

**WSCF
ANALYTICAL LABORATORY REPORT
ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT**

for

**Bechtel Hanford Inc
Richland , WA 99352**

Attention: GC HAMILTON/CC KOERNER
X9-06 B1-35

Survey ID

Data Validator *MK Hamilton*
(Approved Signatory)



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Group#: 97000939
Report Date 24-jun-1997
bulk/rev.2



Rust Federal Services of Handford, Inc.
MSIN: S3-28
Richland, WA 99352

0047958

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 HAPR70-5, 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: GC HAMILTON/CC KOERNER

Group #: 97000939

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W971001222	BOL794	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
		Cellulose		60-80	%	dws1	06/13/97	06/16/97	06/17/97
		SAMPLE COMMENT---	100% black/brown tar and fibrous mixture						
		SAMPLE COMMENT---	Reportedly building felt from 116-DR-9, 100-D Area.						

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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WSCF
ANALYTICAL COMMENT REPORT

Attention: GC HAMILTON/CC KOERNER

Group #: 97000939

Sample #	Client ID	Lab Area	Test	Comment
W971001222	BOL794	VALGROUP LOGSAMP TESTDATA	Bulk Asbestos Layer 1	Validated 6/24/97 by MK Hamilton. LOGGED BY MKG 6/17/97. 100% black/brown tar and fibrous mixture Reportedly building felt from 116-DR-9, 100-D Area.

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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Waste Sampling and Characterization Facility
P.O. BOX 1970 S3-30, Richland, WA 99352
PHONE: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Bechtel Hanford Inc

Richland, WA 99352
Attn: GC HAMILTON/CC KOERNER

Customer Code: BHI-IH2
PO#: DB7297
Group#: 97000939

The following samples were received from you on 06/16/97. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W97I001222	BOL794	@BULK1	Solid, or handle as if solid	06/13/97

Test Acronym Description

Test Acronym	Description
@BULK1	Bulk Asbestos Layer 1

ASBESTOS MAR 6-16-97

Westinghouse Hanford Company
WSCF Laboratory

**BULK LEAD/LEAD SWIPE SAMPLE REQUEST
CHAIN OF CUSTODY FORM**

Radiation Zone Sample: Yes No

Released by:

Page 1 of 1

Contractor: ICF-KH PNL WHC (circle one) or Other: BHI

Survey No:

Collected By (Print Name):

Phone:

Signature:

G Hamilton

373-4887

Work Order #

Org Code:

Charge Code:

WSCF Group#:

DB7297

BHI

97000939

Approval Signature:

Shipped by:

Date Shipped:

Send Report To:

MSIN:

Phone/pager:

(cc:)

MSIN:

G Hamilton

X9-06

373 4887

531-0731

Sample Information

WSCF Lab No.	Sample ID No.	Room/Bldg/Area	Specific Location/Type
WAT 1001222 <u>B06794</u>	<u>B06794</u>		<u>100-D 116 DR-9</u>
Description: <u>Building Felt (Tan Paper Like)</u>			

WSCF Lab No.	Sample ID No.	Room/Bldg/Area	Specific Location/Type
Description: <u>cemail sent 6/07/97 DWS</u>			

WSCF Lab No.	Sample ID No.	Room/Bldg/Area	Specific Location/Type
Description:			

WSCF Lab No.	Sample ID No.	Room/Bldg/Area	Specific Location/Type
Description:			

WSCF Lab No.	Sample ID No.	Room/Bldg/Area	Specific Location/Type
Description:			

Chain of Custody

Relinquished By: Print	Sign	Date/Time	Company	Received By: Print	Sign	Date/Time	Company
<u>G Hamilton</u>		<u>CH2 Hill 1538</u>	<u>WCH</u>	<u>Mc Webb</u>		<u>6-16-97</u>	<u>1538</u>

Quality: Unless a prior arrangement is in place, analysis will be done in accordance with the WSCF Quality Assurance Project Plan for Industrial Hygiene Analyses

Final Sample Disposition: Bulk samples are held at the WSCF laboratory for at least 6 months. They are then discarded as hazardous waste or used as reference material. Swipe samples are consumed in analysis.

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