

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

for

**Bechtel Hanford, Inc.**  
**MSIN K2-09/H0-25**  
**Richland,, WA 99352**

*10/23/02* *10/23/02*  
Attention: ~~S-Murff~~/J Kessner ~~X2-09~~/H0-25

Survey ID J006J6-J006J9

Data Validator *Shrey D. B. [Signature]*

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Group#: 20021446  
Report Date 23-oct-2002  
bulk/rev.4

*WSCF0630*  
*B00-005*

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

Phone 373-7403

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**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.

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# WSCF ANALYTICAL LABORATORY REPORT

Attention: S Murff/J Kessner X2-09/H0-25

Group #: 20021446

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W021002538	J006J6	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
		Cellulose	<	1	%	sdb	10/17/02	10/17/02	10/21/02
		SAMPLE COMMENT--- Non-homogenous pieces of black tar covered with tan granular material and some rust spots, reportedly from Pipelines							
		SAMPLE COMMENT--- 1 & 2, 100NR-1. No asbestos was found in this portion of sample.							
W021002539	J006J7	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
		Cellulose	<	1	%	sdb	10/17/02	10/17/02	10/21/02
		Synthetic	<	1	%	sdb	10/17/02	10/17/02	10/21/02
		SAMPLE COMMENT--- Non-homogenous pieces of black tar covered with tan granular material and some rust spots, reportedly from Pipelines							
		SAMPLE COMMENT--- 1 & 2, 100 NR-1. No asbestos was found in this portion of sample.							
W021002540	J006J8	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
		Cellulose		1-2	%	sdb	10/17/02	10/17/02	10/21/02
		SAMPLE COMMENT--- Non-homogenous pieces of black tar covered with tan granular material and spots of rust, reportedly from Pipelines 1 & 2,							
		SAMPLE COMMENT--- 100 NR-1. Grey rocks and a few twigs were also found in this sample.							
		SAMPLE COMMENT--- No asbestos was found in this portion of the sample.							

RDL - Reporting Detection Limit RDL is  $\geq 2 \times$  MDL  
 RQ=Result Qualifier J - Estimated value.

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Attention: S Murff/J Kessner X2-09/H0-25

Group #: 20021446

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W021002541	J006J9	The following are the results of this test- Bulk Asbestos Layer 1							
		Cellulose	<		1 %	sdb	10/17/02	10/17/02	10/21/02
		<p>SAMPLE COMMENT-- Non-homogenous black pieces of tar covered with tan granular material, and small yellow and white rocks, reportedly from Pipelines 1 &amp; 2, 100 NR-1. No asbestos was found in this portion of sample.</p>							

RDL - Reporting Detection Limit RDL is  $\geq 2 \times$  MDL  
 RQ=Result Qualifier J - Estimated value.

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# WSCF ANALYTICAL COMMENT REPORT

Attention: S Murff/J Kessner X2-09/H0-25

Group #: 20021446

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP LOGSAMP		Validated 10/23/02 by SD Bolling, IH Technical Manager. SAMPLES ACCEPTABLE FOR RECEIPT. REC'D BY V SIMS 10/17/02 AND LOGGED BY MK GRANT 10/18/02.
W021002538	J006J6	TESTDATA	Bulk Asbestos Layer 1	Non-homogenous pieces of black tar covered with tan granular material and some rust spots, reportedly from Pipelines 1 & 2, 100NR-1. No asbestos was found in this portion of sample.
W021002539	J006J7	TESTDATA	Bulk Asbestos Layer 1	Non-homogenous pieces of black tar covered with tan granular material and some rust spots, reportedly from Pipelines 1 & 2, 100 NR-1. No asbestos was found in this portion of sample.
W021002540	J006J8	TESTDATA	Bulk Asbestos Layer 1	Non-homogenous pieces of black tar covered with tan granular material and spots of rust, reportedly from Pipelines 1 & 2, 100 NR-1. Grey rocks and a few twigs were also found in this sample. No asbestos was found in this portion of the sample.
W021002541	J006J9	TESTDATA	Bulk Asbestos Layer 1	Non-homogenous black pieces of tar covered with tan granular material, and small yellow and white rocks, reportedly from Pipelines 1 & 2, 100 NR-1. No asbestos was found in this portion of sample.

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

VALTEST - Test Validation  
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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2002146

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B00-005-017	Page 1 of 1
Collector RB Kerkow	Company Contact RB Kerkow	Telephone No. 372-2187	Project Coordinator KESSNER, JH		Price Code	Data Turnaround Business De	
Project Designation Industrial Hygiene Sampling - Other Solid	Sampling Location 100 NR-1	PIPELINES #1 & #2 AT 1315-		SAF No. B00-005	Air Quality <input type="checkbox"/>		
Ice Chest No. ERC-99-026	Field Logbook No. EL 1524-2	COA R1301N2600	Method of Shipment GOVERNMENT VEHICLE				
Shipped To Waste Sampling & Characterization	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A					
POSSIBLE SAMPLE HAZARDS/REMARKS POTENTIALLY RADIOACTIVE			Preservation	None			
Special Handling and/or Storage NONE			Type of Container	G/P			
			No. of Container(s)	1			
			Volume	50g			
SAMPLE ANALYSIS				Asbestos (Asbestos fibers)			
Sample No.	Matrix *	Sample Date	Sample Time				
J006J6 W02S002539	OTHER SOLID	10-17-02	1320	X			1A
J006J7 W02S002539	OTHER SOLID	10-17-02	1325	X			1B
J006J8 W02S002540	OTHER SOLID	10-17-02	1340	X			2A
J006J9 W02S002541	OTHER SOLID	10-17-02	1345	X			2B
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS			Matrix *
Relinquished By/Removed From RB Kerkow / RB Kerkow	Date/Time 11-17-02	Received By/Stored In Victor / Sins	Date/Time 10/17/02	W/O DB3021 FAX RESULTS TO: R KERKOW 372-8655			Se=Soil SE=Sediment SO=Solid SL=Sludge W = Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From Victor / Sins	Date/Time 10/17/02	Received By/Stored In M Grant / MK Grant	Date/Time 10/15/02	8:45			
Relinquished By/Removed From Storage	Date/Time	Received By/Stored In SD Collins	Date/Time 10/21/02				
Relinquished By/Removed From SD Collins	Date/Time 10/21/02	Received By/Stored In Storage	Date/Time				
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time				
LABORATORY SECTION	Received By MK Grant / MK Grant	Title H Sample Custodian	Date/Time 10-18-02				
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time				