

WSCF
ANALYTICAL LABORATORY REPORT

ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

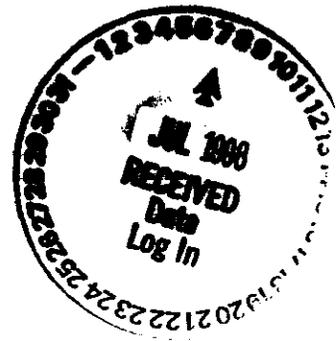
for

Bechtel Hanford Inc
Richland , WA 99352

Attention: D BRYANT/SJ TRENT
X5-53/X0-37

Survey ID SAF B98-095

Data Validator *MK Hamilton*
(Approved Signatory)



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Group#: 98000868
Report Date 1-jul-1998
bulk/rev.2

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

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WSCF-0044-WSCF

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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Group #: 98000868

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W98I001064	BOP366	The following are the results of this test- Bulk Asbestos Layer 1							
			Non-Asbestos	NF	100 %	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	45% black tar and rocks, nonfibrous except for surface fibers of cellulose and mineral wool; also 5% flat beige material-nonfibrous. This is a combination of 2 layers.						
W98I001064	BOP366	The following are the results of this test- Bulk Asbestos Layer 2							
			Cellulose		100 %	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	45% tan fibrous material						
W98I001064	BOP366	The following are the results of this test- Bulk Asbestos Layer 3							
			Cellulose	<	1 %	dws1	06/18/98	06/18/98	06/30/98
			Fiberglass		10-20 %	dws1	06/18/98	06/18/98	06/30/98
			Mineral Wool		30-40 %	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	5% flat black tar and fibrous material						
W98I001065	BOP367	The following are the results of this test- Bulk Asbestos Layer 1							
			Cellulose		comment%	dws1	06/18/98	06/18/98	06/30/98
			Mineral Wool		comment%	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	60% golden fibrous mat--100% mineral wool; 25% tan fibrous mat--100% cellulose. This is a combination of 2 layers.						

MDL=Minimum Detection Limit

RQ=Result Qualifier

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W98I001065	BOP367	<u>The following are the results of this test:</u>		<u>Bulk Asbestos Layer 2</u>					
			Synthetic	4-8	%	dws1	06/18/98	06/18/98	06/30/98
			Cellulose	40-60	%	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	10% black tar and fibrous mixture						
W98I001065	BOP367	<u>The following are the results of this test:</u>		<u>Bulk Asbestos Layer 3</u>					
			Non-Asbestos	NF	100 %	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	5% white flat tile like material						
W98I001066	BOP368	<u>The following are the results of this test:</u>		<u>Bulk Asbestos Layer 1</u>					
			Chrysotile Asbestos	2-4	%	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	100% black tar and fibrous mixture						
W98I001067	BOP369	<u>The following are the results of this test:</u>		<u>Bulk Asbestos Layer 1</u>					
			Non-Asbestos	NF	100 %	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	100% beige translucent pliable material--nonfibrous						
		SAMPLE COMMENT---	except for cellulose and other surface material.						
W98I001068	BOP370	<u>The following are the results of this test:</u>		<u>Bulk Asbestos Layer 1</u>					
			Cellulose	20-30	%	dws1	06/18/98	06/18/98	06/30/98
			Mineral Wool	60-80	%	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	95% brown fibrous bundle, glass shot						

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Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W98I001068	BOP370	<u>The following are the results of this test- Bulk Asbestos Layer 2</u>							
			Chrysotile Asbestos	5-10	%	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	5% black tar and fibrous mixture						
W98I001069	BOP371	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
			Cellulose	40-60	%	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	100% black tar and fibrous mixture						
W98I001070	BOP372	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
			Synthetic	<	1 %	dws1	06/18/98	06/18/98	06/30/98
			Cellulose	40-60	%	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	100% black tar and fibrous mix--6 layers similar material						
W98I001071	BOP373	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
			Synthetic	2-4	%	dws1	06/18/98	06/18/98	06/30/98
			Cellulose	40-60	%	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	100% black tar and fibrous mix--6 layers similar material						
W98I001072	BOP374	<u>The following are the results of this test- Bulk Asbestos Layer 1</u>							
			Cellulose	50-70	%	dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	100% black tar and fibrous material						

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Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W98I001073	BOP375	<u>The following are the results of this test:</u>	<u>Bulk Asbestos Layer 1</u>						
		SAMPLE COMMENT---	Cellulose	50-70	%	dws1	06/18/98	06/18/98	06/30/98
			50% black tar and woven fibrous material						
W98I001073	BOP375	<u>The following are the results of this test:</u>	<u>Bulk Asbestos Layer 2</u>						
		SAMPLE COMMENT---	Cellulose	60-80	%	dws1	06/18/98	06/18/98	06/30/98
			50% black tar and compressed fibrous material						
W98I001074	BOP376	<u>The following are the results of this test:</u>	<u>Bulk Asbestos Layer 1</u>						
		SAMPLE COMMENT---	Mineral Wool	comment%		dws1	06/18/98	06/18/98	06/30/98
			20% bright yellow fibrous material: ~ 95% mineral wool						
			10% dull beige fibrous material: ~ 95% mineral wool.						
			This is a combination of 2 layers						
W98I001074	BOP376	<u>The following are the results of this test:</u>	<u>Bulk Asbestos Layer 2</u>						
		SAMPLE COMMENT---	Cellulose	comment%		dws1	06/18/98	06/18/98	06/30/98
			Fiberglass	comment%		dws1	06/18/98	06/18/98	06/30/98
			Mineral Wool	comment%		dws1	06/18/98	06/18/98	06/30/98
			30% black tar and fibrous mixture: 20-30% cellulose, <1% fiberglass; 10% black flat tar and fibrous: 20-30% mineral wool, <1% fiberglass. This is a combination of 2 layers.						

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W98I001074	BOP376	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 3</u>					
			Cellulose	comment%		dws1	06/18/98	06/18/98	06/30/98
			Non-Asbestos	comment%		dws1	06/18/98	06/18/98	06/30/98
		SAMPLE COMMENT---	2% tan paper; 100% cellulose; 3% white flat pliable						
	SAMPLE COMMENT---	terial; nonfibrous; 25% brown/black mix of tar and rock;							
	SAMPLE COMMENT---	nonfibrous. This is a mixture of 3 layers.							
W98I001075	BOP384	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 1</u>					
			Cellulose		1-2 %	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	70% bright yellow foam/paper/foil						
W98I001075	BOP384	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 2</u>					
			Cellulose		40-60 %	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	30% black tar and fibrous mixture						
W98I001076	BOP385	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 1</u>					
			Non-Asbestos		NF 100 %	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	45% black tar (more likely-rubber) nonfibrous						
W98I001076	BOP385	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 2</u>					
			Fiberglass		20-30 %	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	35% black tar and woven fabric						

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W98I001076	BOP385	The following are the results of this test- Bulk Asbestos Layer 3							
			Non-Asbestos	NF	100 %	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	20% black rubber and adhesives, nonfibrous except for some						
		SAMPLE COMMENT---	surface contamination.						
W98I001077	BOP386	The following are the results of this test- Bulk Asbestos Layer 1							
			Cellulose		40-60 %	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	5% tan paper/metal foil						
W98I001077	BOP386	The following are the results of this test- Bulk Asbestos Layer 2							
			Chrysotile Asbestos		comment%	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	30% black tar and fibrous material: 10-20% chrysotile						
		SAMPLE COMMENT---	asbestos; 50% green sticky material, soft: 4-8% chrysotile						
		SAMPLE COMMENT---	asbestos. This is a combination of 2 layers.						
W98I001077	BOP386	The following are the results of this test- Bulk Asbestos Layer 3							
			Non-Asbestos		comment%	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	10% light yellow foam: nonfibrous; 5% black rubber; not						
		SAMPLE COMMENT---	analyzed due to small size and surface contamination of						
		SAMPLE COMMENT---	chrysotile asbestos. This is a combination of 2 layers.						

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Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W98I001078	BOP387	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 1</u>					
			Fiberglass	40-60	%	dws1	06/22/98	06/22/98	06/30/98
			Chrysotile Asbestos	8-15	%	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	100% black tar and fibrous mixture							
W98I001079	BOP388	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 1</u>					
			Cellulose	1-2	%	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	30% light yellow foam/paper/foil							
W98I001079	BOP388	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 2</u>					
			Cellulose	40-60	%	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	70% black tar and fibrous mixture							
W98I001080	BOP389	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 1</u>					
			Non-Asbestos	NF 100	%	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	75% light yellow foam							
W98I001080	BOP389	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 2</u>					
			Synthetic	2-4	%	dws1	06/22/98	06/22/98	06/30/98
			Cellulose	35-50	%	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	25% black tar and fibrous mix							

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Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W981001081	BOP390	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 1</u>					
			Non-Asbestos	NF	100 %	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	75 % light yellow foam							
W981001081	BOP390	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 2</u>					
			Synthetic	<	1 %	dws1	06/22/98	06/22/98	06/30/98
			Cellulose		20-30 %	dws1	06/22/98	06/22/98	06/30/98
			Chrysotile Asbestos		20-30 %	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	20% black tar and fibrous mix							
W981001081	BOP390	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 3</u>					
			Cellulose		100 %	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	5 % tan fibrous bundle							
W981001082	BOP391	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 1</u>					
			Non-Asbestos	NF	100 %	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	25% light yellow foam							
W981001082	BOP391	<u>The following are the results of this test-</u>		<u>Bulk Asbestos Layer 2</u>					
			Cellulose		20-30 %	dws1	06/22/98	06/22/98	06/30/98
			Chrysotile Asbestos		20-30 %	dws1	06/22/98	06/22/98	06/30/98
	SAMPLE COMMENT---	20% black tar and fibrous mixture							

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Attention: D BRYANT/SJ TRENT

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Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W98I001082	BOP391	<u>The following are the results of this test:</u>		<u>Bulk Asbestos Layer 3</u>					
			Cellulose	100	%	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	55% tan fibrous bundle						
W98I001083	BOP392	<u>The following are the results of this test:</u>		<u>Bulk Asbestos Layer 1</u>					
			Non-Asbestos	NF 100	%	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	40% light yellow foam						
W98I001083	BOP392	<u>The following are the results of this test:</u>		<u>Bulk Asbestos Layer 2</u>					
			Synthetic	2-4	%	dws1	06/22/98	06/22/98	06/30/98
			Fiberglass	4-8	%	dws1	06/22/98	06/22/98	06/30/98
			Cellulose	40-50	%	dws1	06/22/98	06/22/98	06/30/98
			Chrysotile Asbestos	5-10	%	dws1	06/22/98	06/22/98	06/30/98
		SAMPLE COMMENT---	60% black tar and fibrous mix						

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ANALYTICAL COMMENT REPORT

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Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Validated 7/1/98 by MK Hamilton, IH QA Coordinator.
W98I001064	BOP366	TESTDATA	Bulk Asbestos Layer 1	45% black tar and rocks, nonfibrous except for surface fibers of cellulose and mineral wool; also 5% flat beige material-nonfibrous. This is a combination of 2 layers.
		TESTDATA	Bulk Asbestos Layer 2	45% tan fibrous material
		TESTDATA	Bulk Asbestos Layer 3	5% flat black tar and fibrous material
W98I001065	BOP367	TESTDATA	Bulk Asbestos Layer 1	60% golden fibrous mat--100% mineral wool; 25% tan fibrous mat--100% cellulose. This is a combination of 2 layers.
		TESTDATA	Bulk Asbestos Layer 2	10% black tar and fibrous mixture
		TESTDATA	Bulk Asbestos Layer 3	5% white flat tile like material
W98I001066	BOP368	TESTDATA	Bulk Asbestos Layer 1	100% black tar and fibrous mixture
W98I001067	BOP369	TESTDATA	Bulk Asbestos Layer 1	100% beige translucent pliable material--nonfibrous except for cellulose and other surface material.
W98I001068	BOP370	TESTDATA	Bulk Asbestos Layer 1	95% brown fibrous bundle, glass shot
		TESTDATA	Bulk Asbestos Layer 2	5% black tar and fibrous mixture
W98I001069	BOP371	TESTDATA	Bulk Asbestos Layer 1	100% black tar and fibrous mixture
W98I001070	BOP372	TESTDATA	Bulk Asbestos Layer 1	100% black tar and fibrous mix--6 layers similar material
W98I001071	BOP373	TESTDATA	Bulk Asbestos Layer 1	100% black tar and fibrous mix--6 layers similar material
W98I001072	BOP374	TESTDATA	Bulk Asbestos Layer 1	100% black tar and fibrous material
W98I001073	BOP375	TESTDATA	Bulk Asbestos Layer 1	50% black tar and woven fibrous material
		TESTDATA	Bulk Asbestos Layer 2	50% black tar and compressed fibrous material
W98I001074	BOP376	TESTDATA	Bulk Asbestos Layer 1	20% bright yellow fibrous material: ~95% mineral wool
				10% dull beige fibrous material: ~95% mineral wool.
				This is a combination of 2 layers
		TESTDATA	Bulk Asbestos Layer 2	30% black tar and fibrous mixture: 20-30% cellulose, <1%

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#: 98000868

Report Date: 1-jul-1998

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WSCF ANALYTICAL COMMENT REPORT

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Sample #	Client ID	Lab Area	Test	Comment
		TESTDATA	Bulk Asbestos Layer 3	fiberglass; 10% black flat tar and fibrous; 20-30% mineral wool. < 1% fiberglass. This is a combination of 2 layers.
		TESTDATA	Bulk Asbestos Layer 3	2% tan paper; 100% cellulose; 3% white flat pliable terial; nonfibrous; 25% brown/black mix of tar and rock; nonfibrous. This is a mixture of 3 layers.
W981001075	BOP384	TESTDATA	Bulk Asbestos Layer 1	70% bright yellow foam/paper/foil
		TESTDATA	Bulk Asbestos Layer 2	30% black tar and fibrous mixture
W981001076	BOP385	TESTDATA	Bulk Asbestos Layer 1	45% black tar (more likely-rubber) nonfibrous
		TESTDATA	Bulk Asbestos Layer 2	35% black tar and woven fabric
		TESTDATA	Bulk Asbestos Layer 3	20% black rubber and adhesives, nonfibrous except for some surface contamination.
W981001077	BOP386	LOGSAMP		Samples BOP384-BOP392 received 6/22/98 by S Cobb & logged by MK Grant.
		TESTDATA	Bulk Asbestos Layer 1	5% tan paper/metal foil
		TESTDATA	Bulk Asbestos Layer 2	30% black tar and fibrous material; 10-20% chrysotile asbestos; 50% green sticky material, soft; 4-8% chrysotile asbestos. This is a combination of 2 layers.
		TESTDATA	Bulk Asbestos Layer 3	10% light yellow foam; nonfibrous; 5% black rubber; not analyzed due to small size and surface contamination of chrysotile asbestos. This is a combination of 2 layers.
W981001078	BOP387	TESTDATA	Bulk Asbestos Layer 1	100% black tar and fibrous mixture
W981001079	BOP388	TESTDATA	Bulk Asbestos Layer 1	30% light yellow foam/paper/foil
		TESTDATA	Bulk Asbestos Layer 2	70% black tar and fibrous mixture
W981001080	BOP389	TESTDATA	Bulk Asbestos Layer 1	75% light yellow foam
		TESTDATA	Bulk Asbestos Layer 2	25% black tar and fibrous mix

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#: 98000868

Report Date: 1-jul-1998

13/14

WSCF ANALYTICAL COMMENT REPORT

Attention: D BRYANT/SJ TRENT

Group #: 98000868

Sample #	Client ID	Lab Area	Test	Comment
W98I001081	BOP390	TESTDATA	Bulk Asbestos Layer 1	75% light yellow foam
		TESTDATA	Bulk Asbestos Layer 2	20% black tar and fibrous mix
		TESTDATA	Bulk Asbestos Layer 3	5% tan fibrous bundle
W98I001082	BOP391	TESTDATA	Bulk Asbestos Layer 1	25% light yellow foam
		TESTDATA	Bulk Asbestos Layer 2	20% black tar and fibrous mixture
		TESTDATA	Bulk Asbestos Layer 3	55% tan fibrous bundle
W98I001083	BOP392	TESTDATA	Bulk Asbestos Layer 1	40% light yellow foam
		TESTDATA	Bulk Asbestos Layer 2	60% black tar and fibrous mix

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#: 98000868

Report Date: 1-jul-1998

Handwritten: 2/11/98
14/14

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			B98-095-05	Page 1 of 1
Collector Robert Fahlberg		Company Contact Doug Bryant		Telephone No. 373-7251	Project Coordinator TRENT, SJ	
Project Designation 105F & 105DR ISS Project - Other Solid		Sampling Location 100 DR		SAF No. B98-095		
Ice Chest No.		Field Logbook No. EL-1309-2		Method of Shipment Hand deliver/Govt vehicle		
Shipped To Waste Samp. & Char. Fac.		Offsite Property No.		Bill of Lading/Air Bill No.		

B98-095-05
Page 1 of 1
Data Turnaround
7 Days

Waste Designation Client determined no waste codes associated with this project. COA **W.O. # DB8165**

POSSIBLE SAMPLE HAZARDS/REMARKS Possible radionuclide contamination	Preservation	None																		
	Type of Container	Poly Bag																		
	No. of Container(s)	1																		
Special Handling and/or Storage	Volume	10g																		

SAMPLE ANALYSIS
W98I0064-71074 (3pp 4/18/98)

Sample No.	Matrix *	Sample Date	Sample Time																		
BOP 366	X	6-18-98	1040	X																	
BOP 367	X	6-18-98	1110	X																	
BOP 368	X	6-18-98	1120	X																	
BOP 369	X	6-18-98	1125	X																	
BOP 370	X	6-18-98	1130	X																	

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS ** All samples are to be in a single SDG										Matrix * S = Soil SE = Sediment SO = Solid SL = 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	Date/Time	Received By	Date/Time												
	<i>R. Fahlberg</i>	6-18-98 1430	<i>John Cobble</i>	06/18/98												
	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	Disposed By		Date/Time

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

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST					B98-095-06	Page 1 of 1								
Collector Robert Fahlberg		Company Contact Doug Bryant		Telephone No. 373-7251		Project Coordinator TRENT, SJ		7 Days								
Project Designation 105F & 105DR ISS Project - Other Solid		Sampling Location 100DR		SAF No. B98-095												
Ice Chest No.		Field Logbook No. EL-1309-2		Method of Shipment Hand deliver/Govt vehicle												
Shipped To Waste Samp. & Char. Fac.		Offsite Property No.		Bill of Lading/Air Bill No.												
Waste Designation Client determined no waste codes associated with this project.						COA										
POSSIBLE SAMPLE HAZARDS/REMARKS Possible radionuclide contamination Special Handling and/or Storage			Preservation	None												
			Type of Container	Poly Bag												
			No. of Container(s)	1												
			Volume	10g												
SAMPLE ANALYSIS			Asbestos													
Sample No.	Matrix *	Sample Date	Sample Time													
BOP321	X	6-18-98	1135													
BOP322	X	6-18-98	1140													
BOP323	X	6-18-98	1145													
BOP324	X	6-18-98	1230													
BOP325	X	6-18-98	1240													
CHAIN OF POSSESSION			Sign/Print Names				SPECIAL INSTRUCTIONS				Matrix *					
Relinquished By 6-18-98 Date/Time			Received By Date/Time 06/18/98				** All samples are to be in a single SDG.				S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other					
R. Fahlberg Date/Time 1430			S. Cobb Date/Time 140													
Relinquished By Date/Time			Received By Date/Time													
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 REMAINING SAMPLE STORED AT WSCF ASBESTOS Disposed By Date/Time														
LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE																

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B98-095-07	Page 1 of 1
Collector Robert Fahlberg		Company Contact Doug Bryant		Telephone No. 373-7251		Project Coordinator TRENT, SJ	
Project Designation 105F & 105DR ISS Project - Other Solid		Sampling Location 100DR		SAF No. B98-095		7 Days	
Ice Chest No.		Field Logbook No. EL-1309-2		Method of Shipment Hand deliver/Govt vehicle			
Shipped To Waste Samp. & Char. Fac.		Offsite Property No.		Bill of Lading/Air Bill No.			

Waste Designation Client determined no waste codes associated with this project. **COA**

POSSIBLE SAMPLE HAZARDS/REMARKS Possible radionuclide contamination	Preservation	None																		
	Type of Container	Poly Bag																		
	No. of Container(s)	1																		
Special Handling and/or Storage	Volume	10g																		

SAMPLE ANALYSIS

Asbestos Bulk

Sample No.	Matrix *	Sample Date	Sample Time																		
BOP 376	X	6-18-98	1245	X																	

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS ** All samples are to be in a single SDG.	Matrix * S - Soil SF - Sediment SO - Solid SI - 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>R. G. Cobb</i> Date/Time: <i>6/18/98 1430</i>	Received By: <i>St. Cobb</i> Date/Time: <i>6/18/98 1430</i>		
	Relinquished By: <i>J. R. G. Cobb</i> Date/Time: <i>6/18/98 1430</i>	Received By: <i>St. Cobb</i> Date/Time: <i>6/18/98 1430</i>		
	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____		

LABORATORY SECTION	Received By: _____ Title: _____ Date/Time: _____
FINAL SAMPLE DISPOSITION	Disposal Method: REMAINING SAMPLE STORED AT WSCF ASBESTOS LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE Disposed By: _____ Date/Time: _____

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST					B98-095-08		Page 1 of 1												
Collector Robert Fahlberg		Company Contact Doug Bryant		Telephone No. 373-7251		Project Coordinator TRENT, SJ		Data Turnaround <i>R.S.</i> <i>7 Days 6-22-98</i> <i>2-5 DAY</i>													
Project Designation 105F & 105DR ISS Project - Other Solid		Sampling Location 105F		SAF No. B98-095																	
Ice Chest No.		Field Logbook No. FL-1309-2		Method of Shipment Hand deliver/Govt vehicle																	
Shipped To Waste Samp. & Char. Fac.		Offsite Property No.		Bill of Lading/Air Bill No.																	
Waste Designation Client determined no waste codes associated with this project.				COA																	
POSSIBLE SAMPLE HAZARDS/REMARKS Possible radionuclide contamination			Preservation	None																	
			Type of Container	Poly Bag																	
			No. of Container(s)	1																	
			Special Handling and/or Storage	Volume	10g																
			Asbestos																		
SAMPLE ANALYSIS																					
<i>W985001075 → 1083 (2pp 6/22/98)</i>																					
Sample No.	Matrix *	Sample Date	Sample Time																		
BOP384	X	6-22-98	1010	X																	
BOP385	X	6-22-98	1015	X																	
BOP386	X	6-22-98	1030	X																	
BOP387	X	6-22-98	1040	X																	
BOP388	X	6-22-98	1050	X																	
CHAIN OF POSSESSION		Sign/Print Names					SPECIAL INSTRUCTIONS ** All samples are to be in a single SDG.							Matrix *							
Relinquished By <i>R. Fahlberg</i>		Date/Time <i>6-22-98 1510</i>		Received By <i>S. Cobb</i>		Date/Time <i>6/22/98</i>									<ul style="list-style-type: none"> S - Soil SE - Sediment SO - Solid SL - 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		Date/Time		Received By		Date/Time															
Relinquished By		Date/Time		Received By		Date/Time															
Relinquished By		Date/Time		Received By		Date/Time															
LABORATORY SECTION		Received By REMAINING SAMPLE STORED AT WSCF ASBESTOS																			
FINAL SAMPLE DISPOSITION		Disposal Method LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE																			

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B98-095-09	Page 1 of 1
Collector Robert Fahlgberg		Company Contact Doug Bryant		Telephone No. 373-7251		Project Coordinator TRENT, SJ	
Project Designation 105F & 105DR ISS Project - Other Solid		Sampling Location 105F		SAF No. B98-095		Data Turnaround RS 7 Days 6.22.98 2 to 5 days	
Ice Chest No.		Field Logbook No. EL1309.2		Method of Shipment Hand deliver/Govt vehicle			
Shipped To Waste Samp. & Char. Fac.		Offsite Property No.		Bill of Lading/Air Bill No.			

Waste Designation Client determined no waste codes associated with this project. COA

POSSIBLE SAMPLE HAZARDS/REMARKS Possible radionuclide contamination	Preservation	None																
	Type of Container	Poly Bag																
	No. of Container(s)	1																
Special Handling and/or Storage	Volume	10g																

SAMPLE ANALYSIS				Asbestos														
-----------------	--	--	--	----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample No.	Matrix *	Sample Date	Sample Time															
BOP 389	X	6.22.98	1215	X														
BOP 390	X	6.22.98	1240	X														
BOP 391	X	6.22.98	1250	X														
BOP 392	X	6.22.98	1305	X														

CHAIN OF POSSESSION		Sign/Print Names				SPECIAL INSTRUCTIONS ** All samples are to be in a single SDG.						Matrix *						
Relinquished By	Date/Time	Received By	Date/Time															
R. Fahlgberg	6.22.98 1510	St. C. Lib...	6/22/98 1510															

LABORATORY SECTION	Received By	REMAINING SAMPLE STORED AT WSCF ASBESTOS												Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method	LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE												Disposed By	Date/Time