

WSCF ANALYTICAL LABORATORY REPORT

ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

for

Bechtel Hanford Inc
Richland , WA 99352

Attention: SJ TRENT/D AYERS H9-03

Survey ID B00-010-03

Data Validator

Stacy D Bell
(Approved Signatory)

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MAR 20 2000
EDMC

Group#: 20000151
Report Date 31-jan-2000
bulk/rev.2

Waste Management Federal Services Hanford, Inc.
MSIN: S3-28
Richland, WA 99352 Phone 373-7167

WSCF
ANALYTICAL LABORATORY REPORT
ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

Your samples have been analyzed for fiber content using polarized light microscopy and dispersion staining in accordance with Industrial Hygiene Laboratory Procedure LA-519-403, based on 40 CFR Part 763, Subpart E, App. E and EPA method EPA/600/R-93/116. The results are attached.

This method provides a visual estimate of the percentage of each fiber type present. It is a semiquantitative method intended to identify materials containing $>$ or $=$ 1% asbestos fibers.* Reported fiber percentages for samples and sample layers are based on the samples as received by the laboratory. The laboratory cannot verify that these values are representative of the original material sampled.

The Waste Sampling and Characterization Facility, is accredited by the National Institute of Standards and Technology (NIST), National Voluntary Laboratory Accreditation Program (NVLAP), to analyze bulk samples for asbestos content. This accreditation does not constitute approval or endorsement of analytical results by NIST nor does it apply to other analyses performed by this laboratory.

If there are questions concerning this report, please contact the approved signatory listed on the cover page of this report.

* Because of the nonhomogeneous nature of soils, results will be reported using the following terms rather than percentages:

1. None - No asbestos fibers found.
2. Trace detectable - With extensive searching, a few fibers of the type indicated were found; concentration very low, well below 1%.
3. Obvious presence - Fibers easily found but overall concentration still low.
4. Significant presence - Fibers readily found; overall concentration may approach or exceed 1% level.

Polarized light microscopy (PLM) may not be the preferred method for identification of asbestos in floor tile. Most vinyl floor tiles marketed in the late sixties to mid-seventies contained asbestos milled so fine as to be below detection limits for PLM techniques. Tiles of that vintage, showing any detectable asbestos fibers should be considered to be asbestos-containing material. Non-detection of asbestos by PLM should not be considered conclusive proof that the tiles do not contain asbestos. Follow-up analysis by other techniques may be required.

WSCF ANALYTICAL LABORATORY REPORT

Attention: SJ TRENT/D AYERS

Group #: 20000151

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W00I000212	BOXB36	The following are the results of this test- Bulk Asbestos Layer 1		Chrysotile Asbestos	40-60 %	dws	01/25/00	01/27/00	01/27/00
				Cellulose	5-10 %	dws	01/25/00	01/27/00	01/27/00
		SAMPLE COMMENT--	100% homogenous, grey, compressed, fibrous, corrugated						
		SAMPLE COMMENT--	paper (Alrcell), reportedly from the 300-FF-1 Landfill 1A						
		SAMPLE COMMENT--	Cleanup.						
W00I000213	BOXB37	The following are the results of this test- Bulk Asbestos Layer 1		Chrysotile Asbestos	15-25 %	dws	01/25/00	01/27/00	01/27/00
		SAMPLE COMMENT--	100% homogenous grey, hard, compressed cement board with						
		SAMPLE COMMENT--	protruding fiber bundles, reportedly from the 300-FF-						
		SAMPLE COMMENT--	Landfill 1A Cleanup.						

MDL=Minimum Detection Limit

RQ=Result Qualifier

B - The analyte was detected in the associated method blank.

J - Estimated value.

N - Identification is based on a mass spectral library search.

U - The analyte was analyzed for but not detected.

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Bechtel Hanford Inc

WSCF ANALYTICAL COMMENT REPORT

Attention: SJ TRENT/D AYERS

Group #: 20000151

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Validated 1/31/00 by SD Bolling, IH Technical Manager. Per discussion with Steve Trent, friability will not be described in this case narrative. Friability is something that is done in the field not the laboratory. This special instruction should be removed from the SAF.
W001000212	BOXB36	LOGSAMP		REC'D AND LOGGED BY MK GRANT 1/27/2000.
		TESTDATA	Bulk Asbestos Layer 1	100% homogenous, grey, compressed, fibrous, corrugated paper (Aircell), reportedly from the 300-FF-1 Landfill 1A Cleanup.
W001000213	BOXB37	TESTDATA	Bulk Asbestos Layer 1	100% homogenous grey, hard, compressed cement board with protruding fiber bundles, reportedly from the 300-FF-Landfill 1A Cleanup.

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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DB 0138

20000151

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			B00-0M-03	Page 1 of 1
Collector Doug Bowers	Company Contact Jeff Learch	Telephone No. 373-5904	Project Coordinator TRENT, SJ		Price Code 10 87A 1025-03	Data Turnaround 24 Hours
Project Designation A 87B 1-25-00 300-FF-1 Landfill Cleanup		Sampling Location A 1-25-00 300 FF-1 land fill		SAF No. 87B B00-0M-03 1-25-00	Air Quality <input type="checkbox"/>	
Ice Chest No.	Field Logbook No. EL 1395-2	COA A 87B 1-25-00 RNDFF12600	Method of Shipment Gov Vehicle			
Shipped To Radiological Counting Facility WSCF		Offsite Property No.		Bill of Lading/Air Bill No.		

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None	None	204P						
	Type of Container	P	P	P						
	No. of Container(s)	1	1	1						
	Special Handling and/or Storage	Volume	20mL only	750mL	204P Lock					

SAMPLE ANALYSIS		Rad Screen	See item (1) in Special Instructions.	Asbestos						
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Sample No.	Matrix	Sample Date	Sample Time							
Box B36	etch solid	1-25-00	1015		X					≤ 250 cpm
Box B37	etch solid	1-25-00	1032		X					≤ 250 cpm

CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS				Matrix *
Relinquished By Doug Bowers	Date/Time 1-25-00/1515	Received By RMA J00FF-1	Date/Time 1-25-00	** Friability shall be described in the WSCF case narrative.				S=Soil SE=Settlement SD=Solid S=Sediment W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other
Relinquished By DWShea	Date/Time 1-27-00/1405	Received By MK Grant	Date/Time 1-27-00	** COC Note- The ERC Contractor acknowledges the 48-hour holding time for nitrate, nitrite, and phosphate is not likely achievable.				
Relinquished By MK Grant	Date/Time 1-27-00/1420	Received By DWShea	Date/Time 1-27-00/1420	(1) GAMMA ENERGY ANALYSIS (Americium-241, Cobalt-60, Europium-152, Europium-154, Europium-155)				
Relinquished By	Date/Time	Received By	Date/Time					
Relinquished By	Date/Time	Received By	Date/Time					

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

REMAINING SAMPLE STORED AT WSCF ASBESTOS LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE

SAF-B00-010 FINAL DATA PACKAGE

FAX RESULTS TO:

Jeff Lerch

373-5373

N/A
INITIAL/DATE

VERIFICATION OF CLIENT RECEIPT:

Phone or E-Mail to Jeff Lerch

N/A
INITIAL/DATE

MAIL COMPLETE COPY OF DATA PACKAGE TO:

Jeff Lerch

L6-06

Apr 2-7-2010
INITIAL/DATE

COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE FAX COVER SHEET)

SDG

W3CF0084

SAF-B00-010

Rad only Chem only Rad & Chem

Complete

Partial

ANALYTICAL LABORATORY DATA PACKAGE

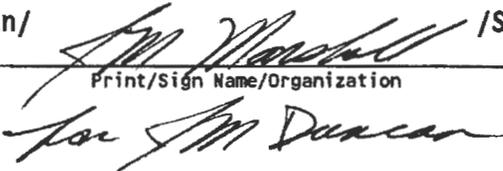
WSCF0084

PLEASE NOTE:

This data package is the Best Copy Available.

J. M. Duncan/

/Sample Management


Print/Sign Name/Organization