

WSCF0106

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

for

**Bechtel Hanford Inc
Richland , WA 99352**

Attention: SJ TRENT/D AYERS MSIN H9-03

Survey ID B00-005-06

Data Validator *Stacy D Bolling*

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JAN 09 2000
EDMC

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Group#: 20001671
Report Date 26-oct-2000
bulk/rev.3

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Fluor Hanford, Inc.
MSIN: S3-28
Richland, WA 99352

Phone 373-7403

0054231

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 American Industrial Hygiene Association (AIHA) to analyze bulk samples for asbestos content. This accreditation does not constitute approval or endorsement of analytical results by AIHA.

If there are questions concerning this report, please contact the data validator 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 MSIN H9-03

Group #: 20001671

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
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W001002150 B10L65

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

Cellulose	1-2	%	mkh	10/23/00	10/23/00	10/23/00
Synthetic	85-95	%	mkh	10/23/00	10/23/00	10/23/00

SAMPLE COMMENT-- 100% white fibrous mat, reportedly from 271U.

RDL - Reporting Detection Limit RDL is $\geq 2 \times$ MDL

RQ=Result Qualifier J - Estimated value.

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Bechtel Hanford Inc

WSCF ANALYTICAL COMMENT REPORT

Attention: SJ TRENT/D AYERS MSIN H9-03

Group #: 20001671

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Validated 10/26/00 by SD Bolling, IH Technical Manager.
W001002150	B1GL85	LOGTEST	Bulk Asbestos Layer 1	Received and logged by MK Grant on 10/23/00.
		TESTDATA	Bulk Asbestos Layer 1	100% white fibrous mat, reportedly from 271U.

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

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			B00-005-06	Page 1 of 1
Collector <i>Jeff GALE</i> <i>10/23/00</i> <i>T. MALLEY</i>	Company Contact Duane Jacques	Telephone No. 531-0731	Project Coordinator TRENT, SJ		Price Code	Data Turnaround business D
Project Designation Industrial Hygiene Sampling - Other Solid	Sampling Location <i>2710</i>	SAF No. B00-005	Air Quality <input type="checkbox"/>			
Ice Chest No. <i>NIA</i>	Field Logbook No. <i>EL 1516</i>	COA <i>2005M 2W22</i> <i>8-23-00</i>	Method of Shipment Gov vehicle			
Shipped To Waste Sampling & Characterization	Offsite Property No. <i>NIA</i>	Bill of Lading/Air Bill No. <i>NIA</i>				

POSSIBLE SAMPLE HAZARDS/REMARKS <i>POSSIBLE ASBESTOS</i>	Preservation	None																		
	Type of Container	Poly Bag																		
	No. of Container(s)	1																		
	Special Handling and/or Storage	Volume	50g																	

SAMPLE ANALYSIS		Asbestos (Asbestos fibers)																		
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100500
2150

Sample No.	Matrix *	Sample Date	Sample Time																	
B10L65	OTHER SOLID	10-23-2000	0945	X																

CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS										Matrix *
Relinquished By <i>VIM M...</i>	Date/Time 10-23-2000 1045	Received By <i>SJ GALE</i>	Date/Time 10-23-2000 1045	** All relevant COAs must be provided on the Chain of Custody. ** WSCF Bulk Asbestos Analysis to be performed according to Procedure LA-519-403, Bulk Asbestos Identification - WSCF. WORK ORDER # DB 1103										S=Soil SE=Sediment SO=Solid S=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 <i>SJ GALE</i>	Date/Time 10-23-2000 11:00	Received By <i>M Grant</i>	Date/Time 10-23-00 1100											
Relinquished By <i>M Grant</i>	Date/Time 10-23-00 1130	Received By <i>M Hamilton</i>	Date/Time 10/23/00 1130											
Relinquished By	Date/Time	Received By	Date/Time											
Relinquished By	Date/Time	Received By	Date/Time											

LABORATORY SECTION	Received By	Title	Date/Time
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FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time
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BHI-EE-011 (10/99) *Samples are held at the WSCF laboratory for at least 6 months. They are then discarded as asbestos containing waste. SJS 10/26/00*