOLID	3-28-11	1235	X		MF9RW						
J1FKR5	OTHER SOLID	3-28-11	1240	X		MF9RX						
J1FKR6	OTHER SOLID	3-28-11	1241	X		MF9RQ						
~~J1FKR7~~	~~OTHER SOLID~~	NA 3/28/11										

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS	Matrix *
Relinquished By/Removed From: James Deroos [signature] Date/Time: 3-28-11 1305	Received By/Stored In: [signature] MStankovich Date/Time: 3/28/11 1305	None	S=Soil, SE=Sediment, SO=Solid, SI=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other
Relinquished By/Removed From: WCH [signature] MStankovich Date/Time: 3/28/11 1550	Received By/Stored In: TALR Luca S Velazquez [signature] Date/Time: 1550 3/28/11		
Relinquished By/Removed From: TALR Luca Velazquez [signature] Date/Time: 4/18/11 1400	Received By/Stored In: A. Freier A. Freier Date/Time: 1400 4-18-11		
Relinquished By/Removed From: WCH A. Freier A. Freier Date/Time: 1450 4-18-11	Received By/Stored In: Fed Ex Date/Time:		
Relinquished By/Removed From: Fedex Date/Time:	Received By/Stored In: [signature] Date/Time: 4/19/11 1946		
Relinquished By/Removed From: [signature] Date/Time: 4/19/11 1630	Received By/Stored In: Date/Time:		

REVIEWED BY IRE DATE 4-18-11

REVIEWED BY AJ DATE 3-28-11

LABORATORY SECTION	Received By: [signature]	Title	Date/Time: 4/19/11 1946
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

2011-04-19-1110950-02

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