

WSCF005-4-WSCF

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WSCF ANALYTICAL LABORATORY REPORT ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

for

Bechtel Hanford Inc Richland, WA 99352

Attention: SJ TRENT MSIN H9-03

Survey ID B 99-030 -03

Data Validator [Signature] (Approved Signatory)

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Group#: 98001706 Report Date 21-dec-1998 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.

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ANALYTICAL LABORATORY REPORT

Attention: SJ TRENT MSIN H9-03

Group #: 98001706

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
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W981002023 BOTB09

The following are the results of this test- Bulk Asbestos Layer 1

Amosite Asbestos	present	%	dwe1	12/04/98	12/07/98	12/10/98
Cellulose	present	%	dwe1	12/04/98	12/07/98	12/10/98
Chrysotile Asbestos	present	%	dwe1	12/04/98	12/07/98	12/10/98
Crocidolite Asbestos	present	%	dwe1	12/04/98	12/07/98	12/10/98
Fiberglass	trace	%	dwe1	12/04/98	12/07/98	12/10/98

SAMPLE COMMENT--- 100% tan dirt with tar, insect parts, hair, metal shavings,
 SAMPLE COMMENT--- and bits of wood. Chrysotile, amosite, and crocidolite
 SAMPLE COMMENT--- asbestos all with significant presence; individual concentra-
 SAMPLE COMMENT--- tions approach or exceed 1%.
 SAMPLE COMMENT--- Please refer to page 2 of report for additional discussion
 SAMPLE COMMENT--- of soil analyses.

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: SJ TRENT MSIN H9-03

Group #: 98001706

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Validated 12/21/98 by MK Hamilton, IH QA Coordinator.
W981002023	B0TB09	LOGSAMP		REC'D BY MM KASTL AND LOGGED BY MK GRANT 12/7/98. Sample reportedly from 221-U Canyon Disposition Initiative Electrical Galleries S.
		TESTDATA	Bulk Asbestos Layer 1	100% tan dirt with tar, insect parts, hair, metal shavings, and bits of wood. Chrysotile, amosite, and crocidolite asbestos all with significant presence; individual concentra- tions approach or exceed 1%. Please refer to page 2 of report for additional discussion of soil analyses.

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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BHI-IH2

W04C/2 Report#: 98001706

Report Date: 21-dec-1998

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MKH 12/21/98

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B99-030-03	Page <u>1</u> of <u>1</u>
Collector Doug Bowers		Company Contact Doug Bryant		Telephone No. 373-7251	Project Coordinator TRENT, SJ H9-03	Data Turnaround 7 Days	
Project Designation 221-U Canyon Disposition Initiative - Electrical Galleries S		Sampling Location 221-U plant		SAF No. B99-030			
Ice Chest No.		Field Logbook No. EFL 1133-6		Method of Shipment Gov vehicle			
Shipped To Waste Samp. & Char. Fac.		Offsite Property No.		Bill of Lading/Air Bill No.			
Waste Designation				COA			

POSSIBLE SAMPLE HAZARDS/REMARKS Radioactive	Preservation	None										
	Type of Container	aG										
	No. of Container(s)	1										
	Special Handling and/or Storage	Volume	60mL									

SAMPLE ANALYSIS

GPH 98001706

Sample No.	Matrix *	Sample Date	Sample Time									
B0TB09	Other Solid	12-4-98	1340	X								

CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS ** Close SDG upon receipt of samples.				Matrix *	
Relinquished By	Date/Time	Received By	Date/Time	WC# DB 9024				S	= Soil
SIGALE	12-7-98 0910	MMKASTC	12-7-98 0910					SE	= Sediment
MMKASTC	12-8-98 0935	D.W. Shea	12/7/98					SO	= Solid
								SL	= Sludge
Relinquished By	Date/Time	Received By	Date/Time	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	Title		Date/Time
	results shared & emailed to client	MMKASTC	12/10/98	
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By		Date/Time
	REMAINING SAMPLE STORED AT WSCF ASBESTOS LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE			