0085543

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

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required KW 3/25/10
INITIAL/DATE

COMMENTS:

SDG DC1003129 SAF-RC-040

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location/Waste Site: 324 High Bay

RECEIVED
APR 0 1 2010
EDMC

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Submitted To: Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland WA 99354

Test Report
Page 1 of 2
3/16/10

Client Sample No.:	J19L65 through J19L67
P.O. Number:	NA
Sample Location:	324 High Bay
Sample Type:	Vermiculite
Method Reference:	EPA/600/R-04/004, Chatfield Method, (Modified) Asbestos by PLM with Gravimetric Phase Separation
ALS Workorder No.:	DC 1003129
ALS Sample ID No.:	1003129-01 through 1003129-03
Date Received:	3/5/10
Preparation Date:	3/15/10
Analysis Date:	3/15/10 through 3/16/10

We certify that the sample indicated on the following data sheet was analyzed by Polarized Light Microscopy (PLM) for asbestos using a modification of the method, EPA/600/R-04/004, Chatfield Method, for determining the presence of asbestos in vermiculite attic insulation.

After an initial examination by stereomicroscope, a sub-sample was obtained using the cone and quarter method and prepared by immersing the sub-sample in distilled water. Larger, floating pieces of vermiculite were removed and the fine suspended material was decanted off to be prepared by the AHERA method for TEM analysis, if required. The remaining coarse material was dried and examined with a stereomicroscope. Any asbestos fibers detected by stereomicroscope were separated and mounted in the appropriate refractive index oil for PLM confirmation.

Asbestos was reported on a present or absent basis per the recommendation of the US EPA. Results apply only to portions of samples analyzed. ALS Laboratory Group will dispose of all bulk samples after 60 days unless other arrangements are made.

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Shawn Smythe
Analyst

Anna Marie Ristich
Section Manager

ALS Laboratory Group
4388 Glendale-Milford Road, Cincinnati, Ohio 45242
Phone (513) 733 5336 Fax (513) 733 5347 www.alsenviro.com
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ALS Laboratory Group Test Report
PLM Bulk Asbestos Analysis using Phase Separation

Client: Washington Closure Hanford
Sample Location: 324 High Bay

SAMPLE IDENTIFICATION			
Client ID: ALS ID:	J19L65 1003129-01	J19L66 1003129-02	J19L67 1003129-03
SAMPLE DESCRIPTION			
Homogeneity: Color: Texture: Description:	Homogeneous Gold Flaky Vermiculite	Homogeneous Gold Flaky Vermiculite	Homogeneous Gold Flaky Vermiculite
ASBESTOS DETECTED BY PLM IN COARSE FRACTION			
Chrysotile: Amosite: Crocidolite: *Actinolite-Tremolite: Anthophyllite:	Present	Present	Present
ASBESTOS IN SAMPLE	**Present**	**Present**	**Present**

*Notes: Asbestos listed as Actinolite-Tremolite also includes Richterite, Winchite and other Ca-Na-bearing fibrous amphiboles.

Shawn Smythe
Microscopist

Anna Marie Ristich
Section Manager

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-040-442	Page 1 of 1
Collector: INIONS	Company Contact: Mike Stankovich	Telephone No.: 430-7142	Project Coordinator: KESSNER, JH	Price Code: 9K — Data Turnaround: 7 Days
Project Designation: 300 Area D4 Waste Characterization Sampling - Other Solid	Sampling Location: 324 High Bay		SAF No.: RC-040	SUDH 3-4-10
Ice Chest No.: DC 42	Field Logbook No.: EL-1518-12	COA: RD4MXX2F00	Method of Shipment: FedEx	
Shipped To: ALS Laboratories - Cincinnati	Offsite Property No.: A100057		Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

Asbestos

Special Handling and/or Storage

None

1003129

Preservation	None									
Type of Container	G/P									
No. of Container(s)	1									
Volume	5g									
SAMPLE ANALYSIS	Asbestos BULK EPA									

Sample No	Matrix	Sample Date	Sample Time										
J19L63	OTHER SOLID												
J19L64	OTHER SOLID												
J19L65 01	OTHER SOLID	3410	1230	X									
J19L66 02	OTHER SOLID	3410	1240 ~~1235~~	X									
J19L67 03	OTHER SOLID	3410	1245 ~~1240~~	X									

CHAIN OF POSSESSION — Sign/Print Name: gd 3410

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Joe Inions Joe Inions	3410 1350	Mike MStankovich	3/4/10 1350
Mike MStankovich	3/4/10 1410	J. E. Bennel	3-4-10 1410
J. E. Bennel	3-4-10 1415	FED EX	
		ALS	3/5/10 1010

SPECIAL INSTRUCTIONS

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

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

REVIEWED BY SUDH DATE 3-4-10

WCH-EE-011