5519

SFUND RECORDS CTR
2118472

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

September 20, 2005

Ecology and Environment, Inc.
350 Sansome
Ste 300
San Francisco, CA 94104

Dear Howard,

Enclosed is the requested data sheets for the job numbers the validator found errors in.

Included are the verification sheets for the Actiniolite found on sample 041188-09, the Actinolite found on sample 041188-49, the Edenite and Actinolite found on sample 041191-05, and the Actinolite fournd on sample 041191-56, also included is an updated copy of the Prep Sheet with the correct dilution factors.

I plan on speaking with Dee Shepard from Trillium today, and if anything changes I will update the information as needed.

Sincerely,

Kate March
Lab/Cor, Inc.
Seattle WA, 98117

(206)781-0155
kmarch@labcor.net

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

September 6, 2005
REVISED Indirect Sample Prep List

Prepped	Job #	L/C#	Sample Vol. (L)	Original Filter Area (mm2)	Test Filter Area (mm2)	FF Remain	FF Used	Visual Loading	Number of Grid Openings	Residual Volume (ml)	Aliquot (ml)	Dilution	Grids Needed
MH 1/21/05	041172	01	300.96	385	193	0.49	0.25	1.4	177.00	20	20	1:2	7
MH 1/21/05	041172	02	296.04	385	193	0.49	0.25	1	180.00	20	20	1:2	7
MH 1/21/05	041172	11	608.15	385	193	0.53	0.25	1.4	88.00	20	20	1:2	4
	041188	02	2343	385	193	Filter Blown Out							
MH 1/21/05	041188	03	902.5	385	193	0.5	0.25	2.2	59.00	20	20	1:2	3
MH 1/21/05	041188	05	893.84	385	193	0.6	0.25	2.2	60.00	20	20	1:2	3
MH 1/21/05	041188	06	908.8	385	193	0.6	0.25	3	59.00	20	20	1:2	3
MH 1/21/05	041188	07	900.33	385	193	0.65	0.25	2.7	118.00	20	10	1:4	5
MH 1/21/05	041188	08	2464.87	385	193	0.65	0.25	2.2	22.00	20	20	1:2	3
MH 1/28/05	041188	09	2465.37	385	193	0.45	0.25	3	43.00	20	10	1:4	3
MH 1/28/05	041188	12	903.74	385	193	0.7	0.25	2.1	59.00	20	20	1:2	3
MH 1/28/05	041188	15	605.59	385	193	0.65	0.25	1.3	88.00	20	20	1:2	4
	041188	16	586.2	385	193	Filter Blown Out							
MH 1/28/05	041188	19	311.64	385	193	0.7	0.25	1.4	171.00	20	20	1:2	7
MH 1/28/05	041188	20	308.4	385	193	0.75	0.5	1.2	173.00	20	10	1:2	7
MH 1/28/05	041188	25	625.58	385	193	0.65	0.25	1.2	85.00	20	20	1:2	4
MH 1/28/05	041188	27	626.25	385	193	0.7	0.25	1.9	85.00	20	20	1:2	4
MH 1/28/05	041188	31	315.25	385	193	0.75	0.5	1.2	169.00	20	10	1:2	7
MH 1/28/05	041188	37	598.92	385	193	0.6	0.25	1.3	89.00	20	20	1:2	4
MH 2/10/05	041188	39	299.11	385	193	0.89	0.5	2.8	237.00	20	7.5	1:2.7	9
MH 2/10/05	041188	40	306.25	385	193	0.89	0.5	1.4	174.00	20	10	1:2	7
MH 2/10/05	041188	43	312.54	385	193	0.89	0.5	2.2	170.00	20	10	1:2	7
MH 2/10/05	041188	44	307.46	385	193	0.89	0.5	1.8	173.00	20	10	1:2	7
MH 2/10/05	041188	45	302.04	385	193	0.89	0.5	1.3	176.00	20	10	1:2	7
MH 2/10/05	041188	47	309	385	193	0.89	0.5	1.5	172.00	20	10	1:2	7

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Prepped	Job #	L/C#	Sample Vol. (L)	Original Filter Area (mm2	Test Filter Area (mm2)	FF Remain	FF Used	Visual Loading	Number of Grid Openings	Residual Volume (ml)	Aliquot (ml)	Dilution	Grids Needed
MH 2/10/05	041188	48	312.72	385	193	0.48	0.25	1	170.00	20	20	1:2	7
MH 2/10/05	041188	49	294.96	385	193	0.72	0.25	1.3	181.00	20	20	1:2	8
MH 2/10/05	041188	86	1203.6	385	193	0.68	0.25	1.7	44.00	20	20	1:2	3
	041188	89	1199.52	385	193	Filter Blown Out							
MH 2/10/05	041188	98	1244.76	385	193	0.45	0.25	1.5	43.00	20	20	1:2	3
MH 2/10/05	041188	101	1215.88	385	193	0.89	0.5	3	88.00	20	5	1:4	4
MH 2/10/05	041188	103	1247.88	385	193	1	0.5	1.8	43.00	20	10	1:2	3
MH 3/22/05	041188	111	1148.05	385	193	1	0.5	1.4	46.00	20	10	1:2	3
MH 3/22/05	041191	04	893.16	385	193	0.75	0.5	1.9	60.00	20	10	1:2	3
MH 3/22/05	041191	05	920.52	385	193	0.75	0.25	2.5	77.00	20	15	1:2.7	4
MH 3/22/05	041191	06	904.68	385	193	0.75	0.25	2.4	79.00	20	15	1:2.7	4
MH 3/22/05	041191	24	582.92	385	193	0.75	0.5	2.3	91.00	20	10	1:2	5
MH 3/22/05	041191	26	598.5	385	193	0.75	0.5	1.1	89.00	20	10	1:2	4
KM 3-16-05	041191	28	306.24	385	193	0.75	0.5	2.4	174.00	20	10	1:2	7
KM 3-16-05	041191	29	305.4	385	193	0.75	0.5	2.7	174.00	20	10	1:2	7
KM 3-16-05	041191	33	300.96	385	193	0.75	0.5	1.3	177.00	20	10	1:2	7
KM 3-16-05	041191	34	305.28	385	193	0.75	0.5	3	233.00	20	7.5	1:2.7	9
KM 3-16-05	041191	35	301.44	385	193	0.75	0.5	2.4	177.00	20	10	1:2	7
MH 3/22/05	041191	36	878.04	385	193	0.75	0.5	2.2	61.00	20	10	1:2	4
MH 3/22/05	041191	37	903.6	385	193	0.75	0.5	2.6	79.00	20	7.5	1:2.7	4
MH 3/22/05	041191	39	929.16	385	193	0.75	0.5	2.2	57.00	20	10	1:2	3
MH 3/22/05	041191	40	928.08	385	193	0.75	0.5	2.5	57.00	20	10	1:2	3
MH 3/7/05	041191	49	307.56	385	193	0.75	0.5	2.7	231.00	20	7.5	1:2.7	9
MH 3/7/05	041191	50	303.72	385	193	0.75	0.5	2.4	175.00	20	10	1:2	7
MH 3/7/05	041191	51	296.76	385	193	0.75	0.5	2.8	239.00	20	7.5	1:2.7	9
MH 3/7/05	041191	53	303.72	385	193	0.75	0.5	3	234.00	20	7.5	1:2.7	9
MH 3/7/05	041191	54	309.24	385	193	0.75	0.5	2.1	172.00	20	10	1:2	7

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Prepped	Job #	L/C#	Sample Vol. (L)	Original Filter Area (mm2)	Test Filter Area (mm2)	FF Remain	FF Used	Visual Loading	Number of Grid Openings	Residual Volume (ml)	Aliquot (ml)	Dilution	Grids Needed
MH 3/7/05	041191	55	302.52	385	193	0.75	0.5	2.5	176.00	20	10	1:2	7
MH 3/7/05	041191	56	291.96	385	193	0.75	0.5	2.5	182.00	20	10	1:2	8
MH 3/22/05	041191	82	606.99	385	193	1	0.5	1.5	88.00	20	10	1:2	4
MH 3/22/05	041191	87	580.78	385	193	0.82	0.5	1.4	92.00	20	10	1:2	5
	041191	100	303.21	385	193	0.85	Rejected at Prep - About 1-2 mm hole in filter						
	041191	101	1231.2	385	193	0.89	Rejected at Prep - About 1-2 mm hole in filter						
	041191	104	1255.2	385	193	0.89	Rejected at Prep - Blue & White filter remmants from manufacturing under filter, causing redistribution of air flow over filter						
MH 3/7/05	041191	108	1258.8	385	193	0.89	0.5	2.8	56.00	20	7.5	1:2.7	3
MH 3/7/05	041191	109	1185.06	385	193	0.89	0.5	1.4	45.00	20	10	1:2	3
MH 3/7/05	041191	112	1243.2	385	193	0.89	0.5	2.1	43.00	20	10	1:2	3
	041210	22	6588.09	385	193	Filter Blown Out							
MH 3/22/05	041210	46	7200	385	193	0.8	0.25	3	49.00	20	10	1:4	3
MH 3/22/05	041210	47	7072.96	385	193	0.8	0.25	3	50.00	20	10	1:4	3
MH 3/22/05	041210	59	6931.34	385	193	0.8	0.25	3	51.00	20	10	1:4	3
MH 3/30/05	050580	02	605.59	385	193	0.65	0.25	1.3	88.00	20	20	1:2	4
MH 3/30/05	050580	03	605.59	385	193	0.65	0.25	1.3	88.00	20	20	1:2	4
MH 3/30/05	050580	07	1185.06	385	193	0.89	0.5	1.4	45.00	20	10	1:2	3
KM 3/16/2005	Lab Process Blank			385	193	1	0.5	0	60.00	20	10	1:2	3

QC Supervisor,

Kate March

QC Technician,

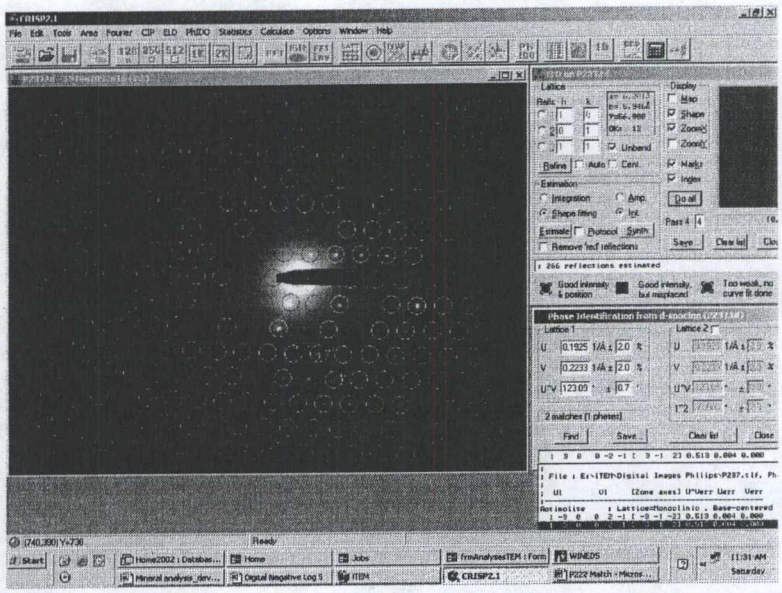
Minh Huynh

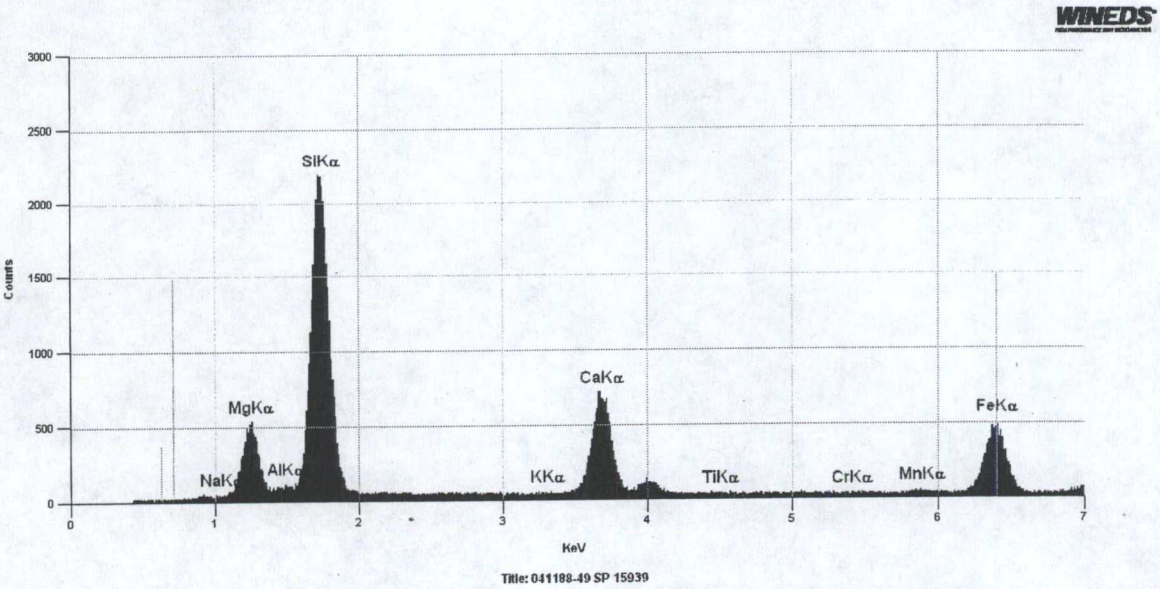
Actinolite

Zone Axis [3 -1 2]

Neg# P237 Job# 041188-49

iTEM Image





Quantitative Analysis Results - Standardless Analysis :
Spectrum8 041188-49 SP 15939 Sat, Mar 26 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 10.05
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.69	MgO	16.03	0.64	16.03
Al	0.07	Al2O3	0.17	0.14	0.17
Si	21.47	SiO2	59.02	1.19	59.02
Ca	4.42	CaO	11.34	0.49	11.34
Fe	3.68	Fe2O3	13.44	0.75	13.44
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	59.02	Si+4	8.0000	8.0000							
Al2O3	0.17	Al+3	0.0467	0.0000	**0.0467**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	13.44	Fe+3	0.2638			0.2638	0.0000				
MgO	16.03	Mg+2	3.3525			3.3525	**0.0000**				
MnO	0	Fe+2	1.3012			1.3012	**0.0000**				
CaO	11.34	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.7144					1.7144	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	**0.0467**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	8		4.9643		1.7144		0.0000	0.0000
			%Fill	100		99.2857		85.7209			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-49-15939

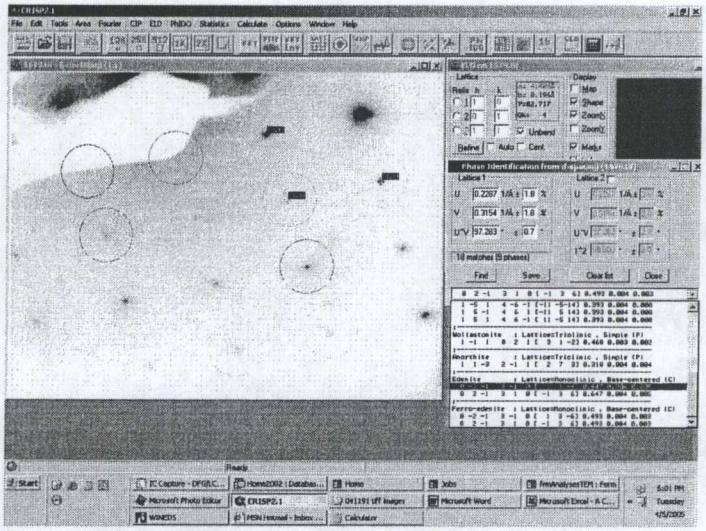
Values		Satisfied Conditions
(Ca,Na)@B	1.71	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.71	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.72	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

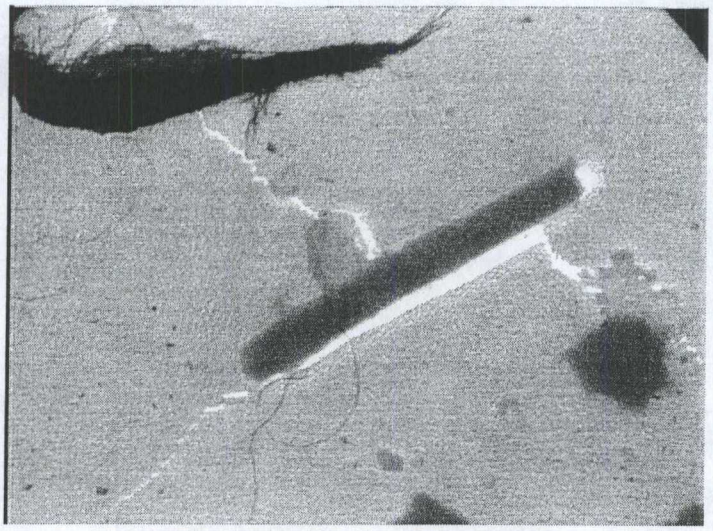
Mineral Analysis Program (Version 5.0)

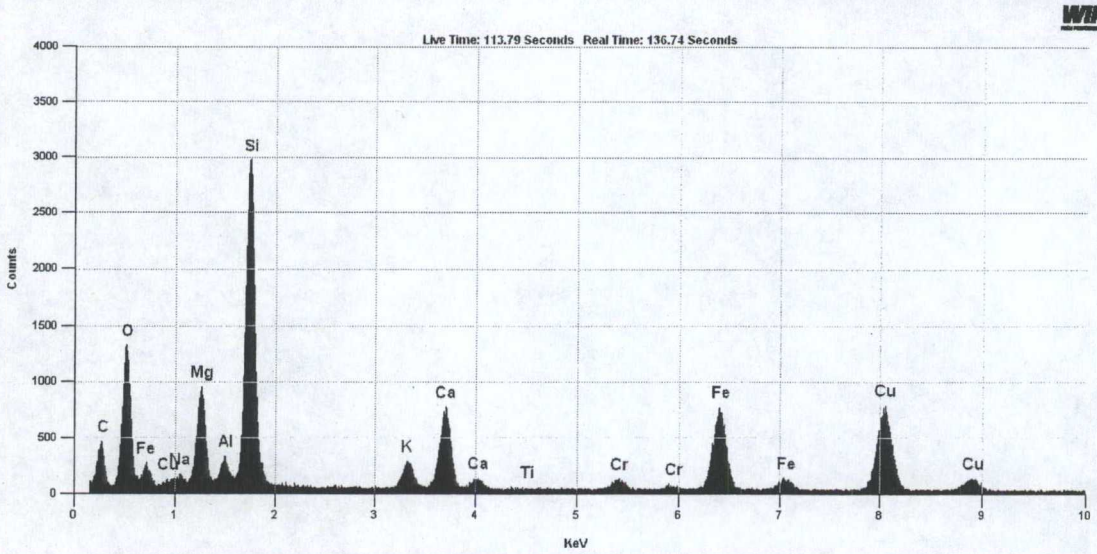
Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

EDENITE - Zone Axis [1 3 -6]
Neg# J1579 Job# 041191-05
JEOL 1200EX - Gatan Image







Quantitative Analysis Results - Standardless Analysis :
041191-05 SP 1213 Tue, Apr 05 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 171.57
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.79	Na2O	1.09	0.17	1.09
Mg	6.41	MgO	11.51	0.28	11.51
Al	0.66	Al2O3	1.51	0.13	1.51
Si	20.40	SiO2	54.61	0.72	54.61
K	1.23	K2O	2.59	0.17	2.59
Ca	4.54	CaO	11.35	0.36	11.35
Fe	4.88	Fe2O3	17.34	0.62	17.34
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	54.61	Si+4	7.9261	7.9261							
Al2O3	1.51	Al+3	0.2583	0.0739	**0.1844**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.34	Fe+3	0.0189			0.0189	0.0000				
MgO	11.51	Mg+2	2.4905			2.4905	**0.0000**				
MnO	0	Fe+2	2.0834			2.0834	**0.0000**				
CaO	11.35	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	1.09	Ca+2	1.7648					1.7648	0.0000		
K2O	2.59	Na+	0.3067					0.2352	**0.0716**	0.0716	0.0000
		K+	0.4795							0.4795	0.0000
Total	**100**		**Excess**	T site	**0.1844**	C site	**0.0000**	B site	**0.0715549**	A site	**0**
			Total	**8**		**4.7773**		**2.0000**		**0.5511**	**0.0000**
			%Fill	**100**		**95.5459**		**100**			

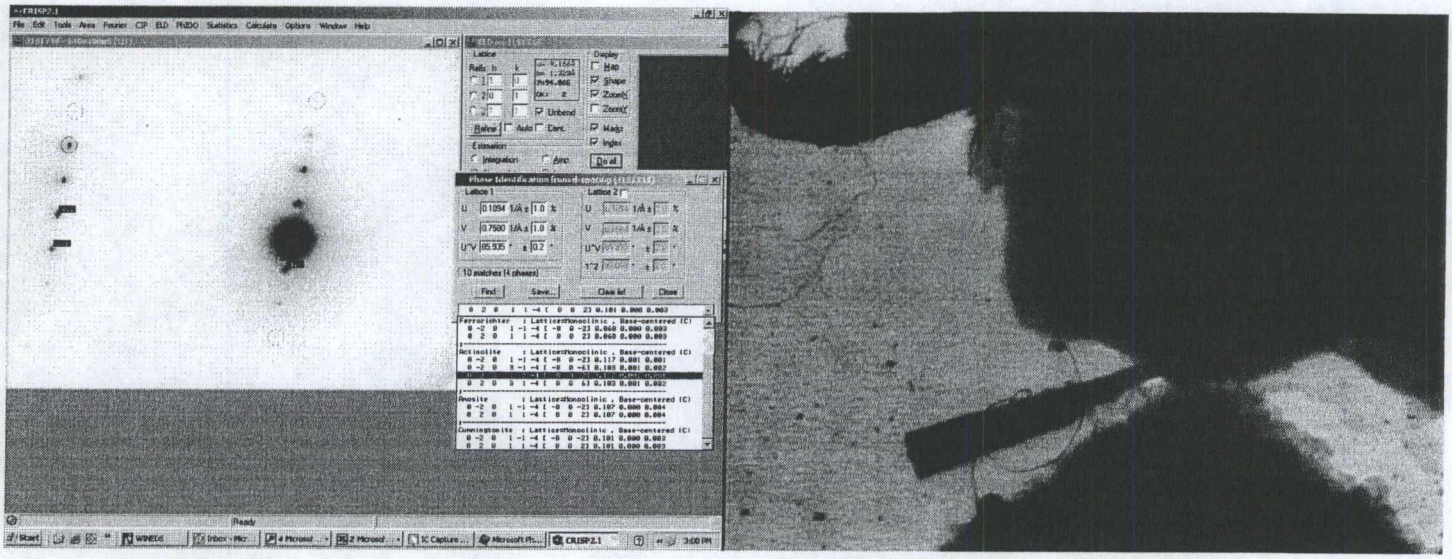
Prefix none
Name **edenite**
Modifier Potassian
Group **Calcic Amphibole**

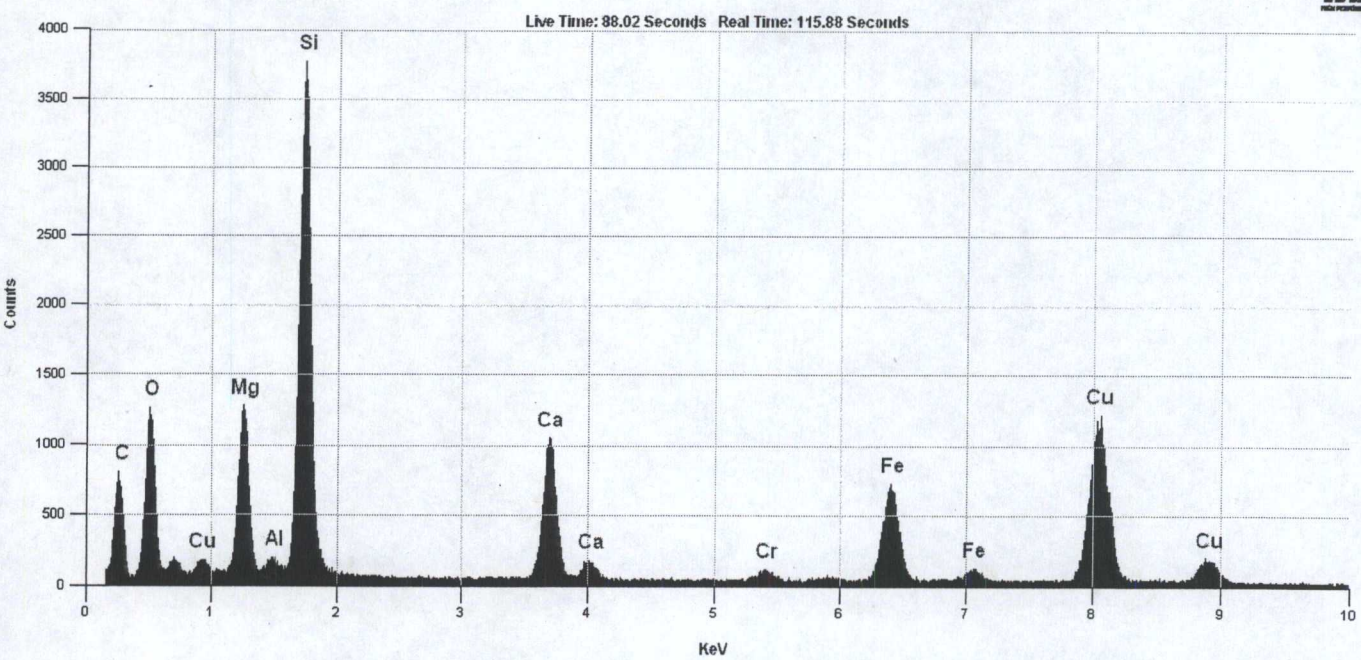
Sample # **041191-05-1213**

Values		**Satisfied Conditions**
(Ca,Na)@B	**2.00**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.24**	**Ca@B >= 1.5 and (Na,K)@A >= 0.5**
Ca@B	**1.76**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.55**	**Si > 6.5**
Mg/(Mg+Fe2)	**0.54**	
Si	**7.93**	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
[4 0 1]
041191-56, Neg#J1517





Title: 041191-56-SP1161 Time: 2:38:48 PM Date: Wed, Mar 16 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041191-56-SP1161 Wed, Mar 16 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 228.78
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.33	MgO	13.41	0.28	13.41
Al	0.21	Al2O3	0.50	0.10	0.50
Si	21.54	SiO2	58.75	0.68	58.75
Ca	5.49	CaO	13.97	0.36	13.97
Fe	3.69	Fe2O3	13.36	0.50	13.36
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.75	Si+4	8.0000	8.0000							
Al2O3	0.5	Al+3	0.1073	0.0000	**0.1073**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	13.36	Fe+3	0.0300			0.0300	0.0000				
MgO	13.41	Mg+2	2.8574			2.8574	**0.0000**				
MnO	0	Fe+2	1.5812			1.5812	**0.0000**				
CaO	13.97	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.1373					2.0000	0.1373		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**99.99**		**Excess**	T site	**0.1073**	C site	**0.0000**	B site	**0.137251**	A site	**0**
			Total	**8**		**4.5760**		**2.0000**		**0.0000**	**0.0000**
			%Fill	**100**		**91.5192**		**100**			

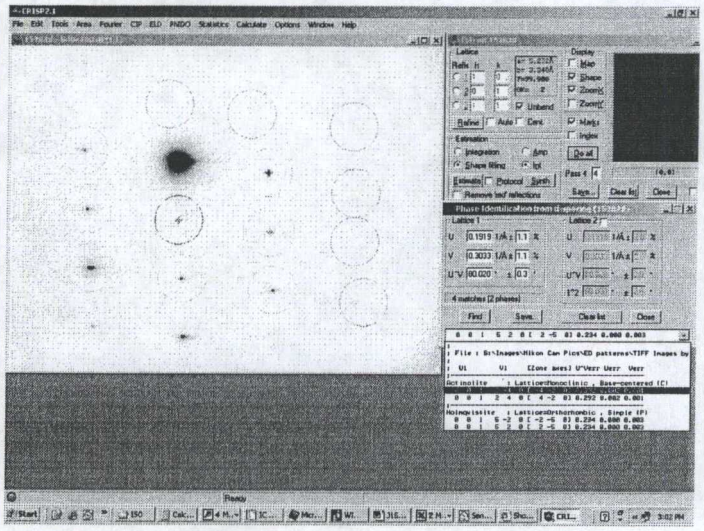
Prefix none
Name **actinolite**
Modifier none
Group **Calcic Amphibole**

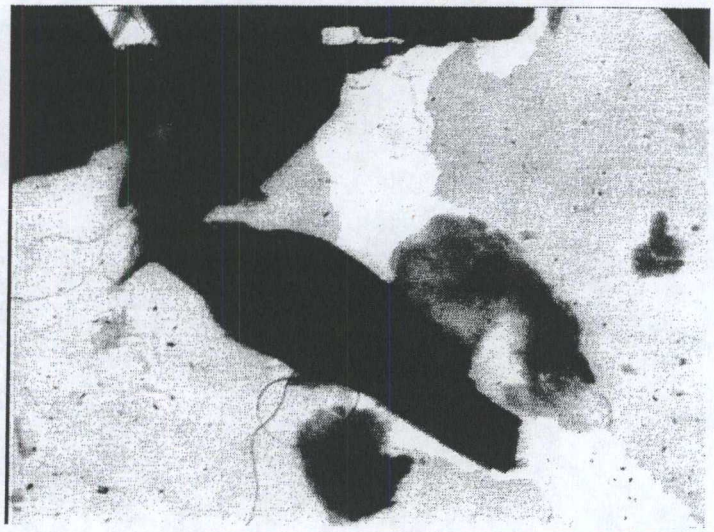
Sample # **041191-56-1161**

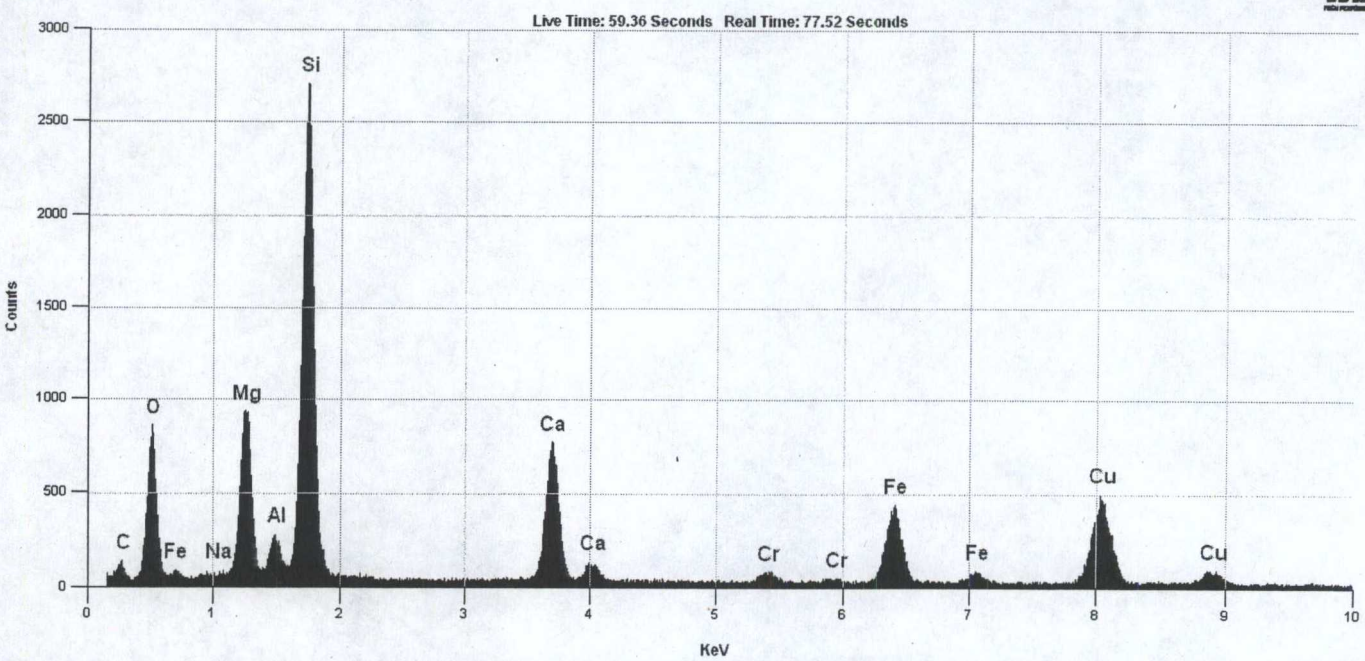
Values		**Satisfied Conditions**
(Ca,Na)@B	**2.00**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.00**	**Ca@B >= 1.5 and (Na,K)@A < 0.5**
Ca@B	**2.00**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.00**	**Si > 7.5**
Mg/(Mg+Fe2)	**0.64**	**(Mg/(Mg+Fe2))< 0.9**
Si	**8.00**	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
[2 1 0] Zone Axis
041191-05, Neg#J1578







Title: 041191-05-SP1212 Time: 2:35:29 PM Date: Tue, Apr 05 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041191-05-SP1212 Tue, Apr 05 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 172.29
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.16	Na2O	0.22	0.16	0.22
Mg	8.02	MgO	14.80	0.33	14.80
Al	0.73	Al2O3	1.71	0.15	1.71
Si	21.14	SiO2	58.17	0.83	58.17
Ca	5.40	CaO	13.87	0.43	13.87
Fe	3.07	Fe2O3	11.23	0.58	11.23
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.17	Si+4	8.0000	8.0000							
Al2O3	1.71	Al+3	0.2856	0.0000	**0.2856**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	11.23	Fe+3	0.0157			0.0157	0.0000				
MgO	14.8	Mg+2	3.0743			3.0743	**0.0000**				
MnO	0	Fe+2	1.2975			1.2975	**0.0000**				
CaO	13.87	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0.22	Ca+2	2.0711					2.0000	0.0711		
K2O	0	Na+	0.0745					0.0000	**0.0745**	0.0745	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.2856**	C site	**0.0000**	B site	**0.1456058**	A site	**0**
			Total	**8**		**4.6730**		**2.0000**		**0.0745**	**0.0000**
			%Fill	**100**		**93.4609**		**100**			

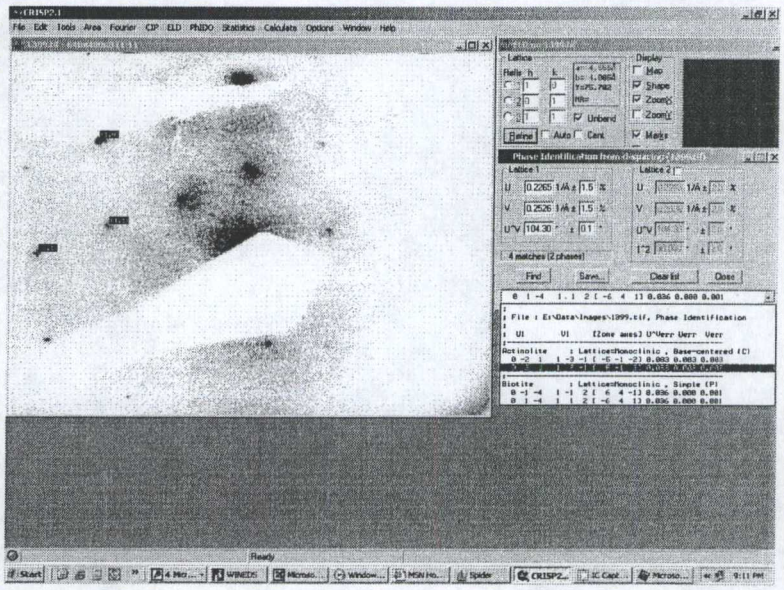
Prefix none
Name **actinolite**
Modifier none
Group **Calcic Amphibole**

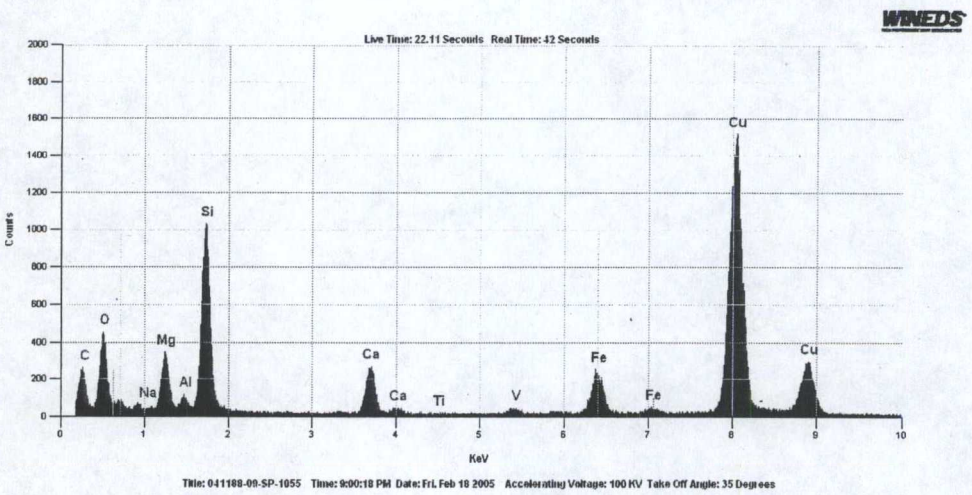
Sample # **041191-05-1212**

Values		**Satisfied Conditions**
(Ca,Na)@B	**2.00**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.00**	**Ca@B >= 1.5 and (Na,K)@A < 0.5**
Ca@B	**2.00**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.07**	**Si > 7.5**
Mg/(Mg+Fe2)	**0.70**	**(Mg/(Mg+Fe2))< 0.9**
Si	**8.00**	

Mineral Analysis Program (Version 5.0)

ACTINOLITE - Zone Axis [5 1 2]
041188-09 Neg# J1399
Gatan Image 2/18/05





Quantitative Analysis Results - Standardless Analysis :
041188-09-SP-1055 Fri, Feb 18 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 81.82
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.42	Na2O	0.58	0.33	0.58
Mg	6.83	MgO	12.35	0.56	12.35
Al	0.75	Al2O3	1.72	0.24	1.72
Si	20.56	SiO2	55.37	1.41	55.37
Ca	4.92	CaO	12.38	0.70	12.38
Fe	4.92	Fe2O3	17.61	1.38	17.61
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	55.37	Si+4	7.9201	7.9201							
Al2O3	1.72	Al+3	0.2899	0.0799	**0.2101**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.61	Fe+3	0.0190			0.0190	0.0000				
MgO	12.35	Mg+2	2.6336			2.6336	**0.0000**				
MnO	0	Fe+2	2.0852			2.0852	**0.0000**				
CaO	12.38	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0.58	Ca+2	1.8971					1.8971	0.0000		
K2O	0	Na+	0.1608					0.1029	**0.0580**	0.0580	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100.01**		**Excess**	T site	**0.2101**	C site	**0.0000**	B site	**0.0579834**	A site	**0**
			Total	**8**		**4.9479**		**2.0000**		**0.0580**	**0.0000**
			%Fill	**100**		**98.9572**		**100**			

Prefix none
Name **actinolite**
Modifier none
Group **Calcic Amphibole**

Sample # **041188-09-1055**

Values		**Satisfied Conditions**
(Ca,Na)@B	**2.00**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.10**	**Ca@B >= 1.5 and (Na,K)@A < 0.5**
Ca@B	**1.90**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.06**	**Si > 7.5**
Mg/(Mg+Fe2)	**0.56**	**(Mg/(Mg+Fe2))< 0.9**
Si	**7.92**	

Mineral Analysis Program (Version 5.0)

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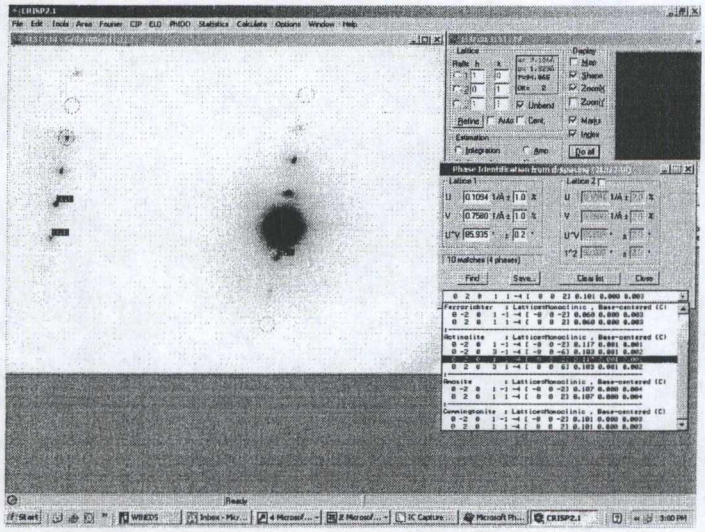
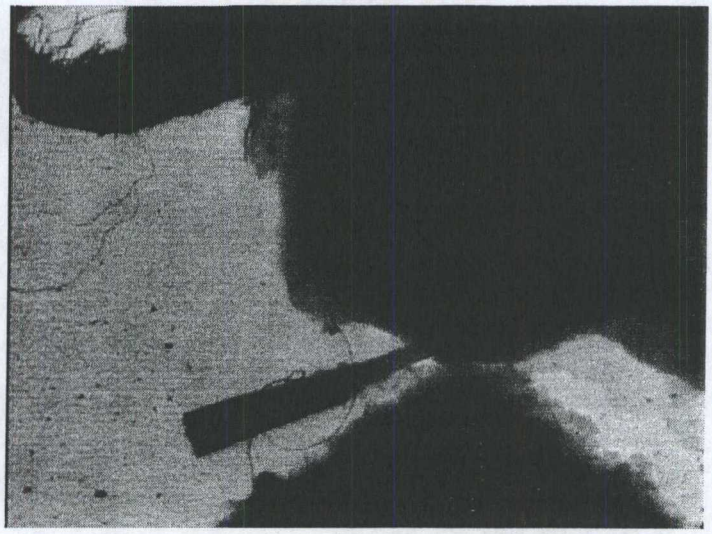
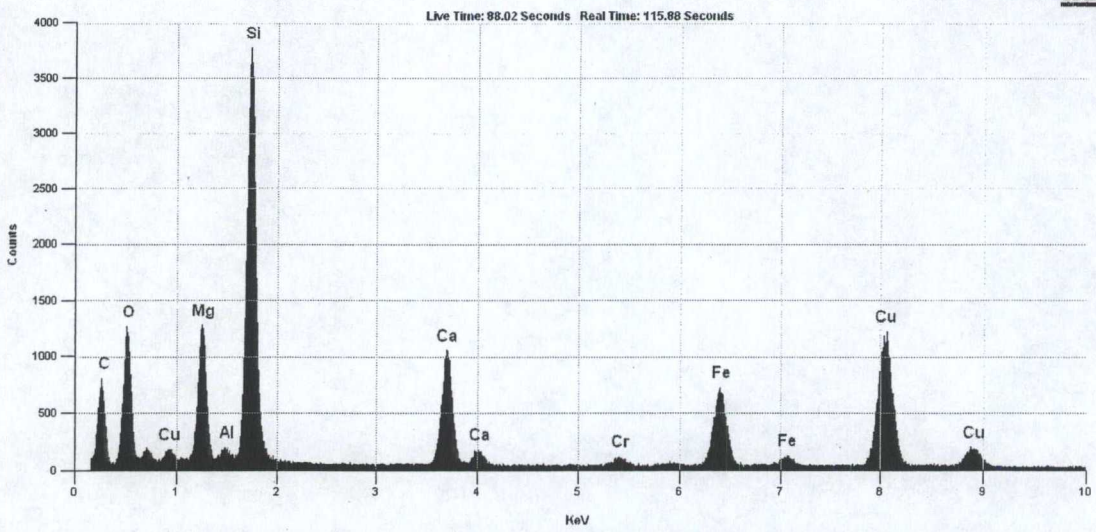
ACTINOLITE -- Zone Axis [4 0 1]
Neg#J1517 Job# 041191-56,
JEOL 1200EX -- Gatan Image







Quantitative Analysis Results - Standardless Analysis :
041191-56-SP1161 Wed, Mar 16 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 228.78
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.33	MgO	13.41	0.28	13.41
Al	0.21	Al2O3	0.50	0.10	0.50
Si	21.54	SiO2	58.75	0.68	58.75
Ca	5.49	CaO	13.97	0.36	13.97
Fe	3.69	Fe2O3	13.36	0.50	13.36
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.75	Si+4	8.0000	8.0000							
Al2O3	0.58	Al+3	0.1196	0.0000	**0.1196**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	13.36	Fe+3	0.0294			0.0294	0.0000				
MgO	13.41	Mg+2	2.8529			2.8529	**0.0000**				
MnO	0	Fe+2	1.5787			1.5787	**0.0000**				
CaO	13.97	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.1339					2.0000	0.1339		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100.07		Excess	T site	**0.1196**	C site	**0.0000**	B site	**0.1339438**	A site	**0**
			Total	8		4.5807		2.0000		0.0000	0.0000
			%Fill	100		91.6134		100			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # 041191-56-1161

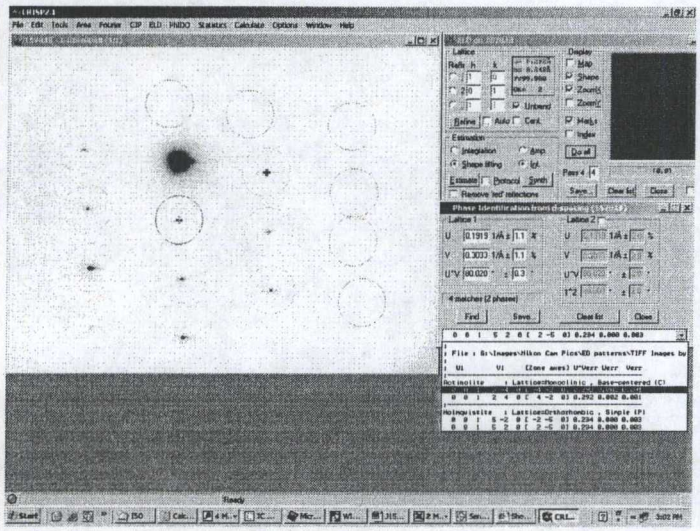
Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.64	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

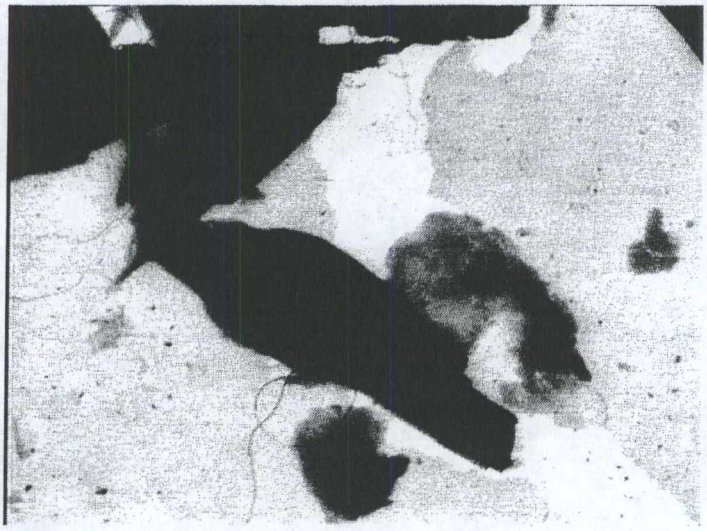
Mineral Analysis Program (Version 5.0)

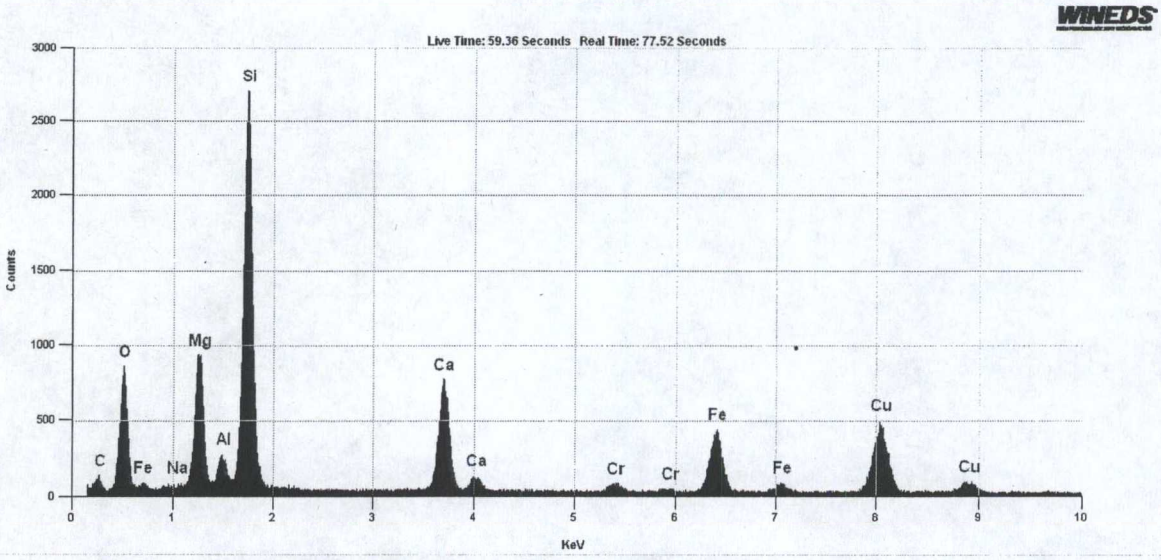
Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

ACTINOLITE -- Zone Axis [2 1 0]
Neg#J1578 Job#041191-05
JEOL 1200EX - Gatan Image







Title: 041191-05-SP1212 Time: 2:35:29 PM Date: Tue, Apr 05 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041191-05-SP1212 Tue, Apr 05 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 172.29
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.16	Na2O	0.22	0.16	0.22
Mg	8.02	MgO	14.80	0.33	14.80
Al	0.73	Al2O3	1.71	0.15	1.71
Si	21.14	SiO2	58.17	0.83	58.17
Ca	5.40	CaO	13.87	0.43	13.87
Fe	3.07	Fe2O3	11.23	0.58	11.23
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.17	Si+4	8.0000	8.0000							
Al2O3	1.71	Al+3	0.2856	0.0000	**0.2856**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	11.23	Fe+3	0.0157			0.0157	0.0000				
MgO	14.8	Mg+2	3.0743			3.0743	**0.0000**				
MnO	0	Fe+2	1.2975			1.2975	**0.0000**				
CaO	13.87	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0.22	Ca+2	2.0711					2.0000	0.0711		
K2O	0	Na+	0.0745					0.0000	**0.0745**	0.0745	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.2856**	C site	**0.0000**	B site	**0.1456058**	A site	**0**
			Total	**8**		**4.6730**		**2.0000**		**0.0745**	**0.0000**
			%Fill	**100**		**93.4609**		**100**			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # 041191-05-1212

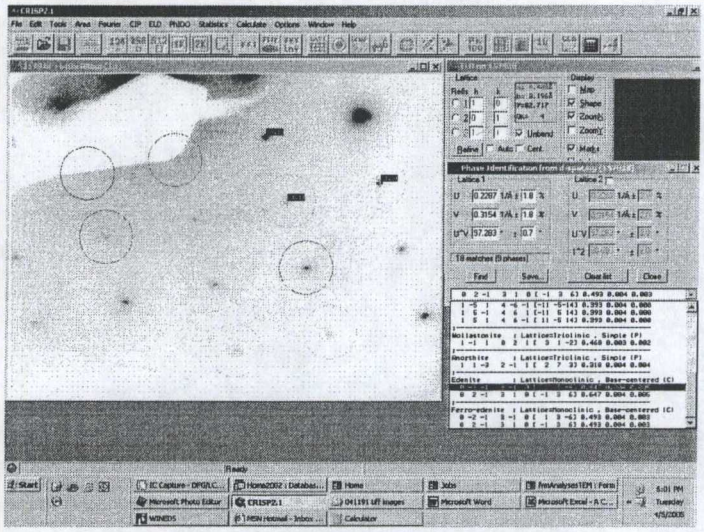
Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.07	Si > 7.5
Mg/(Mg+Fe2)	0.70	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

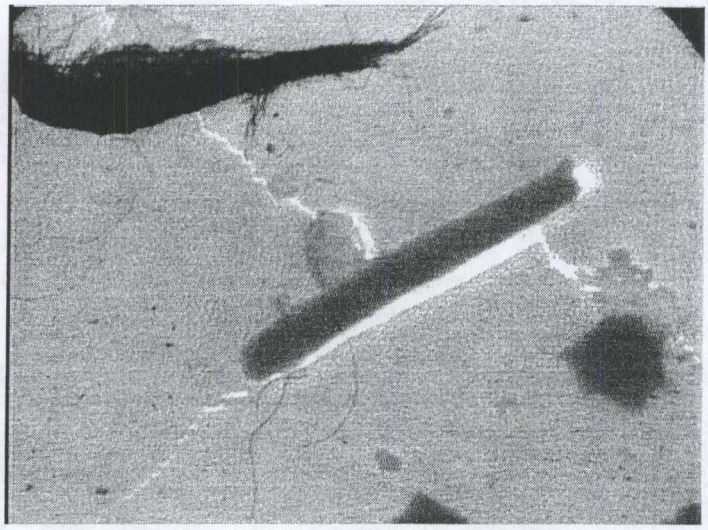
Mineral Analysis Program (Version 5.0)

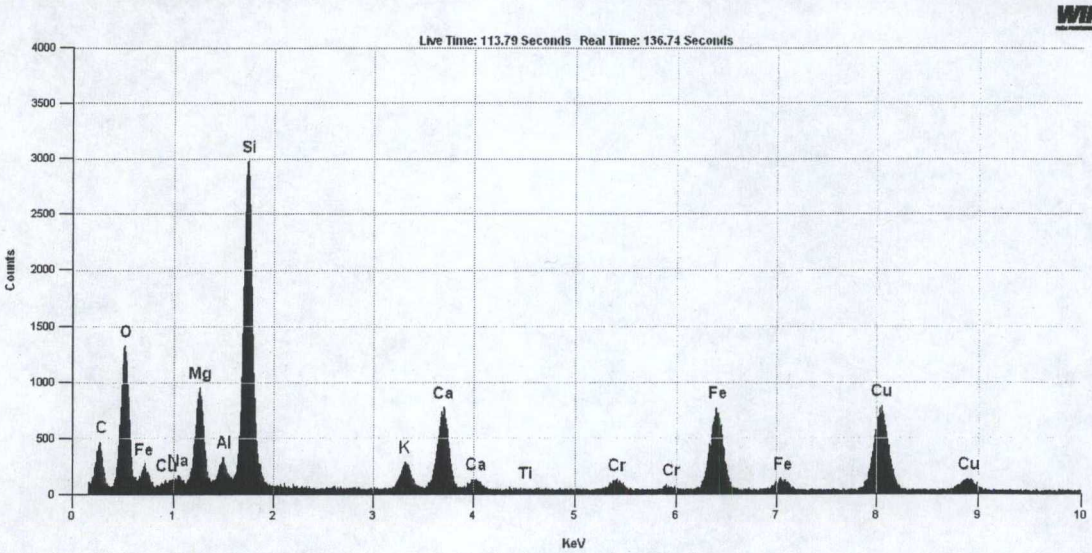
Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

EDENITE - Zone Axis [1 3 -6]
Neg# J1579 Job# 041191-05
JEOL 1200EX - Gatan Image







Quantitative Analysis Results - Standardless Analysis :
041191-05 SP 1213 Tue, Apr 05 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 171.57
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.79	Na2O	1.09	0.17	1.09
Mg	6.41	MgO	11.51	0.28	11.51
Al	0.66	Al2O3	1.51	0.13	1.51
Si	20.40	SiO2	54.61	0.72	54.61
K	1.23	K2O	2.59	0.17	2.59
Ca	4.54	CaO	11.35	0.36	11.35
Fe	4.88	Fe2O3	17.34	0.62	17.34
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	54.61	Si+4	7.9261	7.9261							
Al2O3	1.51	Al+3	0.2583	0.0739	**0.1844**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.34	Fe+3	0.0189			0.0189	0.0000				
MgO	11.51	Mg+2	2.4905			2.4905	**0.0000**				
MnO	0	Fe+2	2.0834			2.0834	**0.0000**				
CaO	11.35	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	1.09	Ca+2	1.7648					1.7648	0.0000		
K2O	2.59	Na+	0.3067					0.2352	**0.0716**	0.0716	0.0000
		K+	0.4795							0.4795	0.0000
Total	**100**		**Excess**	T site	**0.1844**	C site	**0.0000**	B site	**0.0715549**	A site	**0**
			Total	**8**		**4.7773**		**2.0000**		**0.5511**	**0.0000**
			%Fill	**100**		**95.5459**		**100**			

Prefix none
Name **edenite**
Modifier Potassian
Group **Calcic Amphibole**

Sample # **041191-05-1213**

Values		**Satisfied Conditions**
(Ca,Na)@B	**2.00**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.24**	**Ca@B >= 1.5 and (Na,K)@A >= 0.5**
Ca@B	**1.76**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.55**	**Si > 6.5**
Mg/(Mg+Fe2)	**0.54**	
Si	**7.93**	

Mineral Analysis Program (Version 5.0)

The hard copy of the additional information for this data package including:

-QC Summary
-QC Package (microscope logs and calibrations)
-Sample preparation logs

can be found in the file for Data Package 041172R07.

The information can also be found on the CD under

From Lab\Data Package\QC and Additional Information

TRILLIUM INC.

Data Validation Report

TDD No:	09-04-01-0011
PAN:	001275.0440.01TA
Site:	El Dorado Hills
Laboratory:	Lab/Cor, Inc.
Reviewer:	Denise A. Shepperd, Trillium, Inc.
Date:	May 23, 2005 Revised August 11, 2005 Revised September 26, 2005

I. Case Summary

SAMPLE INFORMATION:

Asbestos Samples: CC2-L6-11CC-100504; CC2-L6-1CC-100504; CC2-L6-2CC-100504; CC2-L6-3CC-100504; CC5-H6-1CP-100604; CC5-H6-2CP-100604; CC5-L6-2CB-100604; NFB-H2-3FD-100504; SFBA-L2-1CH-100504; SFBA-L2-2CH-100504; SFBB-H2-1FD-100604; SFBB-H2-2FD-100604; SFBB-L2-2CH-100604; SFBC-H2-2FD-100604; NFB-L2-15CH-100504; NFB-L2-1CH-100504; NFB-L2-4CH-100504; NFB-L2-5CH-100504; SFBC-L2-1CH-100604; SFBC-L2-3CH-100604; SFBC-L2-4CH-100604; SFBC-L2-5CH-100604; SFBA-H2-2PG-100504; SFBA-H2-4PG-100504; SFBB-H2-2PG-100604; SFBB-H2-4PG-100604; SFBB-H2-5PG-100604; and SFBC-H2-4PG-100604

Matrix:	28 Air samples
Analysis:	Asbestos by Transmission Electron Microscopy
Collection Dates:	October 5 and 6, 2004
Sample Receipt Date:	October 9, 2004
Filter Preparation Date:	January 7 through March 30, 2005
Grid Preparation Date:	January 21 through March 30,2005
TEM Analysis Dates:	February 6 through April 1, 2005
Analytical Method:	ISO Method 13794

FIELD QC:

Field

F

Co

Equipn

Me

Field

This is a revised Report

TABLES:

041188R15TEM

TRILLIUM INC.

Data Validation Report

TDD No:	09-04-01-0011
PAN:	001275.0440.01TA
Site:	El Dorado Hills
Laboratory:	Lab/Cor, Inc.
Reviewer:	Denise A. Shepperd, Trillium, Inc.
Date:	May 23, 2005 Revised August 11, 2005 Revised September 26, 2005

I. Case Summary

SAMPLE INFORMATION:

Asbestos Samples:	CC2-L6-11CC-100504; CC2-L6-1CC-100504; CC2-L6-2CC-100504; CC2-L6-3CC-100504; CC5-H6-1CP-100604; CC5-H6-2CP-100604; CC5-L6-2CB-100604; NFB-H2-3FD-100504; SFBA-L2-1CH-100504; SFBA-L2-2CH-100504; SFBB-H2-1FD-100604; SFBB-H2-2FD-100604; SFBB-L2-2CH-100604; SFBC-H2-2FD-100604; NFB-L2-15CH-100504; NFB-L2-1CH-100504; NFB-L2-4CH-100504; NFB-L2-5CH-100504; SFBC-L2-1CH-100604; SFBC-L2-3CH-100604; SFBC-L2-4CH-100604; SFBC-L2-5CH-100604; SFBA-H2-2PG-100504; SFBA-H2-4PG-100504; SFBB-H2-2PG-100604; SFBB-H2-4PG-100604; SFBB-H2-5PG-100604; and SFBC-H2-4PG-100604
Matrix:	28 Air samples
Analysis:	Asbestos by Transmission Electron Microscopy
Collection Dates:	October 5 and 6, 2004
Sample Receipt Date:	October 9, 2004
Filter Preparation Date:	January 7 through March 30, 2005
Grid Preparation Date:	January 21 through March 30,2005
TEM Analysis Dates:	February 6 through April 1, 2005
Analytical Method:	ISO Method 13794

FIELD QC:

Field Trip Blanks (ZB):	NFB-L2-1ZB-10050; SFBB-L2-1ZB-10060; NYB-L2-1ZB-10070; JEG-L2-1ZB-10070; SRA-1ZB-1008004
Filter Blanks (FB):	SFBA-L2-FB-10050; JEG-L2-FB-101004; NRA-FB-101004
Column Balnk (FB):	NRA-FB-101005
Equipment Blanks (EB):	
Method Blank (MB):	4 glass filter blanks
Field Duplicates (D1):	Not Identified

TABLES:

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Inorganic Data Review

SAMPLING ISSUES:

No chain of custody documents were provided in the data package. Chain of custody documentation that included these samples was provided on 5/4/05 by electronic transfer, at the request of the validator.

Sample SFBA-H2-4PG-100504 was rejected at preparation because the filter was blown out. This sample was not prepared for analysis.

VALIDATION PARAMETERS AND COMMENTS:

I. Holding Times, Preservation and Sample Integrity

This parameter is evaluated to ensure that sample custody is documented from collection through analysis, samples are analyzed within the recommended holding time, and that no alteration in sample content has occurred during sample shipment, handling, and storage.

There is no established holding time or storage condition for asbestos samples.

A total of six COC records were used to document the collection of these samples. Only the first of these six records was signed and dated as relinquished. Five of the six records were signed and dated on receipt at the laboratory. The sixth record had no signatures, dates, or times for relinquishment or receipt of samples.

II. Calibration

The analyses of materials of known content ensures that identification and quantitation of analytes will be accurate for all samples. Review of the documentation provided for appropriate calibration determines whether or not the analytical results reported by the laboratory are valid and supported by the data.

The data deliverables for this project were included in multiple data packages in several shipments. Instrument calibration documentation was provided in a separate data package in association with the site sample data packages in this shipment and included camera and screen magnification calibration (performed 4/7/05 to 4/13/05), camera length and constant calibration (performed 4/5/05 to 4/14/05), EDS peak resolution check (performed on 4/7/05), and maintenance logs for both instruments used for analyses, covering the months of March and April of 2005.

A form entitled "Microscope Based Quality Control" for the month of April 2005 was included. This form listed the various instrument calibration parameters, required frequencies, dates performed, and results. According to this form, k-factor calibration was performed most recently on the two microscopes on 1/11/05 and 3/14/05; beam dose was calibrated on 2/9/05 and 3/18/05.

No documentation of grid opening size was provided.

Documentation to support the identification and quantitation in the site samples in these data packages was provided separately with a previous shipment of data packages from the same project, and included the following:

A letter representing documentation of an NVLAP laboratory site assessment conducted on 11/7/03 was included in the data package. The letter, dated 5/10/04, indicated that the laboratory met the on-site assessment requirements.

Results and evaluator notes and tables were included for an NISTIR 5351 analysis of an inter-laboratory QC sample. The laboratory's raw data were compiled and assessed by Batta Labs. Analysts were identified by initials and included two of the analysts' initials documented with this sample set. "DW" and "KM" performed these PE sample analyses, "JH" and "TM" were not represented. According to the assessor's notes, the sample included chrysotile fibers and structures and the laboratory's results were within NVLAP and NISTIR 5351acceptance limits. No raw data were provided for this QC sample in the original data package. Raw data were provided under separate cover, at the request of the validator.

Results for a New York State Department of Health Environmental Laboratory Approval Program proficiency test, conducted between 9/7/04 and 11/9/04, were also included. The proficiency samples included asbestos in air. The laboratory's results were satisfactory for all four of the air sample categories. Actinolite and amosite fiber types were identified and counts were acceptable, according to the data sheet. No raw data were provided for this proficiency sample. Upon request, the laboratory provided raw data documenting the identification of actinolite and amosite asbestos on 1/27/05, in conjunction with the validation of a previous shipment of data packages. These data were inserted by the validator into the QC data package provided, as supporting data, with the previous shipment of data packages.

Documentation for a round-robin sample analyzed in the fall of 2004, by three separate laboratories, as part of the NVLAP requirements, was also included in the QC data package. The documentation included raw count sheets and reported results, as well as comparison with other laboratories' results. Results for all parameters were acceptable. According to the documentation, the only analyst who participated in these analyses was "DW."

Based on the fact that the laboratory demonstrated proficiency in the performance evaluation (PE) analyses performed in the third quarter of 2004, and that these PE samples included the two predominant asbestos types detected in this field sample set, no action was taken by the validator.

III. Blanks

Sample matrices known to be devoid of the analytes of interest (method blanks) are prepared and analyzed with each analytical batch. Evaluation of this parameter ensures that contamination introduced during preparation and analyses is not attributed to the field samples.

Other blanks may be generated in the field or laboratory to ensure that no contamination is introduced during sampling and/or storage.

No field-generated blanks were included with this data set.

The laboratory preparation list and log indicated that one laboratory preparation filter blank was prepared and analyzed by the indirect method in association with the entire 70-sample set (041172, 041188, 041191, 141210, and 050680). No raw data were supplied for this blank, but a value of "0" structures detected was present on the QC summary form. According to the prep sheets, this blank was prepared on 1/13/05 (ashed and "hydrolyzed") and 3/16/05 (grid preparation). This blank would be an indicator of any contamination present in the blank filters used for preparation and for any contamination present in the prep lab environment on 1/13/05 and 3/16/05, but it does not address contamination issues for the dates on which the samples in this data set (041188) were prepared, which ranged from January 7, 1005 until March 30, 2005, and did not include either of the blank prep dates.

The indirect method used (ISO 13794), recommends analyzing a filter blank and a beaker blank with each set of samples prepared. In addition, it is recommended that the laboratory include an unused filter for preparation with every microscope slide containing sample filters that is prepared. None of these blanks were documented with this data set. Without blanks it is not possible to assess the presence or absence of laboratory contamination or its impact on the site sample results.

The laboratory had prepared blanks with the preparation and analyses of samples in this data set. At the client's request the laboratory analyzed a percentage of the prepared blanks. Data for these blanks were received by the validator on July 6, 2005. Four filter blanks, five field trip blanks, four glass filter blanks, and one column blank were prepared and analyzed as laboratory blanks. No asbestos structures were detected in any of the blanks.

IV. Spiked Samples

The analytes of interest are added in known concentrations to like-matrix blanks or authentic field samples before preparation. This parameter is evaluated in order to assess the laboratory's ability to preserve and recover the compounds of interest.

The analytical method does not require laboratory spiked sample analyses. It is recommended by the validator that some type of laboratory prepared or purchased spiked analyses be performed with each analytical sample batch.

The project requirements specified that results from the most recent inter-laboratory study would be acceptable as a laboratory control sample (LCS) for these data. This requirement was met by the laboratory and results, reported with previous data submissions for this project, for the inter-laboratory study sample were acceptable for all air sample parameters (see Section I). The data user should note, however, that no reference material was prepared and analyzed by the indirect method (ISO 13794) employed for the preparation and analyses of the site samples. This method is used when filter loading is too high to allow the use of the direct method (ISO 10312) and depends on recovery of material from the air-sampling filter, resuspension in solution, effecting a dilution, and redistribution on a secondary filter which is then prepared as for the direct TEM analysis method. Because there are additional steps involved in the preparation, there are additional error factors introduced. It is recommended that a reference material be prepared and analyzed by the indirect method so that performance can be tracked by the laboratory for support of field sample analyses by this procedure.

V. Duplicate/Replicate Samples

Results for duplicate/replicate samples are evaluated to assess the laboratory's precision for the analytes of interest in the applicable sample matrix. For asbestos analyses, duplicate and replicate measurements take the form of a combination of variables which include the preparation of the grid, the choice of grid openings to be analyzed, and the analyst performing the counting and identification of structures. For the indirect method the variables should also include preparation of the filter itself.

The laboratory included all of the QC samples prepared from all of the field sample sets in this shipment in a separate data package under a separate report number (050580).

Two analysts, JH and TM, not represented in the PE sample analyses included with the data packages for this project, did perform intra-laboratory replicate and duplicate analyses on associated field samples. Results for these QC analyses for these analysts were within the sample-specific acceptance limits stipulated by the method.

The quality assurance project plan (QAPP) requires five types of laboratory duplicate/replicate analyses, each to be performed at a rate of 5% (one for every twenty) of the field samples. Based on the total of samples prepared by the indirect method and included in all of the data packages in this shipment combined (70 samples), four or more of each of these QC sample pairs were required (a total of 20 QC sample pairs).

The laboratory compared the primary asbestos structure count for each of the QC samples prepared and analyzed. Results for all of the duplicate/replicate pair types were evaluated based on 95% confidence limits determined from the original sample count. Results for all of the reported QC samples were within the laboratory's calculated limits.

One of the samples (NFB-H2-3FD-100504) in this data set (041188) was prepared for and/or analyzed as three different QC pairs. According to the sample preparation list and log, three different indirect preparations were done with this sample. It is not clear from the documentation at which point in the preparation process the duplication was produced. The sample is listed under the original sample identification and also twice under the number assigned for the separate QC sample batch. It appears that the sample collection filter was cut into pieces before ashing and these separate pieces were processed as duplicates.

Results for the three separate preparations fell within the 95% confidence limits generated from the original sample count of 9 structures. The sample was also analyzed as a replicate pair in which the same analyst recounted the same grid openings. According to the count sheets for the original sample and this replicate count, structures were only detected in both the sample and QC replicate in three grid openings. A total of 19 grid openings in the two counts did not agree. In 13 grid openings in the original sample count there were no structures detected but asbestos structures were detected in the second count. In six other grid openings in the original count, structures were detected, but not in these same grid openings in the recount. Nonetheless, the overall count for the two analyses did fall within the 95% confidence limits.

In summary, the laboratory analyzed a total of 11 QC sample pairs from three of the five associated data sets. A summary of the laboratory QC samples analyzed is as follows:

Replicate analyses:

- Two samples were analyzed as replicates, wherein a different preparation was analyzed by the same analyst.

Duplicate analyses:

- Three samples were analyzed as duplicates, wherein the same grid openings were recounted by a different analyst;
- Three samples were analyzed as duplicates, wherein different grid openings were selected for counting by a different analyst; and
- Three samples were analyzed as duplicates, wherein a different analyst counted a different preparation.

No samples were analyzed as replicates, wherein the same analyst re-counts the same sample a second time counting different grid openings.

According to the preparation list and log, two samples (the one from 041188 and one from 041191) were re-prepared on 3/29/05 and 3/30/05. The second preparation of these two samples involved ashing the filters for two hours, according to notes on the prep list. It was assumed by the validator that these were the only samples which were carried through all of the filtering and grid preparation steps. Other QC samples listed as repreps were assumed to be additional grid preparations from the same filter only. The length of filter ashing time for the original sample preparations was not recorded.

Agreement between the results for all of the 11 sample QC pairs analyzed in conjunction with the combined project-related laboratory batches in four of the required categories were acceptable. In addition, four samples were re-analyzed by the same analyst counting the same grid openings. These results were also acceptable according to the laboratory-specified limits. This category was not included as a requirement in the project QAPP.

The data user is cautioned that although the laboratory QC counts met the specified criteria, the acceptance range includes as much as a three-fold difference in asbestos concentrations for these samples. This range of variability is applicable to all asbestos results in this data set.

According to the QAPP provided with the data packages, field duplicates were required at a rate of 10% of field samples. Field duplicate pairs were not identified or evaluated as part of this validation effort.

VI. Identification

Identification of asbestos structures and fibers is dependent on sample preparation techniques, analyst training, instrument operation, and data interpretation. Comparison with results from known standards is used to evaluate the accuracy of the structure identification for field samples.

Actinolite, chrysotile, tremolite, edenite, and winchite were identified in the field and QC samples. According to the report forms provided in the QC package included with a previous data package shipment for the project, the laboratory correctly identified actinolite, chrysotile, and amosite in PE sample analyses performed in the third quarter of 2004. Comparison of identification between the various analysts, grid opening, and preparations combinations that make up the daily QC for these analyses, included separately with this shipment of data packages, were within acceptance limits. Therefore; based on the documentation provided, fiber and structure identifications for chrysotile, amosite, and actinolite were determined to be valid as reported. The identifications of tremolite, edenite, and winchite were supported with EDS confirmation, however, no documentation of reference materials for these mineral was included.

VII. Quantitation and Reported Detection Limits

Raw data documentation is reviewed to ensure that all reported results and detection limits are correctly calculated, accurately reported, and supported by the raw data.

With two exceptions, results for asbestos categories, fiber density, analytical sensitivity, and detection limits were correctly calculated and accurately reported by the laboratory and reported values were verified by the validator using the information included on the reporting forms and the chain of custody records.

Using the information provided in the data package the validator could not reproduce the results reported by the laboratory for sample CC5-H6-2CP-100604. The dilution factor listed on the prep log for this sample was four, however, using this value, the validator's calculated results were twice those of the laboratory. The laboratory was contacted and the data were rechecked. A correct dilution factor of four was verified by the laboratory on 9/23 and a corrected report form and EDD were supplied to the validator electronically.

VIII. System Performance

This parameter is evaluated to ensure that the laboratory analytical systems were functioning properly at the time of analyses and that methodology appropriate to the analyses were followed.

The analytical systems appear to have been working satisfactorily and to have been calibrated properly at the time of these analyses, based on the documentation provided in this data package shipment. Grid opening calibration and spot size calibration were not documented

IX. Documentation

Data and documentation completeness is critical in providing support for the reported results. Problems encountered with the nature or quality of the data package documentation are addressed.

For the sample prepared and analyzed as three QC pairs for this data set, a grid opening count of 84 was listed on the QC summary sheet. The count sheet for this sample documented that 85 grid openings were actually counted. Reported values were calculated using the correct number of grid openings, therefore, no action was required by the validator.

The sample identification for NFB-H2-3FD-100504 on the Form I matched the COC record. However, where listed in the QC data package narrative, this sample was identified as NFB-H2-3FD-100505, NFB-H2-3FD-100506, and NFB-H2-3FD-100507.

The grid opening counts documented on the sample preparation log did not match the number on the count sheets and Form Is for 22 of the samples in this data set. The grid openings listed on the Form Is matched the count sheet documentation in all cases, therefore, these were assumed to be the correct number and no action was taken by the validator on this issue.

No raw data were provided in the data package for the proficiency samples analyzed in support of the laboratory's accreditation. Raw data to support the identification of actinolite and amosite were received upon request on 1/26/05 in conjunction with validation of a previous shipment of data from the same project.

Raw data for chrysotile fibers identified in only selected field samples from this data set were provided. A listing of fiber verifications was provided and included at least one structure from each of the samples in which chrysotile was identified.

Count sheets included in the data package are computer generated forms. No date of the actual count is presented on these forms. If there is a corresponding bench sheet from which these forms are prepared, these should be supplied as a part of the data package. It is recommended that analyst's intials and date of count be added to the documentation.

The legend for the count sheets, which defines the codes used for the structure counts lists PSCH as the code for protocol chrysotile structures. The code appearing on the count sheets for this category is PCAS.

COMMENTS:

A. Using the information provided in the data package the validator could not reproduce the results reported by the laboratory for sample CC5-H6-2CP-100604. The dilution factor listed on the prep log for this sample was four, however, using this value, the validator's calculated results were twice those of the laboratory. The laboratory was contacted and the data were rechecked. A correct dilution factor of four was verified by the laboratory on 9/23 and a corrected report form and EDD were supplied to the validator electronically.

The laboratory reported results, analytical sensitivity, and detection limits to three significant figures. The data user should be aware that because all of these values are based on the counting of whole asbestos structures, the appropriate number of significant figures will be limited by the structure count. A total count of eight fibers will warrant results with only one significant figure; a count of 12 will warrant two, etc. Because the analytical sensitivity and detection limit are calculated from an assumed single asbestos structure, only one significant figure is accurate for these values, rather than the three reported by the laboratory. A second significant figure, if used, is considered estimated. The validator-calculated results, analytical sensitivities, and detection limits varied from the laboratory values in many cases, however, these discrepancies appeared to be due to rounding. The validator did not adjust the laboratory results to reduce the number of significant figures.

It is recommended that complete instrument calibration documentation be provided with every data package to fully support the site sample results.

The data results tables included as Table 1A include only the primary and total asbestos structure counts. Counts for individual categories required by the project Scope of Work are presented in the associated electronic data deliverables (EDD) tables.

This report was prepared according to the specifications of the analytical method, ISO Method 13794 " Ambient air - Determination of asbestos fibres - Indirect-transfer transmission electron microscopy method," the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," 10/99, and Trillium, Inc.'s SOP No. 0497-06A, for Validation of Analytical Data: Inorganic Analytes.

TRILLIUM INC.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," 2/94.

U The analyte was analyzed for, but was not detected above the level of the reported value. The reported value is either the sample quantitation limit or the sample detection limit.

L Indicates results which fall between the sample detection limit and the CRDL. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.

J The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.

R The data are unusable. The analyte was analyzed for, but the presence or absence of the analyte cannot be verified.

UJ A combination of the "U" and "J" qualifier. The analyte was analyzed for but was not detected. The reported value is an estimate and may be inaccurate or imprecise.

Table 1A
Analytical Results with Qualifications
Asbestos in Air Samples

C-sample-num	Type	# of structures counted	Concentrations	Units	Analytical sensitivity (AS)	Lower	Upper	Val Adj Result Conc.	Val Qual	Val Adj AS	Val Units	Val Comm
CC2-L6-11CC-100504	Primary Asbestos Structures	102	0.177	structures/cc	0.00174	0.1416	0.2123				structures/cc	
CC2-L6-11CC-100504	Total Asbestos Structures	104	0.181	structures/cc	0.00174	0.1416	0.2123				structures/cc	
CC2-L6-1CC-100504	Primary Asbestos Structures	103	0.14	structures/cc	0.00135	0.1099	0.1647				structures/cc	
CC2-L6-1CC-100504	Total Asbestos Structures	103	0.14	structures/cc	0.00135	0.1099	0.1647				structures/cc	
CC2-L6-2CC-100504	Primary Asbestos Structures	100	0.14	structures/cc	0.00140	0.1140	0.1708				structures/cc	
CC2-L6-2CC-100504	Total Asbestos Structures	100	0.14	structures/cc	0.00140	0.1140	0.1708				structures/cc	
CC2-L6-3CC-100504	Primary Asbestos Structures	101	0.173	structures/cc	0.00172	0.1400	0.2098				structures/cc	
CC2-L6-3CC-100504	Total Asbestos Structures	101	0.173	structures/cc	0.00172	0.1400	0.2098				structures/cc	
CC5-H6-1CP-100604	Primary Asbestos Structures	101	0.146	structures/cc	0.00144	0.1172	0.1757				structures/cc	
CC5-H6-1CP-100604	Total Asbestos Structures	101	0.146	structures/cc	0.00144	0.1172	0.1757				structures/cc	
CC5-H6-2CP-100604	Primary Asbestos Structures	61	0.12	structures/cc	0.00196	0.0917	0.1540				structures/cc	A
CC5-H6-2CP-100604	Total Asbestos Structures	61	0.12	structures/cc	0.00196	0.0917	0.1540				structures/cc	A
CC5-L6-2CB-100604	Primary Asbestos Structures	56	0.055	structures/cc	0.000983	0.0416	0.0715				structures/cc	
CC5-L6-2CB-100604	Total Asbestos Structures	57	0.056	structures/cc	0.000983	0.0425	0.0726				structures/cc	
NFB-H2-3FD-100504	Primary Asbestos Structures	9	0.009	structures/cc	0.00100	0.0041	0.0171				structures/cc	
NFB-H2-3FD-100504	Total Asbestos Structures	9	0.009	structures/cc	0.00100	0.0041	0.0171				structures/cc	
SFBA-L2-1CH-100504	Primary Asbestos Structures	65	0.065	structures/cc	0.00100	0.0502	0.0828				structures/cc	
SFBA-L2-1CH-100504	Total Asbestos Structures	65	0.065	structures/cc	0.00100	0.0502	0.0828				structures/cc	

Table 1A
Analytical Results with Qualifications
Asbestos in Air Samples

C-sample-num	Type	# of structures counted	Concentrations	Units	Analytical sensitivity (AS)	Lower	Upper	Val Adj Result Conc.	Val Qual	Val Adj AS	Val Units	Val Comm
SFBA-L2-2CH-100504	Primary Asbestos Structures	100	0.184	structures/cc	0.00184	0.1498	0.2245				structures/cc	
SFBA-L2-2CH-100504	Total Asbestos Structures	100	0.184	structures/cc	0.00184	0.1498	0.2245				structures/cc	
SFBB-H2-1FD-100604	Primary Asbestos Structures	101	0.1	structures/cc	0.00099	0.0806	0.1208				structures/cc	
SFBB-H2-1FD-100604	Total Asbestos Structures	102	0.101	structures/cc	0.00099	0.0806	0.1208				structures/cc	
SFBB-H2-2FD-100604	Primary Asbestos Structures	101	0.136	structures/cc	0.00135	0.1099	0.1647				structures/cc	
SFBB-H2-2FD-100604	Total Asbestos Structures	101	0.136	structures/cc	0.00135	0.1099	0.1647				structures/cc	
SFBB-L2-2CH-100604	Primary Asbestos Structures	83	0.083	structures/cc	0.00100	0.0661	0.1030				structures/cc	
SFBB-L2-2CH-100604	Total Asbestos Str	83	0.083	structures/cc	0.00100	0.0661	0.1030				structures/cc	
SFBC-H2-2FD-100604	Primary Asbestos Structures	85	0.085	structures/cc	0.00100	0.0679	0.1050				structures/cc	
SFBC-H2-2FD-100604	Total Asbestos Structures	85	0.085	structures/cc	0.00100	0.0679	0.1050				structures/cc	
NFB-L2-15CH-100504	Primary Asbestos Structures	103	0.194	structures/cc	0.00188	0.1530	0.2294				structures/cc	
NFB-L2-15CH-100504	Total Asbestos Structures	103	0.194	structures/cc	0.00188	0.1530	0.2294				structures/cc	
NFB-L2-1CH-100504	Primary Asbestos Structures	102	0.135	structures/cc	0.00133	0.1083	0.1623				structures/cc	
NFB-L2-1CH-100504	Total Asbestos Structures	100	0.133	structures/cc	0.00133	0.1083	0.1623				structures/cc	
NFB-L2-4CH-100504	Primary Asbestos Structures	102	0.2	structures/cc	0.00196	0.1595	0.2391				structures/cc	
NFB-L2-4CH-100504	Total Asbestos Structures	102	0.2	structures/cc	0.00196	0.1595	0.2391				structures/cc	
NFB-L2-5CH-100504	Primary Asbestos Structures	101	0.104	structures/cc	0.00103	0.0838	0.1257				structures/cc	
NFB-L2-5CH-100504	Total Asbestos Structures	102	0.105	structures/cc	0.00103	0.0838	0.1257				structures/cc	

Table 1A
Analytical Results with Qualifications
Asbestos in Air Samples

C-sample-num	Type	# of structures counted	Concentrations	Units	Analytical sensitivity (AS)	Lower	Upper	Val Adj Result Conc.	Val Qual	Val Adj AS	Val Units	Val Comm
SFBC-L2-1CH-100604	Primary Asbestos Structures	105	0.226	structures/cc	0.00215	0.1750	0.2623				structures/cc	
SFBC-L2-1CH-100604	Total Asbestos Structures	105	0.226	structures/cc	0.00215	0.1750	0.2623				structures/cc	
SFBC-L2-3CH-100604	Primary Asbestos Structures	100	0.127	structures/cc	0.00127	0.1034	0.1549				structures/cc	
SFBC-L2-3CH-100604	Total Asbestos Structures	100	0.127	structures/cc	0.00127	0.1034	0.1549				structures/cc	
SFBC-L2-4CH-100604	Primary Asbestos Structures	102	0.22	structures/cc	0.00216	0.1758	0.2635				structures/cc	
SFBC-L2-4CH-100604	Total Asbestos Structures	102	0.22	structures/cc	0.00216	0.1758	0.2635				structures/cc	
SFBC-L2-5CH-100604	Primary Asbestos Structures	100	0.132	structures/cc	0.00132	0.1074	0.1610				structures/cc	
SFBC-L2-5CH-100604	Total Asbestos Structures	101	0.133	structures/cc	0.00132	0.1074	0.1610				structures/cc	
SFBA-H2-2PG-100504	Primary Asbestos Structures	78	0.0235	structures/cc	0.00030	0.0186	0.0293				structures/cc	
SFBA-H2-2PG-100504	Total Asbestos Structures	82	0.0247	structures/cc	0.00030	0.0196	0.0307				structures/cc	
SFBB-H2-2PG-100604	Primary Asbestos Structures	100	0.0751	structures/cc	0.00075	0.0611	0.0916				structures/cc	
SFBB-H2-2PG-100604	Total Asbestos Structures	100	0.0751	structures/cc	0.00075	0.0611	0.0916				structures/cc	
SFBB-H2-4PG-100604	Primary Asbestos Structures	101	0.158	structures/cc	0.00156	0.1270	0.1903				structures/cc	
SFBB-H2-4PG-100604	Total Asbestos Structures	101	0.158	structures/cc	0.00156	0.1270	0.1903				structures/cc	
SFBB-H2-5PG-100604	Primary Asbestos Structures	102	0.161	structures/cc	0.00158	0.1286	0.1928				structures/cc	
SFBB-H2-5PG-100604	Total Asbestos Structures	101	0.16	structures/cc	0.00158	0.1286	0.1928				structures/cc	
SFBC-H2-4PG-100604	Primary Asbestos Structures	55	0.0555	structures/cc	0.00101	0.0418	0.0723				structures/cc	
SFBC-H2-4PG-100604	Total Asbestos Structures	64	0.0646	structures/cc	0.00101	0.0498	0.0825				structures/cc	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Thursday, April 14, 2005 Lab/Cor Report Number: *041188R15*

Howard Edwards
Ecology and Environment, Inc.
350 Sansome
Ste 300
San Francisco CA 94104

Phone: 415-981-2811
Fax: 415-981-0801

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT
Project Number: 0440.01CP-0012
Client Reference:
Sample Receipt Date: 10/9/2004

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Analysis #	Client Sample # and Description	Analysis Type and Notes
Batch #: B4771		
S3-A1	CC2-L6-11CC-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S5-A1	CC2-L6-1CC-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S6-A1	CC2-L6-2CC-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S7-A1	CC2-L6-3CC-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S8-A1	CC5-H6-1CP-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S9-A1	CC5-H6-2CP-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S12-A1	CC5-L6-2CB-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S15-A1	NFB-H2-3FD-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S19-A1	SFBA-L2-1CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S20-A1	SFBA-L2-2CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S25-A1	SFBB-H2-1FD-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S27-A1	SFBB-H2-2FD-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S31-A1	SFBB-L2-2CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S37-A1	SFBC-H2-2FD-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S39-A1	NFB-L2-15CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S40-A1	NFB-L2-1CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S43-A1	NFB-L2-4CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading

S44-A1	NFB-L2-5CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S45-A1	SFBC-L2-1CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S47-A1	SFBC-L2-3CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S48-A1	SFBC-L2-4CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S49-A1	SFBC-L2-5CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S86-A1	SFBA-H2-2PG-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S89-A1	SFBA-H2-4PG-100504	ISO 13794, indirect: Rejected at prep - filter blown out
S98-A1	SFBB-H2-2PG-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S101-A1	SFBB-H2-4PG-100604	ISO 13794, indirect: Rejected at prep for loose particulate
S103-A1	SFBB-H2-5PG-100604	ISO 13794, indirect: Rejected at prep for loose particulate
S111-A1	SFBC-H2-4PG-100604	ISO 13794, indirect: Rejected at prep for loose particulate

ISO 13794, indirect

Preparation and analysis of the above samples was conducted in accordance with the ISO method 13794 (Indirect) for the identification of asbestos. Briefly, a portion of the original filter was ashed and treated with acetic acid to isolate the material of interest. The samples were then aliquoted onto lab filters which were collapsed with acetone, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in acetone until cleared of filter debris.

TEM analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The redeposit samples were analyzed at various approximate screen magnifications of 5,000x for PCM equivalent structures, 10,000x for asbestos structures greater than 5.0 micrometer lengths, and 20,000x for asbestos structures greater than 0.5 micrometer lengths. An accelerating voltage of 100 KV was applied. The sizing of grid openings was performed on the microscope at a magnification of approximately 550X.

Disclaimer

This test report relates only to the items tested in this report. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with analytical services.

Sincerely,

John Harris, M.P.H.
Laboratory Director

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S3 A1
Client Sample No. CC2-L6-11CC-100504
Description
Analysis Date 2/8/2005
Analyst KM

Volume (L) 902.5
No. of Grid Openings 34
Filter Area (mm2) 193
Area Analyzed (mm2) 0.493
Analytical Sens. (struc/cc) 0.00174
Dectection Limit. (struc/cc) 0.00519

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	207.0	0.177	0.141 - 0.211 (Poisson)	102
Total Asbestos Structures	211.1	0.181	0.141 - 0.211 (Poisson)	104
Asbestos Structures > 5um	38.6	0.0330	0.0199 - 0.0515	19
Asbestos Fibers and Bundles > 5um	30.4	0.0260	0.0146 - 0.0430	15
PCM Equivalent Fibers-US	30.4	0.0260	0.0146 - 0.0430	15
PCM Equivalent Structures-ISO	24.4	0.0208	0.0108 - 0.0364	12
PROTOCOL ASB STRUCS 5-10	4.1	0.00347	0.00 - 0.0109	2
PROTOCOL ASB STRUCS >10	0.0	<0.00519	0.00 - 0.00519	0
PROTOCOL ASB STRUCS TOTAL	4.1	0.00347	0.00 - 0.0109	2
PROTOCOL CHRYS STRUCS 5-10	2.0	0.00174	0.00 - 0.00823	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00519	0.00 - 0.00519	0
PROTOCOL CHRYS STRUCS TOTAL	2.0	0.00174	0.00 - 0.00823	1
PROTOCOL AMPH STRUCS 5-10	2.0	0.00174	0.00 - 0.00823	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00519	0.00 - 0.00519	0
PROTOCOL AMPH STRUCS TOTAL	2.0	0.00174	0.00 - 0.00823	1
AHERA-like Total Structures 3:1	207.0	0.177	0.141 - 0.211 (Poisson)	102
AHERA-like Asb Strucs >5 and 3:1	38.6	0.0330	0.0199 - 0.0515	19
AHERA-like Asb Strucs 5 - 10 and 3:1	32.5	0.0278	0.0159 - 0.0451	16
AHERA-like Asb Strucs >10 and 3:1	6.1	0.00521	0.00 - 0.0135	3
Total Other Amphibole Strucs 3:1	0.0	<0.00519	0.00 - 0.00519	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00519	0.00 - 0.00519	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00519	0.00 - 0.00519	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00519	0.00 - 0.00519	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S5 A1
Client Sample No. CC2-L6-1CC-100504
Description
Analysis Date 2/9/2005
Analyst KM

Volume (L) 893.84
No. of Grid Openings 44
Filter Area (mm2) 193
Area Analyzed (mm2) 0.638
Analytical Sens. (struc/cc) 0.00135
Dectection Limit. (struc/cc) 0.00405

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	161.6	0.140	0.110 - 0.165 (Poisson)	103
Total Asbestos Structures	161.6	0.140	0.110 - 0.165 (Poisson)	103
Asbestos Structures > 5um	28.2	0.0244	0.0145 - 0.0385	18
Asbestos Fibers and Bundles > 5um	23.5	0.0203	0.0114 - 0.0335	15
PCM Equivalent Fibers-US	22.0	0.0190	0.0104 - 0.0318	14
PCM Equivalent Structures-ISO	7.8	0.00677	0.00220 - 0.0158	5
PROTOCOL ASB STRUCS 5-10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL ASB STRUCS >10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL ASB STRUCS TOTAL	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00405	0.00 - 0.00405	0
AHERA-like Total Structures 3:1	161.6	0.140	0.110 - 0.165 (Poisson)	103
AHERA-like Asb Strucs >5 and 3:1	28.2	0.0244	0.0145 - 0.0385	18
AHERA-like Asb Strucs 5 - 10 and 3:1	15.7	0.0135	0.00650 - 0.0249	10
AHERA-like Asb Strucs >10 and 3:1	12.5	0.0108	0.00468 - 0.0214	8
Total Other Amphibole Strucs 3:1	0.0	<0.00405	0.00 - 0.00405	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00405	0.00 - 0.00405	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00405	0.00 - 0.00405	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00405	0.00 - 0.00405	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S6 A1
Client Sample No. CC2-L6-2CC-100504
Description
Analysis Date 2/11/2005
Analyst KM

Volume (L) 908.8
No. of Grid Openings 42
Filter Area (mm2) 193
Area Analyzed (mm2) 0.609
Analytical Sens. (struc/cc) 0.00140
Dectection Limit. (struc/cc) 0.00417

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	164.3	0.140	0.114 - 0.170 (Poisson)	100
Total Asbestos Structures	164.3	0.140	0.114 - 0.170 (Poisson)	100
Asbestos Structures > 5um	19.7	0.0167	0.00866 - 0.0293	12
Asbestos Fibers and Bundles > 5um	16.4	0.0140	0.00669 - 0.0257	10
PCM Equivalent Fibers-US	14.8	0.0126	0.00574 - 0.0238	9
PCM Equivalent Structures-ISO	13.1	0.0112	0.00482 - 0.0220	8
PROTOCOL ASB STRUCS 5-10	1.6	0.00140	0.00 - 0.00662	1
PROTOCOL ASB STRUCS >10	0.0	<0.00417	0.00 - 0.00417	0
PROTOCOL ASB STRUCS TOTAL	1.6	0.00140	0.00 - 0.00662	1
PROTOCOL CHRYS STRUCS 5-10	1.6	0.00140	0.00 - 0.00662	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00417	0.00 - 0.00417	0
PROTOCOL CHRYS STRUCS TOTAL	1.6	0.00140	0.00 - 0.00662	1
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00417	0.00 - 0.00417	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00417	0.00 - 0.00417	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00417	0.00 - 0.00417	0
AHERA-like Total Structures 3:1	164.3	0.140	0.114 - 0.170 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	19.7	0.0167	0.00866 - 0.0293	12
AHERA-like Asb Strucs 5 - 10 and 3:1	13.1	0.0112	0.00482 - 0.0220	8
AHERA-like Asb Strucs >10 and 3:1	6.6	0.00558	0.00152 - 0.0143	4
Total Other Amphibole Strucs 3:1	0.0	<0.00417	0.00 - 0.00417	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00417	0.00 - 0.00417	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00417	0.00 - 0.00417	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00417	0.00 - 0.00417	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S7 A1
Client Sample No. CC2-L6-3CC-100504
Description
Analysis Date 2/14/2005
Analyst KM

Volume (L) 900.33
No. of Grid Openings 69
Filter Area (mm2) 193
Area Analyzed (mm2) 1.00
Analytical Sens. (struc/cc) 0.00172
Dectection Limit. (struc/cc) 0.00513

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	101.0	0.173	0.140 - 0.209 (Poisson)	101
Total Asbestos Structures	101.0	0.173	0.140 - 0.209 (Poisson)	101
Asbestos Structures > 5um	25.0	0.0429	0.0277 - 0.0633	25
Asbestos Fibers and Bundles > 5um	22.0	0.0377	0.0236 - 0.0571	22
PCM Equivalent Fibers-US	20.0	0.0343	0.0210 - 0.0530	20
PCM Equivalent Structures-ISO	16.0	0.0274	0.0157 - 0.0446	16
PROTOCOL ASB STRUCS 5-10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL ASB STRUCS >10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL ASB STRUCS TOTAL	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00513	0.00 - 0.00513	0
AHERA-like Total Structures 3:1	101.0	0.173	0.140 - 0.209 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	25.0	0.0429	0.0277 - 0.0633	25
AHERA-like Asb Strucs 5 - 10 and 3:1	12.0	0.0206	0.0106 - 0.0360	12
AHERA-like Asb Strucs >10 and 3:1	13.0	0.0223	0.0119 - 0.0381	13
Total Other Amphibole Strucs 3:1	0.0	<0.00513	0.00 - 0.00513	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00513	0.00 - 0.00513	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00513	0.00 - 0.00513	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00513	0.00 - 0.00513	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S8 A1
Client Sample No. CC5-H6-1CP-100604
Description
Analysis Date 2/14/2005
Analyst KM

Volume (L) 2464.87
No. of Grid Openings 15
Filter Area (mm2) 193
Area Analyzed (mm2) 0.217
Analytical Sens. (struc/cc) 0.00144
Dectection Limit. (struc/cc) 0.00431

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	464.7	0.146	0.117 - 0.175 (Poisson)	101
Total Asbestos Structures	464.7	0.146	0.117 - 0.175 (Poisson)	101
Asbestos Structures > 5um	69.0	0.0216	0.0121 - 0.0357	15
Asbestos Fibers and Bundles > 5um	32.2	0.0101	0.00405 - 0.0208	7
PCM Equivalent Fibers-US	27.6	0.00865	0.00317 - 0.0188	6
PCM Equivalent Structures-ISO	32.2	0.0101	0.00405 - 0.0208	7
PROTOCOL ASB STRUCS 5-10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL ASB STRUCS >10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL ASB STRUCS TOTAL	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00431	0.00 - 0.00431	0
AHERA-like Total Structures 3:1	464.7	0.146	0.117 - 0.175 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	69.0	0.0216	0.0121 - 0.0357	15
AHERA-like Asb Strucs 5 - 10 and 3:1	55.2	0.0173	0.00894 - 0.0302	12
AHERA-like Asb Strucs >10 and 3:1	13.8	0.00432	0.00 - 0.0112	3
Total Other Amphibole Strucs 3:1	0.0	<0.00431	0.00 - 0.00431	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00431	0.00 - 0.00431	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00431	0.00 - 0.00431	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00431	0.00 - 0.00431	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R16

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - REVISED FINAL

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S9 A1	**Volume (L)**	2465.37
Client Sample No.	CC5-H6-2CP-100604	**No. of Grid Openings**	22
Description		**Filter Area (mm2)**	193
Analysis Date	2/18/2005	**Area Analyzed (mm2)**	0.319
Analyst	KM	**Analytical Sens. (struc/cc)**	0.00196
		Dectection Limit. (struc/cc)	0.00587

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	191.4	0.120	0.0917 - 0.154 (Poisson)	61
Total Asbestos Structures	191.4	0.120	0.0917 - 0.154 (Poisson)	61
Asbestos Structures > 5um	22.0	0.0138	0.00553 - 0.0283	7
Asbestos Fibers and Bundles > 5um	18.8	0.0118	0.00433 - 0.0257	6
PCM Equivalent Fibers-US	15.7	0.00982	0.00319 - 0.0229	5
PCM Equivalent Structures-US	12.5	0.00786	0.00214 - 0.0201	4
PROTOCOL ASB STRUCS 5-10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL ASB STRUCS >10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL ASB STRUCS TOTAL	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00587	0.00 - 0.00587	0
AHERA-like Total Asb Structures 3:1	191.4	0.120	0.0917 - 0.154 (Poisson)	61
AHERA-like Asb Strucs >5 and 3:1	22.0	0.0138	0.00553 - 0.0283	7
AHERA-like Asb Strucs 5 - 10 and 3:1	18.8	0.0118	0.00433 - 0.0257	6
AHERA-like Asb Strucs >10 and 3:1	3.1	0.00196	0.00 - 0.00931	1
Other Total Amphibole Strucs 3:1	0.0	<0.00587	0.00 - 0.00587	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00587	0.00 - 0.00587	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00587	0.00 - 0.00587	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00587	0.00 - 0.00587	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S12 A1
Client Sample No. CC5-L6-2CB-100604
Description
Analysis Date 2/14/2005
Analyst DW

Volume (L) 903.74
No. of Grid Openings 60
Filter Area (mm2) 193
Area Analyzed (mm2) 0.869
Analytical Sens. (struc/cc) 0.000983
Dectection Limit. (struc/cc) 0.00294

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	64.4	0.0550	0.0416 - 0.0715 (Poisson)	56
Total Asbestos Structures	65.6	0.0560	0.0424 - 0.0726 (Poisson)	57
Asbestos Structures > 5um	8.1	0.00688	0.00276 - 0.0142	7
Asbestos Fibers and Bundles > 5um	5.8	0.00491	0.00160 - 0.0115	5
PCM Equivalent Fibers-US	3.5	0.00295	0.00 - 0.00761	3
PCM Equivalent Structures-ISO	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL ASB STRUCS 5-10	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL ASB STRUCS >10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL ASB STRUCS TOTAL	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL CHRYS STRUCS 5-10	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL CHRYS STRUCS TOTAL	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00294	0.00 - 0.00294	0
AHERA-like Total Structures 3:1	64.4	0.0550	0.0416 - 0.0715 (Poisson)	56
AHERA-like Asb Strucs >5 and 3:1	8.1	0.00688	0.00276 - 0.0142	7
AHERA-like Asb Strucs 5 - 10 and 3:1	3.5	0.00295	0.00 - 0.00761	3
AHERA-like Asb Strucs >10 and 3:1	4.6	0.00393	0.00107 - 0.0101	4
Total Other Amphibole Strucs 3:1	0.0	<0.00294	0.00 - 0.00294	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00294	0.00 - 0.00294	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00294	0.00 - 0.00294	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00294	0.00 - 0.00294	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S15 A1
Client Sample No. NFB-H2-3FD-100504
Description
Analysis Date 2/15/2005
Analyst TM

Volume (L) 605.59
No. of Grid Openings 88
Filter Area (mm2) 193
Area Analyzed (mm2) 1.28
Analytical Sens. (struc/cc) 0.00100
Dectection Limit. (struc/cc) 0.00299

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	7.1	0.00900	0.00411 - 0.0171	9
Total Asbestos Structures	7.1	0.00900	0.00411 - 0.0171	9
Asbestos Structures > 5um	3.1	0.00400	0.00109 - 0.0102	4
Asbestos Fibers and Bundles > 5um	2.4	0.00300	0.00 - 0.00775	3
PCM Equivalent Fibers-US	2.4	0.00300	0.00 - 0.00775	3
PCM Equivalent Structures-ISO	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS 5-10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL ASB STRUCS TOTAL	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS 5-10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS TOTAL	0.8	0.00100	0.00 - 0.00474	1
AHERA-like Total Structures 3:1	7.1	0.00900	0.00411 - 0.0171	9
AHERA-like Asb Strucs >5 and 3:1	3.1	0.00400	0.00109 - 0.0102	4
AHERA-like Asb Strucs 5 - 10 and 3:1	0.8	0.00100	0.00 - 0.00474	1
AHERA-like Asb Strucs >10 and 3:1	2.4	0.00300	0.00 - 0.00775	3
Total Other Amphibole Strucs 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S19 A1
Client Sample No. SFBA-L2-1CH-100504
Description
Analysis Date 2/6/2005
Analyst JH

Volume (L) 311.64
No. of Grid Openings 171
Filter Area (mm2) 193
Area Analyzed (mm2) 2.48
Analytical Sens. (struc/cc) 0.00100
Dectection Limit. (struc/cc) 0.00299

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	26.2	0.0650	0.0502 - 0.0828 (Poisson)	65
Total Asbestos Structures	26.2	0.0650	0.0502 - 0.0828 (Poisson)	65
Asbestos Structures > 5um	6.5	0.0160	0.00914 - 0.0260	16
Asbestos Fibers and Bundles > 5um	4.8	0.0120	0.00620 - 0.0210	12
PCM Equivalent Fibers-US	4.4	0.0110	0.00549 - 0.0197	11
PCM Equivalent Structures-ISO	2.0	0.00500	0.00162 - 0.0117	5
PROTOCOL ASB STRUCS 5-10	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL ASB STRUCS TOTAL	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS 5-10	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL CHRYS STRUCS TOTAL	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00299	0.00 - 0.00299	0
AHERA-like Total Structures 3:1	26.2	0.0650	0.0502 - 0.0828 (Poisson)	65
AHERA-like Asb Strucs >5 and 3:1	6.5	0.0160	0.00914 - 0.0260	16
AHERA-like Asb Strucs 5 - 10 and 3:1	2.0	0.00500	0.00162 - 0.0117	5
AHERA-like Asb Strucs >10 and 3:1	4.4	0.0110	0.00549 - 0.0197	11
Total Other Amphibole Strucs 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S20 A1	**Volume (L)**	308.4
Client Sample No.	SFBA-L2-2CH-100504	**No. of Grid Openings**	94
Description		**Filter Area (mm2)**	193
Analysis Date	2/18/2005	**Area Analyzed (mm2)**	1.36
Analyst	KM	**Analytical Sens. (struc/cc)**	0.00184
		Dectection Limit. (struc/cc)	0.00550

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	73.4	0.184	0.150 - 0.224 (Poisson)	100
Total Asbestos Structures	73.4	0.184	0.150 - 0.224 (Poisson)	100
Asbestos Structures > 5um	13.2	0.0331	0.0196 - 0.0523	18
Asbestos Fibers and Bundles > 5um	11.7	0.0294	0.0168 - 0.0478	16
PCM Equivalent Fibers-US	11.0	0.0276	0.0154 - 0.0455	15
PCM Equivalent Structures-ISO	10.3	0.0257	0.0141 - 0.0432	14
PROTOCOL ASB STRUCS 5-10	0.7	0.00184	0.00 - 0.00871	1
PROTOCOL ASB STRUCS >10	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL ASB STRUCS TOTAL	0.7	0.00184	0.00 - 0.00871	1
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL AMPH STRUCS 5-10	0.7	0.00184	0.00 - 0.00871	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL AMPH STRUCS TOTAL	0.7	0.00184	0.00 - 0.00871	1
AHERA-like Total Structures 3:1	73.4	0.184	0.150 - 0.224 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	13.2	0.0331	0.0196 - 0.0523	18
AHERA-like Asb Strucs 5 - 10 and 3:1	11.0	0.0276	0.0154 - 0.0455	15
AHERA-like Asb Strucs >10 and 3:1	2.2	0.00551	0.00 - 0.0142	3
Total Other Amphibole Strucs 3:1	0.0	<0.00550	0.00 - 0.00550	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00550	0.00 - 0.00550	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00550	0.00 - 0.00550	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00550	0.00 - 0.00550	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S25 A1
Client Sample No. SFBB-H2-1FD-100604
Description
Analysis Date 2/17/2005
Analyst JH

Volume (L) 625.58
No. of Grid Openings 86
Filter Area (mm2) 193
Area Analyzed (mm2) 1.25
Analytical Sens. (struc/cc) 0.000990
Dectection Limit. (struc/cc) 0.00296

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	81.1	0.100	0.0806 - 0.120 (Poisson)	101
Total Asbestos Structures	81.9	0.101	0.0806 - 0.120 (Poisson)	102
Asbestos Structures > 5um	23.3	0.0287	0.0192 - 0.0412	29
Asbestos Fibers and Bundles > 5um	17.7	0.0218	0.0137 - 0.0330	22
PCM Equivalent Fibers-US	16.0	0.0198	0.0121 - 0.0306	20
PCM Equivalent Structures-ISO	12.8	0.0158	0.00906 - 0.0257	16
PROTOCOL ASB STRUCS 5-10	1.6	0.00198	0.00 - 0.00624	2
PROTOCOL ASB STRUCS >10	0.8	0.000990	0.00 - 0.00469	1
PROTOCOL ASB STRUCS TOTAL	2.4	0.00297	0.00 - 0.00767	3
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00296	0.00 - 0.00296	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00296	0.00 - 0.00296	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00296	0.00 - 0.00296	0
PROTOCOL AMPH STRUCS 5-10	1.6	0.00198	0.00 - 0.00624	2
PROTOCOL AMPH STRUCS >10	0.8	0.000990	0.00 - 0.00469	1
PROTOCOL AMPH STRUCS TOTAL	2.4	0.00297	0.00 - 0.00767	3
AHERA-like Total Structures 3:1	81.1	0.100	0.0806 - 0.120 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	23.3	0.0287	0.0192 - 0.0412	29
AHERA-like Asb Strucs 5 - 10 and 3:1	15.2	0.0188	0.0113 - 0.0294	19
AHERA-like Asb Strucs >10 and 3:1	8.0	0.00990	0.00475 - 0.0182	10
Total Other Amphibole Strucs 3:1	0.0	<0.00296	0.00 - 0.00296	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00296	0.00 - 0.00296	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00296	0.00 - 0.00296	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00296	0.00 - 0.00296	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S27 A1	**Volume (L)**	626.25
Client Sample No.	SFBB-H2-2FD-100604	**No. of Grid Openings**	63
Description		**Filter Area (mm2)**	193
Analysis Date	2/18/2005	**Area Analyzed (mm2)**	0.913
Analyst	JH	**Analytical Sens. (struc/cc)**	0.00135
		Dectection Limit. (struc/cc)	0.00404

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	110.6	0.136	0.110 - 0.164 (Poisson)	101
Total Asbestos Structures	110.6	0.136	0.110 - 0.164 (Poisson)	101
Asbestos Structures > 5um	29.6	0.0365	0.0240 - 0.0530	27
Asbestos Fibers and Bundles > 5um	23.0	0.0284	0.0176 - 0.0433	21
PCM Equivalent Fibers-US	19.7	0.0243	0.0144 - 0.0384	18
PCM Equivalent Structures-ISO	19.7	0.0243	0.0144 - 0.0384	18
PROTOCOL ASB STRUCS 5-10	6.6	0.00810	0.00297 - 0.0176	6
PROTOCOL ASB STRUCS >10	0.0	<0.00404	0.00 - 0.00404	0
PROTOCOL ASB STRUCS TOTAL	6.6	0.00810	0.00297 - 0.0176	6
PROTOCOL CHRYS STRUCS 5-10	3.3	0.00405	0.00 - 0.0105	3
PROTOCOL CHRYS STRUCS >10	0.0	<0.00404	0.00 - 0.00404	0
PROTOCOL CHRYS STRUCS TOTAL	3.3	0.00405	0.00 - 0.0105	3
PROTOCOL AMPH STRUCS 5-10	3.3	0.00405	0.00 - 0.0105	3
PROTOCOL AMPH STRUCS >10	0.0	<0.00404	0.00 - 0.00404	0
PROTOCOL AMPH STRUCS TOTAL	3.3	0.00405	0.00 - 0.0105	3
AHERA-like Total Structures 3:1	110.6	0.136	0.110 - 0.164 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	29.6	0.0365	0.0240 - 0.0530	27
AHERA-like Asb Strucs 5 - 10 and 3:1	20.8	0.0257	0.0154 - 0.0401	19
AHERA-like Asb Strucs >10 and 3:1	8.8	0.0108	0.00466 - 0.0213	8
Total Other Amphibole Strucs 3:1	0.0	<0.00404	0.00 - 0.00404	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00404	0.00 - 0.00404	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00404	0.00 - 0.00404	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00404	0.00 - 0.00404	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S31 A1
Client Sample No. SFBB-L2-2CH-100604
Description
Analysis Date 2/22/2005
Analyst KM

Volume (L) 315.25
No. of Grid Openings 169
Filter Area (mm2) 193
Area Analyzed (mm2) 2.45
Analytical Sens. (struc/cc) 0.00100
Dectection Limit. (struc/cc) 0.00299

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	33.9	0.0830	0.0661 - 0.103 (Poisson)	83
Total Asbestos Structures	33.9	0.0830	0.0661 - 0.103 (Poisson)	83
Asbestos Structures > 5um	6.1	0.0150	0.00840 - 0.0247	15
Asbestos Fibers and Bundles > 5um	2.9	0.00700	0.00281 - 0.0144	7
PCM Equivalent Fibers-US	2.5	0.00600	0.00220 - 0.0131	6
PCM Equivalent Structures-ISO	2.5	0.00600	0.00220 - 0.0131	6
PROTOCOL ASB STRUCS 5-10	1.2	0.00300	0.00 - 0.00775	3
PROTOCOL ASB STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL ASB STRUCS TOTAL	1.2	0.00300	0.00 - 0.00775	3
PROTOCOL CHRYS STRUCS 5-10	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL CHRYS STRUCS TOTAL	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL AMPH STRUCS 5-10	0.8	0.00200	0.00 - 0.00630	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS TOTAL	0.8	0.00200	0.00 - 0.00630	2
AHERA-like Total Structures 3:1	33.9	0.0830	0.0661 - 0.103 (Poisson)	83
AHERA-like Asb Strucs >5 and 3:1	6.1	0.0150	0.00840 - 0.0247	15
AHERA-like Asb Strucs 5 - 10 and 3:1	4.9	0.0120	0.00620 - 0.0210	12
AHERA-like Asb Strucs >10 and 3:1	1.2	0.00300	0.00 - 0.00775	3
Total Other Amphibole Strucs 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S37 A1
Client Sample No. SFBC-H2-2FD-100604
Description
Analysis Date 2/23/2005
Analyst KM

Volume (L) 598.92
No. of Grid Openings 89
Filter Area (mm2) 193
Area Analyzed (mm2) 1.29
Analytical Sens. (struc/cc) 0.00100
Dectection Limit. (struc/cc) 0.00299

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	65.9	0.0850	0.0679 - 0.105 (Poisson)	85
Total Asbestos Structures	65.9	0.0850	0.0679 - 0.105 (Poisson)	85
Asbestos Structures > 5um	9.3	0.0120	0.00620 - 0.0210	12
Asbestos Fibers and Bundles > 5um	7.0	0.00900	0.00411 - 0.0171	9
PCM Equivalent Fibers-US	6.2	0.00800	0.00345 - 0.0158	8
PCM Equivalent Structures-ISO	3.1	0.00400	0.00109 - 0.0102	4
PROTOCOL ASB STRUCS 5-10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS >10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS TOTAL	1.6	0.00200	0.00 - 0.00630	2
PROTOCOL CHRYS STRUCS 5-10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS >10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS TOTAL	1.6	0.00200	0.00 - 0.00630	2
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00299	0.00 - 0.00299	0
AHERA-like Total Structures 3:1	65.9	0.0850	0.0679 - 0.105 (Poisson)	85
AHERA-like Asb Strucs >5 and 3:1	9.3	0.0120	0.00620 - 0.0210	12
AHERA-like Asb Strucs 5 - 10 and 3:1	5.4	0.00700	0.00281 - 0.0144	7
AHERA-like Asb Strucs >10 and 3:1	3.9	0.00500	0.00162 - 0.0117	5
Total Other Amphibole Strucs 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S39 A1	**Volume (L)**	299.11
Client Sample No.	NFB-L2-15CH-100504	**No. of Grid Openings**	126
Description		**Filter Area (mm2)**	193
Analysis Date	2/24/2005	**Area Analyzed (mm2)**	1.83
Analyst	KM	**Analytical Sens. (struc/cc)**	0.00188
		Dectection Limit. (struc/cc)	0.00564

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	56.4	0.194	0.153 - 0.229 (Poisson)	103
Total Asbestos Structures	56.4	0.194	0.153 - 0.229 (Poisson)	103
Asbestos Structures > 5um	28.5	0.0980	0.0732 - 0.129 (Poisson)	52
Asbestos Fibers and Bundles > 5um	20.8	0.0716	0.0507 - 0.0983 (Poisson)	38
PCM Equivalent Fibers-US	19.7	0.0679	0.0475 - 0.0939 (Poisson)	36
PCM Equivalent Structures-ISO	16.4	0.0565	0.0382 - 0.0807	30
PROTOCOL ASB STRUCS 5-10	2.2	0.00754	0.00205 - 0.0193	4
PROTOCOL ASB STRUCS >10	0.0	<0.00564	0.00 - 0.00564	0
PROTOCOL ASB STRUCS TOTAL	2.2	0.00754	0.00205 - 0.0193	4
PROTOCOL CHRYS STRUCS 5-10	1.1	0.00377	0.00 - 0.0119	2
PROTOCOL CHRYS STRUCS >10	0.0	<0.00564	0.00 - 0.00564	0
PROTOCOL CHRYS STRUCS TOTAL	1.1	0.00377	0.00 - 0.0119	2
PROTOCOL AMPH STRUCS 5-10	1.1	0.00377	0.00 - 0.0119	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00564	0.00 - 0.00564	0
PROTOCOL AMPH STRUCS TOTAL	1.1	0.00377	0.00 - 0.0119	2
AHERA-like Total Structures 3:1	56.4	0.194	0.153 - 0.229 (Poisson)	103
AHERA-like Asb Strucs >5 and 3:1	28.5	0.0980	0.0732 - 0.129 (Poisson)	52
AHERA-like Asb Strucs 5 - 10 and 3:1	21.9	0.0754	0.0539 - 0.103 (Poisson)	40
AHERA-like Asb Strucs >10 and 3:1	6.6	0.0226	0.0117 - 0.0395	12
Total Other Amphibole Strucs 3:1	0.0	<0.00564	0.00 - 0.00564	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00564	0.00 - 0.00564	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00564	0.00 - 0.00564	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00564	0.00 - 0.00564	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S40 A1
Client Sample No. NFB-L2-1CH-100504
Description
Analysis Date 2/26/2005
Analyst TM

Volume (L) 306.25
No. of Grid Openings 131
Filter Area (mm2) 193
Area Analyzed (mm2) 1.90
Analytical Sens. (struc/cc) 0.00133
Dectection Limit. (struc/cc) 0.00397

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	53.7	0.135	0.108 - 0.162 (Poisson)	102
Total Asbestos Structures	52.7	0.133	0.108 - 0.162 (Poisson)	100
Asbestos Structures > 5um	15.3	0.0385	0.0258 - 0.0553	29
Asbestos Fibers and Bundles > 5um	11.1	0.0279	0.0173 - 0.0426	21
PCM Equivalent Fibers-US	9.0	0.0226	0.0132 - 0.0361	17
PCM Equivalent Structures-ISO	7.9	0.0199	0.0111 - 0.0329	15
PROTOCOL ASB STRUCS 5-10	0.5	0.00133	0.00 - 0.00629	1
PROTOCOL ASB STRUCS >10	0.5	0.00133	0.00 - 0.00629	1
PROTOCOL ASB STRUCS TOTAL	1.1	0.00266	0.00 - 0.00837	2
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00397	0.00 - 0.00397	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00397	0.00 - 0.00397	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00397	0.00 - 0.00397	0
PROTOCOL AMPH STRUCS 5-10	0.5	0.00133	0.00 - 0.00629	1
PROTOCOL AMPH STRUCS >10	0.5	0.00133	0.00 - 0.00629	1
PROTOCOL AMPH STRUCS TOTAL	1.1	0.00266	0.00 - 0.00837	2
AHERA-like Total Structures 3:1	53.2	0.134	0.108 - 0.162 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	15.3	0.0385	0.0258 - 0.0553	29
AHERA-like Asb Strucs 5 - 10 and 3:1	7.4	0.0186	0.0102 - 0.0312	14
AHERA-like Asb Strucs >10 and 3:1	7.9	0.0199	0.0111 - 0.0329	15
Total Other Amphibole Strucs 3:1	0.5	0.00133	0.00 - 0.00629	1
Other Amphibole Strucs >5 and 3:1	0.5	0.00133	0.00 - 0.00629	1
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00397	0.00 - 0.00397	0
Other Amphibole Strucs >10 and 3:1	0.5	0.00133	0.00 - 0.00629	1

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S43 A1	**Volume (L)**	312.54
Client Sample No.	NFB-L2-4CH-100504	**No. of Grid Openings**	87
Description		**Filter Area (mm2)**	193
Analysis Date	3/2/2005	**Area Analyzed (mm2)**	1.26
Analyst	JH	**Analytical Sens. (struc/cc)**	0.00196
		Dectection Limit. (struc/cc)	0.00586

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	80.9	0.200	0.159 - 0.238 (Poisson)	102
Total Asbestos Structures	80.9	0.200	0.159 - 0.238 (Poisson)	102
Asbestos Structures > 5um	30.1	0.0745	0.0527 - 0.102 (Poisson)	38
Asbestos Fibers and Bundles > 5um	25.4	0.0627	0.0429 - 0.0885 (Poisson)	32
PCM Equivalent Fibers-US	23.0	0.0568	0.0381 - 0.0816	29
PCM Equivalent Structures-ISO	14.3	0.0353	0.0209 - 0.0557	18
PROTOCOL ASB STRUCS 5-10	3.2	0.00784	0.00214 - 0.0201	4
PROTOCOL ASB STRUCS >10	0.0	<0.00586	0.00 - 0.00586	0
PROTOCOL ASB STRUCS TOTAL	3.2	0.00784	0.00214 - 0.0201	4
PROTOCOL CHRYS STRUCS 5-10	1.6	0.00392	0.00 - 0.0123	2
PROTOCOL CHRYS STRUCS >10	0.0	<0.00586	0.00 - 0.00586	0
PROTOCOL CHRYS STRUCS TOTAL	1.6	0.00392	0.00 - 0.0123	2
PROTOCOL AMPH STRUCS 5-10	1.6	0.00392	0.00 - 0.0123	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00586	0.00 - 0.00586	0
PROTOCOL AMPH STRUCS TOTAL	1.6	0.00392	0.00 - 0.0123	2
AHERA-like Total Structures 3:1	80.9	0.200	0.159 - 0.238 (Poisson)	102
AHERA-like Asb Strucs >5 and 3:1	30.1	0.0745	0.0527 - 0.102 (Poisson)	38
AHERA-like Asb Strucs 5 - 10 and 3:1	22.2	0.0549	0.0365 - 0.0793	28
AHERA-like Asb Strucs >10 and 3:1	7.9	0.0196	0.00940 - 0.0360	10
Total Other Amphibole Strucs 3:1	0.0	<0.00586	0.00 - 0.00586	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00586	0.00 - 0.00586	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00586	0.00 - 0.00586	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00586	0.00 - 0.00586	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S44 A1
Client Sample No. NFB-L2-5CH-100504
Description
Analysis Date 3/3/2005
Analyst KM

Volume (L) 307.46
No. of Grid Openings 168
Filter Area (mm2) 193
Area Analyzed (mm2) 2.43
Analytical Sens. (struc/cc) 0.00103
Dectection Limit. (struc/cc) 0.00308

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	41.5	0.104	0.0839 - 0.125 (Poisson)	101
Total Asbestos Structures	41.9	0.105	0.0839 - 0.125 (Poisson)	102
Asbestos Structures > 5um	22.2	0.0557	0.0418 - 0.0727 (Poisson)	54
Asbestos Fibers and Bundles > 5um	19.3	0.0485	0.0356 - 0.0645 (Poisson)	47
PCM Equivalent Fibers-US	18.1	0.0454	0.0330 - 0.0609 (Poisson)	44
PCM Equivalent Structures-ISO	15.2	0.0382	0.0269 - 0.0526 (Poisson)	37
PROTOCOL ASB STRUCS 5-10	0.8	0.00206	0.00 - 0.00650	2
PROTOCOL ASB STRUCS >10	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL ASB STRUCS TOTAL	0.8	0.00206	0.00 - 0.00650	2
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL AMPH STRUCS 5-10	0.8	0.00206	0.00 - 0.00650	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL AMPH STRUCS TOTAL	0.8	0.00206	0.00 - 0.00650	2
AHERA-like Total Structures 3:1	41.1	0.103	0.0839 - 0.125 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	21.8	0.0547	0.0409 - 0.0715 (Poisson)	53
AHERA-like Asb Strucs 5 - 10 and 3:1	14.0	0.0351	0.0243 - 0.0490 (Poisson)	34
AHERA-like Asb Strucs >10 and 3:1	7.8	0.0196	0.0118 - 0.0306	19
Total Other Amphibole Strucs 3:1	0.4	0.00103	0.00 - 0.00489	1
Other Amphibole Strucs >5 and 3:1	0.4	0.00103	0.00 - 0.00489	1
Other Amphibole Strucs 5 - 10 and 3:1	0.4	0.00103	0.00 - 0.00489	1
Other Amphibole Strucs >10 and 3:1	0.0	<0.00308	0.00 - 0.00308	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S45 A1
Client Sample No. SFBC-L2-1CH-100604
Description
Analysis Date 3/7/2005
Analyst KM

Volume (L) 302.04
No. of Grid Openings 82
Filter Area (mm2) 193
Area Analyzed (mm2) 1.19
Analytical Sens. (struc/cc) 0.00215
Dectection Limit. (struc/cc) 0.00643

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	88.4	0.226	0.175 - 0.262 (Poisson)	105
Total Asbestos Structures	88.4	0.226	0.175 - 0.262 (Poisson)	105
Asbestos Structures > 5um	10.9	0.0280	0.0149 - 0.0478	13
Asbestos Fibers and Bundles > 5um	10.9	0.0280	0.0149 - 0.0478	13
PCM Equivalent Fibers-US	10.1	0.0258	0.0133 - 0.0451	12
PCM Equivalent Structures-ISO	5.9	0.0151	0.00605 - 0.0310	7
PROTOCOL ASB STRUCS 5-10	1.7	0.00430	0.00 - 0.0136	2
PROTOCOL ASB STRUCS >10	0.0	<0.00643	0.00 - 0.00643	0
PROTOCOL ASB STRUCS TOTAL	1.7	0.00430	0.00 - 0.0136	2
PROTOCOL CHRYS STRUCS 5-10	0.8	0.00215	0.00 - 0.0102	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00643	0.00 - 0.00643	0
PROTOCOL CHRYS STRUCS TOTAL	0.8	0.00215	0.00 - 0.0102	1
PROTOCOL AMPH STRUCS 5-10	0.8	0.00215	0.00 - 0.0102	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00643	0.00 - 0.00643	0
PROTOCOL AMPH STRUCS TOTAL	0.8	0.00215	0.00 - 0.0102	1
AHERA-like Total Structures 3:1	88.4	0.226	0.175 - 0.262 (Poisson)	105
AHERA-like Asb Strucs >5 and 3:1	10.9	0.0280	0.0149 - 0.0478	13
AHERA-like Asb Strucs 5 - 10 and 3:1	6.7	0.0172	0.00743 - 0.0339	8
AHERA-like Asb Strucs >10 and 3:1	4.2	0.0108	0.00349 - 0.0251	5
Total Other Amphibole Strucs 3:1	0.0	<0.00643	0.00 - 0.00643	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00643	0.00 - 0.00643	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00643	0.00 - 0.00643	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00643	0.00 - 0.00643	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S47 A1	**Volume (L)**	309
Client Sample No.	SFBC-L2-3CH-100604	**No. of Grid Openings**	37
Description		**Filter Area (mm2)**	193
Analysis Date	3/22/2005	**Area Analyzed (mm2)**	1.97
Analyst	KM	**Analytical Sens. (struc/cc)**	0.00127
		Dectection Limit. (struc/cc)	0.00379

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	50.7	0.127	0.103 - 0.154 (Poisson)	100
Total Asbestos Structures	50.7	0.127	0.103 - 0.154 (Poisson)	100
Asbestos Structures > 5um	4.6	0.0114	0.00522 - 0.0217	9
Asbestos Fibers and Bundles > 5um	2.5	0.00634	0.00206 - 0.0148	5
PCM Equivalent Fibers-US	1.5	0.00380	0.00 - 0.00983	3
PCM Equivalent Structures-ISO	2.0	0.00507	0.00138 - 0.0130	4
PROTOCOL ASB STRUCS 5-10	0.5	0.00127	0.00 - 0.00601	1
PROTOCOL ASB STRUCS >10	0.0	<0.00379	0.00 - 0.00379	0
PROTOCOL ASB STRUCS TOTAL	0.5	0.00127	0.00 - 0.00601	1
PROTOCOL CHRYS STRUCS 5-10	0.5	0.00127	0.00 - 0.00601	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00379	0.00 - 0.00379	0
PROTOCOL CHRYS STRUCS TOTAL	0.5	0.00127	0.00 - 0.00601	1
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00379	0.00 - 0.00379	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00379	0.00 - 0.00379	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00379	0.00 - 0.00379	0
AHERA-like Total Structures 3:1	50.7	0.127	0.103 - 0.154 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	4.6	0.0114	0.00522 - 0.0217	9
AHERA-like Asb Strucs 5 - 10 and 3:1	2.5	0.00634	0.00206 - 0.0148	5
AHERA-like Asb Strucs >10 and 3:1	2.0	0.00507	0.00138 - 0.0130	4
Total Other Amphibole Strucs 3:1	0.0	<0.00379	0.00 - 0.00379	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00379	0.00 - 0.00379	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00379	0.00 - 0.00379	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00379	0.00 - 0.00379	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S48 A1
Client Sample No. SFBC-L2-4CH-100604
Description
Analysis Date 3/23/2005
Analyst DW

Volume (L) 312.72
No. of Grid Openings 79
Filter Area (mm2) 193
Area Analyzed (mm2) 1.14
Analytical Sens. (struc/cc) 0.00216
Dectection Limit. (struc/cc) 0.00645

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	89.1	0.220	0.175 - 0.262 (Poisson)	102
Total Asbestos Structures	89.1	0.220	0.175 - 0.262 (Poisson)	102
Asbestos Structures > 5um	9.6	0.0237	0.0118 - 0.0424	11
Asbestos Fibers and Bundles > 5um	7.0	0.0173	0.00745 - 0.0340	8
PCM Equivalent Fibers-US	6.1	0.0151	0.00607 - 0.0311	7
PCM Equivalent Structures-ISO	5.2	0.0129	0.00475 - 0.0282	6
PROTOCOL ASB STRUCS 5-10	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL ASB STRUCS >10	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL ASB STRUCS TOTAL	1.7	0.00431	0.00 - 0.0136	2
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00645	0.00 - 0.00645	0
PROTOCOL CHRYS STRUCS >10	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL CHRYS STRUCS TOTAL	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL AMPH STRUCS 5-10	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00645	0.00 - 0.00645	0
PROTOCOL AMPH STRUCS TOTAL	0.9	0.00216	0.00 - 0.0102	1
AHERA-like Total Structures 3:1	89.1	0.220	0.175 - 0.262 (Poisson)	102
AHERA-like Asb Strucs >5 and 3:1	9.6	0.0237	0.0118 - 0.0424	11
AHERA-like Asb Strucs 5 - 10 and 3:1	8.7	0.0216	0.0103 - 0.0397	10
AHERA-like Asb Strucs >10 and 3:1	0.9	0.00216	0.00 - 0.0102	1
Total Other Amphibole Strucs 3:1	0.0	<0.00645	0.00 - 0.00645	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00645	0.00 - 0.00645	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00645	0.00 - 0.00645	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00645	0.00 - 0.00645	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S49 A1	**Volume (L)**	294.96
Client Sample No.	SFBC-L2-5CH-100604	**No. of Grid Openings**	137
Description		**Filter Area (mm2)**	193
Analysis Date	3/24/2005	**Area Analyzed (mm2)**	1.99
Analyst	DW	**Analytical Sens. (struc/cc)**	0.00132
		Dectection Limit. (struc/cc)	0.00394

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	50.4	0.132	0.107 - 0.160 (Poisson)	100
Total Asbestos Structures	50.9	0.133	0.107 - 0.160 (Poisson)	101
Asbestos Structures > 5um	9.1	0.0237	0.0141 - 0.0375	18
Asbestos Fibers and Bundles > 5um	5.0	0.0132	0.00632 - 0.0242	10
PCM Equivalent Fibers-US	4.5	0.0119	0.00543 - 0.0225	9
PCM Equivalent Structures-ISO	2.0	0.00527	0.00144 - 0.0135	4
PROTOCOL ASB STRUCS 5-10	1.0	0.00264	0.00 - 0.00831	2
PROTOCOL ASB STRUCS >10	0.0	<0.00394	0.00 - 0.00394	0
PROTOCOL ASB STRUCS TOTAL	1.0	0.00264	0.00 - 0.00831	2
PROTOCOL CHRYS STRUCS 5-10	0.5	0.00132	0.00 - 0.00625	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00394	0.00 - 0.00394	0
PROTOCOL CHRYS STRUCS TOTAL	0.5	0.00132	0.00 - 0.00625	1
PROTOCOL AMPH STRUCS 5-10	0.5	0.00132	0.00 - 0.00625	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00394	0.00 - 0.00394	0
PROTOCOL AMPH STRUCS TOTAL	0.5	0.00132	0.00 - 0.00625	1
AHERA-like Total Structures 3:1	50.4	0.132	0.107 - 0.160 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	9.1	0.0237	0.0141 - 0.0375	18
AHERA-like Asb Strucs 5 - 10 and 3:1	6.0	0.0158	0.00818 - 0.0276	12
AHERA-like Asb Strucs >10 and 3:1	3.0	0.00791	0.00290 - 0.0172	6
Total Other Amphibole Strucs 3:1	0.0	<0.00394	0.00 - 0.00394	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00394	0.00 - 0.00394	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00394	0.00 - 0.00394	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00394	0.00 - 0.00394	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S86 A1
Client Sample No. SFBA-H2-2PG-100504
Description
Analysis Date 4/1/2005
Analyst DW

Volume (L) 1203.6
No. of Grid Openings 147
Filter Area (mm2) 193
Area Analyzed (mm2) 2.13
Analytical Sens. (struc/cc) 0.000301
Dectection Limit. (struc/cc) 0.000900

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	36.6	0.0235	0.0186 - 0.0293 (Poisson)	78
Total Asbestos Structures	38.5	0.0247	0.0196 - 0.0307 (Poisson)	82
Asbestos Structures > 5um	18.3	0.0117	0.00835 - 0.0161 (Poisson)	39
Asbestos Fibers and Bundles > 5um	13.1	0.00843	0.00560 - 0.0122	28
PCM Equivalent Fibers-US	12.2	0.00783	0.00511 - 0.0115	26
PCM Equivalent Structures-ISO	2.3	0.00151	0.000489 - 0.00351	5
PROTOCOL ASB STRUCS 5-10	0.9	0.000602	0.00 - 0.00190	2
PROTOCOL ASB STRUCS >10	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL ASB STRUCS TOTAL	0.9	0.000602	0.00 - 0.00190	2
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL AMPH STRUCS 5-10	0.9	0.000602	0.00 - 0.00190	2
PROTOCOL AMPH STRUCS >10	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL AMPH STRUCS TOTAL	0.9	0.000602	0.00 - 0.00190	2
AHERA-like Total Structures 3:1	36.6	0.0235	0.0186 - 0.0293 (Poisson)	78
AHERA-like Asb Strucs >5 and 3:1	18.3	0.0117	0.00835 - 0.0161 (Poisson)	39
AHERA-like Asb Strucs 5 - 10 and 3:1	5.2	0.00331	0.00165 - 0.00593	11
AHERA-like Asb Strucs >10 and 3:1	13.1	0.00843	0.00560 - 0.0122	28
Total Other Amphibole Strucs 3:1	0.0	<0.000900	0.00 - 0.000900	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.000900	0.00 - 0.000900	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.000900	0.00 - 0.000900	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.000900	0.00 - 0.000900	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S98 A1
Client Sample No. SFBB-H2-2PG-100604
Description
Analysis Date 3/24/2005
Analyst JH

Volume (L) 1244.76
No. of Grid Openings 57
Filter Area (mm2) 193
Area Analyzed (mm2) 0.826
Analytical Sens. (struc/cc) 0.000751
Dectection Limit. (struc/cc) 0.00225

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	121.1	0.0751	0.0611 - 0.0914 (Poisson)	100
Total Asbestos Structures	121.1	0.0751	0.0611 - 0.0914 (Poisson)	100
Asbestos Structures > 5um	43.6	0.0270	0.0189 - 0.0374 (Poisson)	36
Asbestos Fibers and Bundles > 5um	26.6	0.0165	0.0104 - 0.0250	22
PCM Equivalent Fibers-US	31.5	0.0195	0.0128 - 0.0286	26
PCM Equivalent Structures-ISO	31.5	0.0195	0.0128 - 0.0286	26
PROTOCOL ASB STRUCS 5-10	3.6	0.00225	0.00 - 0.00582	3
PROTOCOL ASB STRUCS >10	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL ASB STRUCS TOTAL	3.6	0.00225	0.00 - 0.00582	3
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL AMPH STRUCS 5-10	3.6	0.00225	0.00 - 0.00582	3
PROTOCOL AMPH STRUCS >10	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL AMPH STRUCS TOTAL	3.6	0.00225	0.00 - 0.00582	3
AHERA-like Total Structures 3:1	121.1	0.0751	0.0611 - 0.0914 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	43.6	0.0270	0.0189 - 0.0374 (Poisson)	36
AHERA-like Asb Strucs 5 - 10 and 3:1	26.6	0.0165	0.0104 - 0.0250	22
AHERA-like Asb Strucs >10 and 3:1	17.0	0.0105	0.00575 - 0.0176	14
Total Other Amphibole Strucs 3:1	0.0	<0.00225	0.00 - 0.00225	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00225	0.00 - 0.00225	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00225	0.00 - 0.00225	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00225	0.00 - 0.00225	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S101 A1
Client Sample No. SFBB-H2-4PG-100604
Description
Analysis Date 3/25/2005
Analyst JH

Volume (L) 1215.88
No. of Grid Openings 56
Filter Area (mm2) 193
Area Analyzed (mm2) 0.811
Analytical Sens. (struc/cc) 0.00156
Dectection Limit. (struc/cc) 0.00468

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	124.5	0.158	0.127 - 0.190 (Poisson)	101
Total Asbestos Structures	124.5	0.158	0.127 - 0.190 (Poisson)	101
Asbestos Structures > 5um	32.0	0.0407	0.0266 - 0.0596	26
Asbestos Fibers and Bundles > 5um	19.7	0.0250	0.0143 - 0.0407	16
PCM Equivalent Fibers-US	21.0	0.0266	0.0155 - 0.0426	17
PCM Equivalent Structures-ISO	22.2	0.0282	0.0167 - 0.0445	18
PROTOCOL ASB STRUCS 5-10	2.5	0.00313	0.00 - 0.00986	2
PROTOCOL ASB STRUCS >10	1.2	0.00156	0.00 - 0.00742	1
PROTOCOL ASB STRUCS TOTAL	3.7	0.00469	0.00 - 0.0121	3
PROTOCOL CHRYS STRUCS 5-10	1.2	0.00156	0.00 - 0.00742	1
PROTOCOL CHRYS STRUCS >10	1.2	0.00156	0.00 - 0.00742	1
PROTOCOL CHRYS STRUCS TOTAL	2.5	0.00313	0.00 - 0.00986	2
PROTOCOL AMPH STRUCS 5-10	1.2	0.00156	0.00 - 0.00742	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00468	0.00 - 0.00468	0
PROTOCOL AMPH STRUCS TOTAL	1.2	0.00156	0.00 - 0.00742	1
AHERA-like Total Structures 3:1	124.5	0.158	0.127 - 0.190 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	32.0	0.0407	0.0266 - 0.0596	26
AHERA-like Asb Strucs 5 - 10 and 3:1	24.6	0.0313	0.0191 - 0.0483	20
AHERA-like Asb Strucs >10 and 3:1	7.4	0.00939	0.00345 - 0.0204	6
Total Other Amphibole Strucs 3:1	0.0	<0.00468	0.00 - 0.00468	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00468	0.00 - 0.00468	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00468	0.00 - 0.00468	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00468	0.00 - 0.00468	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S103 A1
Client Sample No. SFBB-H2-5PG-100604
Description
Analysis Date 3/28/2005
Analyst KM

Volume (L) 1247.88
No. of Grid Openings 27
Filter Area (mm2) 193
Area Analyzed (mm2) 0.391
Analytical Sens. (struc/cc) 0.00158
Dectection Limit. (struc/cc) 0.00473

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	260.7	0.161	0.129 - 0.192 (Poisson)	102
Total Asbestos Structures	258.2	0.160	0.129 - 0.192 (Poisson)	101
Asbestos Structures > 5um	53.7	0.0332	0.0206 - 0.0508	21
Asbestos Fibers and Bundles > 5um	35.8	0.0221	0.0121 - 0.0371	14
PCM Equivalent Fibers-US	28.1	0.0174	0.00868 - 0.0311	11
PCM Equivalent Structures-ISO	20.4	0.0127	0.00546 - 0.0249	8
PROTOCOL ASB STRUCS 5-10	15.3	0.00949	0.00348 - 0.0207	6
PROTOCOL ASB STRUCS >10	0.0	<0.00473	0.00 - 0.00473	0
PROTOCOL ASB STRUCS TOTAL	15.3	0.00949	0.00348 - 0.0207	6
PROTOCOL CHRYS STRUCS 5-10	10.2	0.00633	0.00172 - 0.0162	4
PROTOCOL CHRYS STRUCS >10	0.0	<0.00473	0.00 - 0.00473	0
PROTOCOL CHRYS STRUCS TOTAL	10.2	0.00633	0.00172 - 0.0162	4
PROTOCOL AMPH STRUCS 5-10	5.1	0.00316	0.00 - 0.00996	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00473	0.00 - 0.00473	0
PROTOCOL AMPH STRUCS TOTAL	5.1	0.00316	0.00 - 0.00996	2
AHERA-like Total Structures 3:1	258.2	0.160	0.129 - 0.192 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	53.7	0.0332	0.0206 - 0.0508	21
AHERA-like Asb Strucs 5 - 10 and 3:1	46.0	0.0285	0.0169 - 0.0450	18
AHERA-like Asb Strucs >10 and 3:1	7.7	0.00474	0.00 - 0.0123	3
Total Other Amphibole Strucs 3:1	2.6	0.00158	0.00 - 0.00750	1
Other Amphibole Strucs >5 and 3:1	0.0	<0.00473	0.00 - 0.00473	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00473	0.00 - 0.00473	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00473	0.00 - 0.00473	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S111 A1
Client Sample No. SFBC-H2-4PG-100604
Description
Analysis Date 3/29/2005
Analyst DW

Volume (L) 1148.05
No. of Grid Openings 46
Filter Area (mm2) 193
Area Analyzed (mm2) 0.667
Analytical Sens. (struc/cc) 0.00101
Dectection Limit. (struc/cc) 0.00302

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	82.5	0.0555	0.0418 - 0.0722 (Poisson)	55
Total Asbestos Structures	96.0	0.0646	0.0497 - 0.0825 (Poisson)	64
Asbestos Structures > 5um	24.0	0.0161	0.00923 - 0.0262	16
Asbestos Fibers and Bundles > 5um	12.0	0.00807	0.00348 - 0.0159	8
PCM Equivalent Fibers-US	9.0	0.00605	0.00222 - 0.0132	6
PCM Equivalent Structures-ISO	1.5	0.00101	0.00 - 0.00478	1
PROTOCOL ASB STRUCS 5-10	3.0	0.00202	0.00 - 0.00636	2
PROTOCOL ASB STRUCS >10	0.0	<0.00302	0.00 - 0.00302	0
PROTOCOL ASB STRUCS TOTAL	3.0	0.00202	0.00 - 0.00636	2
PROTOCOL CHRYS STRUCS 5-10	3.0	0.00202	0.00 - 0.00636	2
PROTOCOL CHRYS STRUCS >10	0.0	<0.00302	0.00 - 0.00302	0
PROTOCOL CHRYS STRUCS TOTAL	3.0	0.00202	0.00 - 0.00636	2
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00302	0.00 - 0.00302	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00302	0.00 - 0.00302	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00302	0.00 - 0.00302	0
AHERA-like Total Structures 3:1	82.5	0.0555	0.0418 - 0.0722 (Poisson)	55
AHERA-like Asb Strucs >5 and 3:1	24.0	0.0161	0.00923 - 0.0262	16
AHERA-like Asb Strucs 5 - 10 and 3:1	15.0	0.0101	0.00484 - 0.0186	10
AHERA-like Asb Strucs >10 and 3:1	9.0	0.00605	0.00222 - 0.0132	6
Total Other Amphibole Strucs 3:1	0.0	<0.00302	0.00 - 0.00302	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00302	0.00 - 0.00302	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00302	0.00 - 0.00302	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00302	0.00 - 0.00302	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	AZQ	1	1	F	1.3	0.3	4.3	58	15760	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 1 2] - KM	TAS_AHRA
A	1	B44	AQ	2	2	F	5.8	0.8	7.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	B44	AQ	3		MD1-0	6	1.8	3.3			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	B44	AQ		3	MF	4	0.45	8.9			Mg, Al, Si, Ca, Fe Actinolite	
A	1	B44	CDQ	4	4	F	1	0.08	12	59	15761	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	2	B24	CD	5	5	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	2	B24	CD	6	6	F	0.8	0.05	16			Chrysotile	TAS_AHRA
A	2	B24	CD	7	7	F	0.5	0.05	10			Chrysotile	TAS_AHRA
A	3	B4	CD	8		MD1-0	4	3.8	1.1			Chrysotile	TAS_AHRA
A	3	B4	CD		8	MF	1.6	0.1	16			Chrysotile	
A	3	B4	CD	9	9	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	3	B4	CD	10		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
A	3	B4	CD		10	MF	1.2	0.08	15			Chrysotile	
A	3	B4	CD	11	11	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	3	B4	CD	12	12	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	4	C14	CD	13	13	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	4	C14	AQ	14		MD1-0	3.8	1.2	3.2			Actinolite	TAS_AHRA
A	4	C14	AQ		14	MF	3.8	0.4	9.5			Mg, Al, Si, Ca, Fe Actinolite	
A	4	C14	CD	15	15	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	4	C14	CD	16		MD2-0	5.5	3	1.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	C14	CD		16	MF	2	0.08	25			Chrysotile	
A	4	C14	CD		17	MF	0.8	0.08	10			Chrysotile	
A	5	C34	AQ	17	18	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	C34	CD	18	19	F	1.6	0.1	16			Chrysotile	TAS_AHRA
A	5	C34	AQ	19	20	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	C34	CD	20		MD1-0	3.5	2	1.8			Chrysotile	TAS_AHRA
A	5	C34	CD		21	MF	1.8	0.08	22			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	5	C34	AQ	21	22	F	7.8	0.8	9.8			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	C33	CD	22	23	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	6	C33	CD	23		MD1-0	5.5	4	1.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	C33	CD		24	MF	2	0.11	18			Chrysotile	
A	6	C33	CD	24	25	F	1.1	0.08	14			Chrysotile	TAS_AHRA
A	6	C33	CD	25		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
A	6	C33	CD		26	MF	1.2	0.1	12			Chrysotile	
A	7	C23	CD	26	27	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	7	C23	AQ	27	28	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	C3	AQ	28	29	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	C3	CD	29	30	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	8	C3	CD	30	31	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	9	B13	CD	31	32	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	9	B13	AQ	32	33	F	1.5	0.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	B13	AQ	33	34	F	8.5	1.5	5.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	9	B13	CD	34	35	F	2	0.11	18			Chrysotile	TAS_AHRA
A	9	B13	AQ	35		MD1-1	18	10	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	9	B13	AQ		36	MF	8	0.8	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	9	B13	CD	36		MD1-0	1.8	0.7	2.6			Chrysotile	TAS_AHRA
A	9	B13	CD		37	MF	1.5	0.08	19			Chrysotile	
A	10	B33	AQ	37	38	F	2.6	0.6	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	B33	CD	38		MD1-1	12	8	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	10	B33	CD		39	MB	7.5	0.5	15			Chrysotile	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
A	10	B33	CD	39	40	F	0.9	0.08	11			Chrysotile	TAS_AHRA
A	10	B33	CD	40	41	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	11	B13	CD	41	42	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	12	C3		NSD									
A	13	C13	CD	42	43	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	C13	AQ	43	44	F	7	2.2	3.2			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	C13	CD	44	45	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	14	C33	CD	45	46	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
A	14	C33	AQ	46	47	F	1.8	0.2	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	14	C33	CD	47		MD1-0	3	0.8	3.8			Chrysotile	TAS_AHRA
A	14	C33	CD		48	MF	3	0.1	30			Chrysotile	
A	15	C42	CD	48	49	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	15	C42	AQ	49	50	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	C42	CD	50	51	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	15	C42	AQ	51		MD1-0	4.5	4	1.1			Actinolite	TAS_AHRA
A	15	C42	AQ		52	MF	1.5	0.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	
A	15	C42	CD	52		MD1-0	2	0.5	4.0			Chrysotile	TAS_AHRA
A	15	C42	CD		53	MF	1.5	0.08	19			Chrysotile	
A	16	C22	AQ	53	54	F	10	1.2	8.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	C2	CD	54	55	F	1	0.08	12			Chrysotile	TAS_AHRA
A	17	C2	AQ	55	56	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	18	B12	AQ	56	57	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	18	B12	CD	57	58	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	19	B32	AQ	58		MD2-0	5	5	1.0			Actinolite	TAS_AHRA
A	19	B32	AQ		59	MF	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	
A	19	B32	AQ		60	MF	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	
A	19	B32	CD	59	61	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	19	B32	AQ	60	62	F	9.5	1.3	7.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	B32	CD	61	63	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	19	B32	CD	62	64	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	20	B40	CD	63	65	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	20	B40	CD	64	66	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	21	B20	AQ	65		MD1-1	8	6	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	21	B20	AQ		67	MF	8	0.45	18			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	21	B20	CD	66	68	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	22	A10	AQ	67		MD1-1	10	10	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	22	A10	AQ		69	MF	7	0.8	8.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	22	A10	CD	68	70	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	22	A10	AQ	69	71	F	1.8	0.25	7.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	22	A10	CD	70		MD1-0	6.5	3	2.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	22	A10	CD		72	MF	1	0.08	12			Chrysotile	
B	23	B34	CD	71	73	F	1	0.08	12			Chrysotile	TAS_AHRA
B	23	B34	AQ	72	74	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	23	B34	CD	73	75	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	23	B34	CD	74	76	F	0.58	0.08	7.2			Chrysotile	TAS_AHRA
B	23	B34	CD	75	77	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	24	B14	AQ	76	78	F	3.5	0.4	8.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	B14	AQ	77	79	F	12	0.8	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	25	C4	CD	78	80	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	25	C4	CD	79	81	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	26	C24	CD	80	82	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	27	C44		NSD									
B	28	C33	CD	81	83	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	28	C33	AQ	82	84	F	4.5	1.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	29	C13	AQ	83	85	F	6.5	2	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	29	C13	CD	84	86	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	29	C13	CD	85	87	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	30	B3	CD	86		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
B	30	B3	CD		88	MF	1.2	0.08	15			Chrysotile	
B	30	B3	CD	87	89	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	31	B22	CD	88	90	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	31	B22	AQ	89	91	F	8	2	4.0			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	B22	AQ	90	92	F	3.8	0.8	4.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	31	B22	CD	91	93	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	31	B22	CD	92	94	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	31	B22	CD	93	95	F	0.6	0.05	12			Chrysotile	TAS_AHRA
B	32	B2	CD	94	96	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	32	B2	CD	95	97	F	4.5	0.11	41			Chrysotile	TAS_AHRA
B	32	B2	AQ	96	98	F	5.2	0.6	8.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C12	AQ	97	99	F	4.5	0.8	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	C12	CD	98	100	F	0.6	0.11	5.5			Chrysotile	TAS_AHRA
B	33	C12	CD	99	101	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	34	C32	CD	100	102	F	2	0.08	25			Chrysotile	TAS_AHRA
B	34	C32	CD	101	103	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	34	C32	CD	102	104	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44		NSD									
A	2	B24	AQ	1	1	F	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	B4	AQ	2	2	F	1.8	0.3	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	B4	AQ	3		MD1-0	10	6	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	B4	AQ		3	MF	4.2	0.8	5.2			Mg, Al, Si, Ca, Fe Actinolite	
A	3	B4	CDQ	4	4	F	1.2	0.08	15	66	15771	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	3	B4	CD	5	5	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	4	C14		NSD									
A	5	C34	CD	6		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
A	5	C34	CD		6	MF	0.8	0.08	10			Chrysotile	
A	5	C34	CD	7		MD1-0	3	2.5	1.2			Chrysotile	TAS_AHRA
A	5	C34	CD		7	MF	0.6	0.08	7.5			Chrysotile	
A	5	C34	AQ	8		MD1-1	6.5	3.5	1.9			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	C34	AQ		8	MF	5.35	0.8	6.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	6	C43		NSD									
A	7	C23	CD	9	9	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	7	C23	CD	10	10	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	7	C23	CD	11	11	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	8	C3	CD	12		MD1-0	4	2	2.0			Chrysotile	TAS_AHRA
A	8	C3	CD		12	MF	0.6	0.1	6.0			Chrysotile	
A	8	C3	CD	13	13	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	8	C3	CD	14	14	F	1.1	0.08	14			Chrysotile	TAS_AHRA
A	8	C3	AQ	15	15	F	4.8	1.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	B13	CD	16	16	F	0.55	0.08	6.9			Chrysotile	TAS_AHRA
A	10	B33		NSD									
B	11	A41	CD	17	17	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	11	A41	AZQ	18	18	F	4	1	4.0	74	15774	Mg,Si,Ca,Fe Tremolite Zone Axis [2 1 1] - KM	TAS_AHRA
B	12	A31	CD	19	19	F	1	0.1	10			Chrysotile	TAS_AHRA
B	12	A31	CD	20	20	F	1	0.1	10			Chrysotile	TAS_AHRA
B	12	A31	AQ	21	21	F	1.5	0.2	7.5			Mg,Si,Ca,Fe Actinolite	TAS_AHRA
B	12	A31	CDQ	22	22	F	1	0.1	10	75		Mg,Si Chrysotile Verified - DW	TAS_AHRA
B	13	A21	CD	23	23	F	1	0.1	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	13	A21	CD	24	24	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	13	A21	CD	25	25	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	13	A21	CD	26	26	F	1	0.1	10			Chrysotile	TAS_AHRA
B	14	A11	CD	27	27	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	14	A11	AQ	28		MD1-0	2.5	2.5	1.0			Actinolite	TAS_AHRA
B	14	A11	AQ		28	MF	2.5	0.75	3.3			Mg,Si,Ca,Fe Actinolite	
B	14	A11	CD	29	29	F	1	0.1	10			Chrysotile	TAS_AHRA
B	15	A1	CD	30	30	F	1	0.1	10			Chrysotile	TAS_AHRA
B	15	A1	AQ	31		MD1-0	9	7.5	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	15	A1	AQ		31	MF	4.5	0.7	6.4			Mg,Si,Ca,Fe Actinolite	
B	16	D1	AQ	32		MD1-0	4	4	1.0			Actinolite	TAS_AHRA
B	16	D1	AQ		32	MF	4	0.5	8.0			Mg,Si,Ca,Fe Actinolite	
B	16	D11	CD	33	33	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	16	D11	CD	34	34	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	17	D21	AQ	35		MD1-1	20	20	1.0			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	17	D21	AQ		35	MF	10	2.75	3.6			Mg,Si,Ca,Fe Tremolite	AFB>5, PCMEF-US
B	17	D21	AQ	36		MD1-1	17.5	6	2.9			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	17	D21	AQ		36	MF	6	1	6.0			Mg,Si,Ca,Fe Actinolite	AFB>5, PCMEF-US
B	17	D21	CD	37	37	F	1	0.1	10			Chrysotile	TAS_AHRA
B	17	D21	CD	38	38	F	1	0.1	10			Chrysotile	TAS_AHRA
B	17	D21	CD	39	39	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	17	D21	CD	40		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
B	17	D21	CD		40	MF	0.6	0.1	6.0			Chrysotile	
B	18	D31	AQ	41		MD1-1	6	3	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	18	D31	AQ		41	MF	5.5	1.2	4.6			Mg,Si,Ca,Fe Actinolite	AFB>5, PCMEF-US
B	19	D41	CD	42		MD1-0	2.75	1	2.8			Chrysotile	TAS_AHRA
B	19	D41	CD		42	MF	1	0.1	10			Chrysotile	
B	19	D41	CD	43	43	F	1	0.1	10			Chrysotile	TAS_AHRA
B	20	D40	CD	44	44	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	20	D40	AQ	45		MD1-1	10	7.5	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	20	D40	AQ		45	MF	10	1.5	6.7			Mg,Si,Ca,Fe Actinolite	AFB>5, PCMEF-US

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	20	D40	CD	46	46	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	20	D30	CD	47	47	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	20	D30	CD	48	48	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
B	21	D20	AQ	49	49	F	11	1	11			Mg,Si,Ca,Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	21	D10	CD	50	50	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	22	B10	CD	51	51	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	22	B10	CD	52	52	F	1	0.1	10			Chrysotile	TAS_AHRA
B	23	B20	CD	53	53	F	1	0.1	10			Chrysotile	TAS_AHRA
B	23	B20	CD	54	54	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	23	B20	AQ	55		MD1-1	13	7.5	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	23	B20	AQ		55	MF	7.5	1.5	5.0			Mg,Si,Ca,Fe Actinolite	AFB>5, PCMEF-US
B	24	B30	CD	56	56	F	1	0.1	10			Chrysotile	TAS_AHRA
B	25	B40	CD	57	57	F	1	0.1	10			Chrysotile	TAS_AHRA
B	25	B40	AQ	58	58	F	5.5	0.75	7.3			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	26	B44	CD	59	59	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	26	B44	CD	60	60	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	27	B24		NSD									
B	28	B4	CD	61	61	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	28	B4	CD	62	62	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	28	B4	AQ	63		MD1-0	3.8	1.5	2.5			Actinolite	TAS_AHRA
B	28	B4	AZQ		63	MF	2.8	0.5	5.6	76	15575	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 1 2] - KM	
B	28	B4	CD	64		MD1-0	2.8	1	2.8			Chrysotile	TAS_AHRA
B	28	B4	CD		64	MF	1.2	0.1	12			Chrysotile	
B	29	C14	CD	65	65	F	2	0.11	18			Chrysotile	TAS_AHRA
B	29	C14	AQ	66	66	F	3.8	0.5	7.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	29	C14	AQ	67	67	F	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	30	C34	AQ	68	68	F	4.5	0.6	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	C43	CD	69	69	F	1	0.08	12			Chrysotile	TAS_AHRA
B	32	C23	AQ	70	70	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	C23	AQ	71		MD1-1	12	4	3.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	32	C23	AQ		71	MF	10	0.8	12			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	32	C23	CD	72	72	F	1.3	0.11	12			Chrysotile	TAS_AHRA
B	32	C23	CD	73	73	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	33	C3	CD	74	74	F	3	0.1	30			Chrysotile	TAS_AHRA
B	34	B13	AQ	75	75	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Tremolite	TAS_AHRA
B	34	B13	AQ	76		MD1-1	13	6	2.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	34	B13	AQ		76	MF	10	1.2	8.3			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	35	B33	CD	77	77	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	35	B33	CD	78	78	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	35	B33	CD	79	79	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	36	B42	CD	80	80	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	37	B22	AQ	81	81	F	12	3.8	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	37	B22	CD	82		MD1-0	1.2	0.8	1.5			Chrysotile	TAS_AHRA
B	37	B22	CD		82	MF	1	0.08	12			Chrysotile	
B	37	B22	CD	83		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
B	37	B22	CD		83	MF	0.6	0.08	7.5			Chrysotile	
B	37	B22	AZQ	84	84	F	5.7	1	5.7	77	15776	Mg, Si, Fe Amosite Zone Axis [7 1 4] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	B2	AQ	85		MD1-1	8	8	1.0			Amosite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	B2	AQ		85	MF	6	0.8	7.5			Actinolite	AFB>5, PCMEF-US
B	38	B2	AQ	86	86	F	1.2	0.35	3.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	38	B2	CD	87	87	F	1.3	0.1	13			Chrysotile	TAS_AHRA
B	39	C12	CD	88	88	F	1.3	0.12	11			Chrysotile	TAS_AHRA
B	39	C12	AQ	89		MD1-0	18	10	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	39	C12	AQ		89	MF	4.8	0.8	6.0			Mg, Al, Si, Ca, Fe Actinolite	
B	39	C12	AQ	90	90	F	4.3	0.38	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	40	C32	CD	91	91	F	1	0.1	10			Chrysotile	TAS_AHRA
C	41	A41	CD	92	92	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	41	A41	CD	93		MD1-0	1.8	0.8	2.2			Chrysotile	TAS_AHRA
C	41	A41	CD		93	MF	0.5	0.08	6.2			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	42	A21	CD	94		MD1-0	1.8	1.5	1.2			Chrysotile	TAS_AHRA
C	42	A21	CD		94	MF	1.8	0.08	22			Chrysotile	
C	42	A21	CD	95	95	F	1.2	0.08	15			Chrysotile	TAS_AHRA
C	42	A21	CD	96	96	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	43	A1	AQ	97	97	F	4.5	0.9	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	43	A1	CD	98	98	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
C	43	A1	AQ	99	99	F	7	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	44	D11	AQ	100	100	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	44	D11	CD	101	101	B	2	0.15	13			Chrysotile	TAS_AHRA
C	44	D11	AQ	102	102	F	4.5	1.2	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	44	D11	CD	103	103	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-2CC-100504 *Lab/Cor Sample No.:* B4771 S6 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A44	CD	1	1	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	1	A44	CDQ	2	2	F	1	0.1	10	1380	1037	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	1	A44	CD	3	3	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	1	A44	CD	4	4	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	2	A24	CD	5		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
A	2	A24	CD		5	MF	1.2	0.08	15			Chrysotile	
A	3	A4	CD	6	6	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	3	A4	CD	7	7	F	1	0.05	20			Chrysotile	TAS_AHRA
A	4	D14	AQ	8	8	F	3.8	0.7	5.4			Actinolite	TAS_AHRA
A	4	D14	CD	9	9	F	1.6	0.1	16			Chrysotile	TAS_AHRA
A	5	D34	AZQ	10	10	F	8	1.2	6.7	1381	1038	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 1 2] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D43	AQ	11	11	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	D43	CD	12	12	F	1.5	0.08	19			Chrysotile	TAS_AHRA
A	7	D23	AQ	13	13	F	1.8	0.35	5.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	7	D23	CD	14	14	F	1.5	0.08	19			Chrysotile	TAS_AHRA
A	8	D3	CD	15	15	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	9	A13	AQ	16	16	F	3	0.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	A33	AQ	17		MD1-0	12	6	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	10	A33	AQ		17	MF	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	
A	11	A42	CD	18	18	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	11	A42	AQ	19	19	F	3.3	0.5	6.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	11	A42	CD	20	20	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	12	A22	AQ	21	21	F	5.5	0.8	6.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	12	A22	CD	22	22	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	12	A22	AZQ	23		MD1-0	5	2	2.5			Tremolite	TAS_AHRA
A	12	A22	AZQ		23	MF	2	0.3	6.7	1382	1039	Mg, Si, Ca, Fe Tremolite Zone Axis [2 1 1] - KM	
A	12	A22	CD	24	24	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	12	A22	CD	25	25	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	12	A22	AQ	26	26	F	1.2	0.12	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	13	A2	CD	27	27	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-2CC-100504 *Lab/Cor Sample No.:* B4771 S6 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	A2	CD	28	28	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	14	D12	CD	29	29	F	1.1	0.08	14			Chrysotile	TAS_AHRA
A	14	D12	CD	30		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
A	14	D12	CD		30	MF	0.8	0.08	10			Chrysotile	
A	15	D32	AQ	31	31	F	4.5	0.45	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D32	AQ	32	32	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D32	CD	33	33	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	15	D32	CD	34	34	F	6	0.1	60			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	16	D41	CD	35	35	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	16	D41	CD	36	36	F	4.2	0.08	52			Chrysotile	TAS_AHRA
A	16	D41	CD	37	37	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	17	D21	CD	38	38	F	0.5	0.05	10			Chrysotile	TAS_AHRA
A	17	D21	AQ	39	39	F	6	1.2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	D21	CD	40	40	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	17	D21	AQ	41	41	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	18	D1	CD	42	42	F	1	0.1	10			Chrysotile	TAS_AHRA
A	18	D1	CD	43		MD1-0	4	3.5	1.1			Chrysotile	TAS_AHRA
A	18	D1	CD		43	MF	1.5	0.12	12			Chrysotile	
A	19	A11	AQ	44	44	F	9	2	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	A11	CD	45	45	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	20	A31	CD	46	46	F	2	0.4	5.0			Mg, Al, Si, Ca, Fe Chrysotile	TAS_AHRA
A	20	A31	CD	47	47	F	1	0.08	12			Chrysotile	TAS_AHRA
A	21	A40	CD	48	48	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	21	A40	AQ	49	49	F	1.3	0.25	5.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	22	A20	CD	50		MD1-0	4.5	1.2	3.7			Chrysotile	TAS_AHRA
A	22	A20	CD		50	MB	1.8	0.12	15			Chrysotile	
A	22	A20	AQ	51	51	F	1	0.25	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	23	A10	AQ	52	52	F	1.8	0.3	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	24	B10	AQ	53	53	F	8	1	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-2CC-100504 *Lab/Cor Sample No.:* B4771 S6 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	'Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	24	B10	AQ	54	54	F	4.8	1.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	24	B10	AQ	55	55	F	20	1.8	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	25	B30	CD	56	56	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	25	B30	AQ	57	57	F	1.2	0.35	3.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	25	B30	CD	58	58	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	26	B31	CD	59	59	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	27	B21	CD	60	60	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	28	B1	AQ	61	61	F	10	0.7	14			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	C11	AQ	62		MD1-0	3	1.5	2.0			Actinolite	TAS_AHRA
A	29	C11	AQ		62	MF	3	0.55	5.5			Mg, Al, Si, Ca, Fe Actinolite	
A	30	C31	CD	63	63	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	30	C31	AQ	64	64	F	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	30	C31	AQ	65	65	F	4.3	1.2	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	30	C31	CD	66	66	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	30	C31	AQ	67	67	F	1.8	0.38	4.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	A44	CD	68	68	F	1	0.1	10			Chrysotile	TAS_AHRA
B	31	A44	CD	69	69	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	32	A24	AQ	70	70	F	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A4	AQ	71		MD1-0	3.8	1.8	2.1			Tremolite	TAS_AHRA
B	33	A4	AQ		71	MF	3.8	0.35	11			Mg, Al, Si, Ca, Fe Tremolite	
B	33	A4	AQ	72	72	F	3.8	0.5	7.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A4	CD	73	73	F	1	0.08	12			Chrysotile	TAS_AHRA
B	33	A4	CD	74	74	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	34	D14	CD	75	75	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	35	D34	AQ	76	76	F	3.7	0.7	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	35	D34	CD	77	77	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	36	D43	CD	78	78	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	36	D43	CD	79		MD1-0	3	1.2	2.5			Chrysotile	TAS_AHRA
B	36	D43	CD		79	MF	0.8	0.1	8.0			Chrysotile	
B	37	D13	CD	80	80	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	37	D13	CD	81	81	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	37	D13	AQ	82	82	F	2.7	0.5	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-2CC-100504 *Lab/Cor Sample No.:* B4771 S6 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	38	D3	CD	83	83	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	38	D3	AQ	84	84	F	6.8	2.2	3.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	39	A13	CMQ	85	85	F	1	0.12	8.3			Chrysotile	TAS_AHRA
B	39	A13	AQ	86	86	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	39	A13	CD	87	87	F	1	0.1	10			Chrysotile	TAS_AHRA
B	39	A13	AQ	88		MD1-1	14	5	2.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	39	A13	AQ		88	MF	9	1.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	40	A33	CD	89	89	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	40	A33	CD	90	90	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	41	A42	CD	91	91	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	41	A42	CD	92	92	F	1	0.1	10			Chrysotile	TAS_AHRA
B	41	A42	CD	93	93	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	42	A22	CD	94	94	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	42	A22	CD	95	95	F	1	0.12	8.3			Chrysotile	TAS_AHRA
B	42	A22	AQ	96	96	B	18	4	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	42	A22	CD	97	97	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	42	A22	CD	98	98	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	42	A22	CD	99	99	F	1	0.1	10			Chrysotile	TAS_AHRA
B	42	A22	CD	100	100	F	1.8	0.1	18			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A44	CD	1	1	F	3.8	0.1	38	1383		Chrysotile Verified - JH	TAS_AHRA
A	1	A44	AQ	2	2	F	4.2	0.65	6.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	A24	CD	3	3	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	3	A4		NSD									
A	4	D14		NSD									
A	5	D34	CD	4	4	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	5	D34	CD	5	5	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	5	D34	AQ	6	6	F	4.2	0.66	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	D34	AQ	7	7	F	4.2	0.4	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	D34	AQ	8	8	F	1.85	0.6	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	D43		NSD									
A	7	D23		NSD									
A	8	D3	AQ	9	9	F	4.5	0.75	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	A13	CD	10	10	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	9	A13	CD	11	11	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	A33	AQ	12	12	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	A33	AQ	13	13	F	18	0.8	22			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	10	A33	CD	14	14	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	11	A43		NSD									
A	12	A41		NSD									
A	13	A21	AQ	15	15	F	10.6	0.8	13			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	14	A1	AZQ	16	16	F	2.5	0.5	5.0	1387	1044	Mg, Si, Ca, Fe Tremolite Zone Axis [3 0 2] - JH	TAS_AHRA
A	14	A1	AQ	17	17	F	3.2	0.6	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D11	AQ	18	18	F	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D11	CDQ	19	19	F	1.2	0.08	15	1388	1045	Mg, Si Chrysotile Verified - JH	TAS_AHRA
A	16	D31		NSD									
A	17	D20	CD	20	20	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	17	D20	AQ	21	21	F	4.5	0.8	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	18	D40	AQ	22	22	F	18	4.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	19	C30		NSD									
A	20	A40	CD	23	23	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	20	A40	AQ	24		MD1-0	6	2.5	2.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	20	A40	AQ		24	MF	4.2	0.9	4.7			Mg, Al, Si, Ca, Fe Actinolite Ferri-actinolite	
A	20	A40	CD	25	25	F	1.1	0.1	11			Chrysotile	TAS_AHRA
A	21	B30		NSD									
A	22	B10	CD	26	26	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	23	C1	AQ	27	27	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	23	C1	AQ	28	28	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	24	C11	AQ	29		MD1-1	16	10	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	24	C11	AQ		29	MF	7	0.8	8.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	24	C11	AQ	30		MD1-1	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	24	C11	AQ		30	MF	8	2	4.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	24	C11	CD	31		MD1-0	1.5	0.8	1.9			Chrysotile	TAS_AHRA
A	24	C11	CD		31	MF	1.5	0.1	15			Chrysotile	
A	24	C11	CD	32	32	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	25	C41	CD	33	33	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	26	B32		NSD									
A	27	B14	AQ	34	34	F	3	0.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	27	B14	CD	35	35	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	28	A44	CD	36	36	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	29	A34	CD	37	37	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	30	D34	CD	38	38	F	1	0.08	12			Chrysotile	TAS_AHRA
B	30	D34	CD	39	39	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	30	D34	CD	40	40	F	1	0.1	10			Chrysotile	TAS_AHRA
B	30	D34	CD	41		MD1-0	1.7	1	1.7			Chrysotile	TAS_AHRA
B	30	D34	CD		41	MF	1.5	0.22	6.8			Mg, Al, Si, Ca, Fe Chrysotile	
B	30	D34	CD	42	42	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	31	A33	CD	43	43	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	31	A33	CD	44	44	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	32	A13		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	33	D3	AQ	45	45	F	8	2.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	D3	CD	46	46	F	1	0.1	10			Chrysotile	TAS_AHRA
B	34	D23	AZQ	47	47	F	9.2	1.3	7.1	1390	1046	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [1 0 1] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	34	D23	AQ	48	48	F	6.3	0.8	7.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	D43	CD	49	49	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	36	A42	CD	50	50	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	37	A22	AQ	51		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
B	37	A22	AQ		51	MF	1.7	0.35	4.9			Mg, Al, Si, Ca, Fe Actinolite	
B	37	A22	CD	52	52	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	38	D12	CDQ	53	53	B	1.3	0.18	7.2			Mg, Si Chrysotile	TAS_AHRA
B	39	D22	CD	54	54	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	40	A31	AQ	55	55	F	4.7	0.55	8.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	41	A11		NSD									
B	42	D1	CD	56	56	F	1	0.1	10			Chrysotile	TAS_AHRA
B	43	D21	CD	57	57	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	43	D21	CD	58		MD1-1	7	1.8	3.9			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	43	D21	CMQ		58	MB	6	0.6	10			Mg, Si Chrysotile	AFB>5, PCMEF-US
B	44	D41	CD	59	59	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	44	D41	AQ	60	60	F	10.2	3	3.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	D41	AQ	61	61	F	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	45	D30	AQ	62	62	F	14	4	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	45	D30	AQ	63	63	F	13.5	2.5	5.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	46	D40	CD	64	64	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	46	D40	CD	65	65	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	46	D40	AQ	66		MD1-1	8.5	4	2.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	D40	AQ		66	MF	8	2	4.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	47	C30	CD	67	67	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	48	C40	AQ	68		MD1-1	13	6	2.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	48	C40	AQ		68	MF	7	0.7	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	48	C40	AQ	69		MD1-0	3.5	0.8	4.4			Actinolite	TAS_AHRA
B	48	C40	AQ		69	MF	3	0.25	12			Mg, Al, Si, Ca, Fe Actinolite	
B	49	A40		NSD									
B	50	B40	CD	70	70	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	50	B40	CD	71	71	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	51	B30	CD	72	72	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	52	B20	CD	73	73	B	2.8	0.38	7.4			Chrysotile	TAS_AHRA
B	52	B20	AQ	74	74	F	3.8	0.5	7.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	52	B20	AQ	75		MD1-0	7	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	52	B20	AQ		75	MF	4.5	0.5	9.0			Mg, Al, Si, Ca, Fe Actinolite	
B	52	B20	AQ	76	76	F	5	0.7	7.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	52	B20	CD	77	77	F	1	0.08	12			Chrysotile	TAS_AHRA
B	53	B10		NSD									
B	54	B31	AQ	78		MD1-1	13.5	8	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	54	B31	AQ		78	MF	13.5	1.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	54	B31	AQ	79	79	F	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	B31	CD	80	80	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	54	B31	AQ	81	81	F	3.2	0.8	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	55	B11		NSD									
B	56	C1	AQ	82	82	F	2.5	0.45	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	56	C1	CD	83	83	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	57	C31		NSD									
B	58	B32	AQ	84	84	F	1.85	0.6	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	58	B32	CD	85		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
B	58	B32	CD		85	MF	1.2	0.1	12			Chrysotile	
B	59	B12	AQ	86		MD1-0	10	3	3.3			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	B12	AQ		86	MF	4	0.4	10			Mg, Al, Si, Ca, Fe Actinolite	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	60	C2	AQ	87	87	F	5.6	0.8	7.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	61	C22		NSD									
B	62	C42	AQ	88	88	F	1.7	0.45	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	62	C42	CD	89	89	F	1.8	0.11	16			Chrysotile	TAS_AHRA
B	63	B13		NSD									
B	64	B3	CD	90	90	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	64	B3	AQ	91	91	F	4.2	0.55	7.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	65	C13	CD	92	92	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
B	65	C13	CD	93	93	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	66	C4	AQ	94	94	F	12	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	66	C4	CD	95	95	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	67	C14	AQ	96	96	F	18	1.8	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	68	B44	CD	97	97	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	68	B44	AQ	98	98	F	2.5	0.35	7.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	69	B34	AQ	99	99	F	12	2.5	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	69	B34	AQ	100	100	F	8	1.2	6.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	69	B34	CD	101	101	F	1.2	0.08	15			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B41	CDQ	1		MD1-0	1.8	0.38	4.7			Chrysotile	TAS_AHRA
A	1	B41	CDQ		1	MF	1.8	0.1	18	87	15784	Mg, Si Chrysotile Verified - KM	
A	2	B11	CD	2	2	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	2	B11	CD	3		MD1-0	0.8	0.15	5.3			Chrysotile	TAS_AHRA
A	2	B11	CD		3	MF	0.5	0.08	6.2			Chrysotile	
A	2	B11	CD	4		MD1-0	10	5	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	2	B11	CD		4	MF	1.8	0.1	18			Chrysotile	
A	2	B11	CD	5		MD1-0	4.8	0.45	11			Chrysotile	TAS_AHRA
A	2	B11	CD		5	MF	4	0.1	40			Chrysotile	
A	2	B11	CD	6	6	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	2	B11	CD	7	7	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	2	B11	CD	8		MD1-0	4	3.5	1.1			Chrysotile	TAS_AHRA
A	2	B11	CD		8	MF	1	0.1	10			Chrysotile	
A	2	B11	AQ	9	9	F	4.2	1.2	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	B11	CD	10		MD1-0	1.8	0.5	3.6			Chrysotile	TAS_AHRA
A	2	B11	CD		10	MF	1.2	0.11	11			Chrysotile	
A	2	B11	CD	11	11	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	2	B11	CD	12		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
A	2	B11	CD		12	MF	0.8	0.08	10			Chrysotile	
A	2	B11	CD	13	13	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	2	B11	CD	14		MD1-0	1.8	0.8	2.2			Chrysotile	TAS_AHRA
A	2	B11	CD		14	MF	1.3	0.08	16			Chrysotile	
A	3	A31	CD	15	15	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	3	A31	CD	16	16	F	1.1	0.1	11			Chrysotile	TAS_AHRA
A	3	A31	CD	17	17	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	3	A31	CD	18		MD1-0	7	6	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	A31	CD		18	MF	0.8	0.1	8.0			Chrysotile	
A	3	A31	CD	19	19	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	3	A31	CD	20	20	F	1.7	0.12	14			Chrysotile	TAS_AHRA
A	3	A31	CD	21		MD1-0	1.7	0.2	8.5			Chrysotile	TAS_AHRA
A	3	A31	CD		21	MF	1.5	0.1	15			Chrysotile	
A	3	A31	CD	22	22	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	3	A31	CD	23		MD1-0	9	3	3.0			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	A31	CD		23	MF	4	0.08	50			Chrysotile	
A	3	A31	CD	24		MD1-0	4	0.8	5.0			Chrysotile	TAS_AHRA
A	3	A31	CD		24	MB	2	0.2	10			Chrysotile	
A	4	A11		NSD									
A	5	D1	CD	25	25	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	5	D1	CD	26	26	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	5	D1	CD	27	27	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	5	D1	CD	28	28	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	5	D1	CD	29		MD1-0	1.2	1.2	1.0			Chrysotile	TAS_AHRA
A	5	D1	CD		29	MF	1.2	0.1	12			Chrysotile	
A	5	D1	CD	30	30	F	1.6	0.1	16			Chrysotile	TAS_AHRA
A	5	D1	CD	31	31	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	5	D1	CD	32	32	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
A	6	D21	CD	33	33	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	6	D21	CD	34	34	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	6	D21	AQ	35		MD1-0	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D21	AQ		35	MF	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	
A	6	D21	CD	36	36	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	6	D21	CD	37	37	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	6	D21	CD	38	38	F	2.2	0.1	22			Chrysotile	TAS_AHRA
A	6	D21	CD	39	39	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	6	D21	AZQ	40	40	F	6.5	1.2	5.4	88	15785	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [4 0 3] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D21	CD	41	41	F	1	0.08	12			Chrysotile	TAS_AHRA
A	6	D21	AQ	42	42	F	6.2	1.7	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	7	D30	CD	43		MD1-0	1.3	0.7	1.9			Chrysotile	TAS_AHRA
A	7	D30	CD		43	MF	0.6	0.08	7.5			Chrysotile	
A	7	D30	CD	44	44	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	7	D30	CD	45	45	F	1.5	0.08	19			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	7	D30	CD	46		MD1-0	8	5.6	1.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	7	D30	CD		46	MF	2.5	0.1	25			Chrysotile	
A	7	D30	CD	47	47	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	7	D30	CD	48	48	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	7	D30	CD	49	49	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	7	D30	CD	50	50	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	7	D30	CD	51	51	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	7	D30	AQ	52	52	F	1.85	0.6	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	A10	CD	53	53	B	2.5	0.15	17			Chrysotile	TAS_AHRA
A	8	A10	CD	54	54	F	2.2	0.12	18			Chrysotile	TAS_AHRA
A	8	A10	CD	55	55	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	8	A10	CD	56	56	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	8	A10	CD	57	57	F	1	0.1	10			Chrysotile	TAS_AHRA
A	8	A10	CD	58	58	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	9	B23	CD	59	59	F	1	0.1	10			Chrysotile	TAS_AHRA
A	9	B23	CD	60	60	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	9	B23	CD	61	61	B	3	0.4	7.5			Chrysotile	TAS_AHRA
A	9	B23	CD	62		MD1-0	3	1.5	2.0			Chrysotile	TAS_AHRA
A	9	B23	CD		62	MF	1	0.1	10			Chrysotile	
A	9	B23	CD	63		MD1-0	8	4	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	9	B23	CD		63	MF	2	0.12	17			Chrysotile	
A	9	B23	CD	64	64	F	3.5	0.12	29			Chrysotile	TAS_AHRA
A	10	B13	CD	65	65	F	1	0.1	10			Chrysotile	TAS_AHRA
A	10	B13	CD	66	66	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	B13	CD	67	67	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	10	B13	CD	68		MD1-0	3.5	2.5	1.4			Chrysotile	TAS_AHRA
A	10	B13	CD		68	MF	1.5	0.1	15			Chrysotile	
A	10	B13	CD	69		MD1-0	3	3	1.0			Chrysotile	TAS_AHRA
A	10	B13	CD		69	MF	0.5	0.08	6.2			Chrysotile	
A	11	C33	CD	70	70	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	11	C33	AQ	71	71	F	6.5	0.7	9.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	11	C33	AQ	72		MD1-0	8	5	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	C33	AQ		72	MF	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	
A	11	C33	AQ	73	73	F	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	C33	CD	74	74	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	11	C33	CD	75	75	F	2.6	0.11	24			Chrysotile	TAS_AHRA
A	11	C33	CD	76	76	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	12	A40	AQ	77	77	F	11	1.2	9.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	12	A40	CD	78	78	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	12	A40	CD	79	79	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Chrysotile	TAS_AHRA
B	12	A40	CD	80	80	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	12	A40	CD	81		MD1-0	1.8	1.2	1.5			Chrysotile	TAS_AHRA
B	12	A40	CD		81	MF	0.6	0.1	6.0			Chrysotile	
B	12	A40	CD	82	82	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	13	A20	CD	83	83	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	13	A20	AQ	84		MD1-0	8	8	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	13	A20	AQ		84	MF	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	
B	13	A20	CD	85		MD1-0	0.8	0.5	1.6			Chrysotile	TAS_AHRA
B	13	A20	CD		85	MF	0.8	0.08	10			Chrysotile	
B	13	A20	AQ	86	86	F	12	0.8	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	13	A20	CD	87	87	F	2	0.08	25			Chrysotile	TAS_AHRA
B	13	A20	CD	88	88	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	14	A10	CD	89	89	F	1	0.1	10			Chrysotile	TAS_AHRA
B	14	A10	CD	90	90	F	2	0.1	20			Chrysotile	TAS_AHRA
B	14	A10	CD	91		MD1-0	4.5	3.8	1.2			Chrysotile	TAS_AHRA
B	14	A10	CD		91	MF	0.8	0.08	10			Chrysotile	
B	14	A10	CD	92	92	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	14	A10	AQ	93	93	F	16	4.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	15	C13	AQ	94	94	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	15	C13	CD	95	95	F	0.8	0.08	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	15	C13	CD	96		MD1-0	3	2	1.5			Chrysotile	TAS_AHRA
B	15	C13	CD		96	MF	1	0.11	9.1			Chrysotile	
B	15	C13	CD	97	97	F	2.2	0.1	22			Chrysotile	TAS_AHRA
B	15	C13	CD	98	98	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	15	C13	CD	99	99	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	15	C13	CD	100		MD1-0	2.5	1.5	1.7			Chrysotile	TAS_AHRA
B	15	C13	CD		100	MF	0.8	0.1	8.0			Chrysotile	
B	15	C13	CD	101	101	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R16

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - REVISED FINAL

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-2CP-100604 *Lab/Cor Sample No.:* B4771 S9 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A41	CDQ	1	1	F	0.8	0.1	8.0	1398	1054	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	1	A41	CD	2	2	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	2	A21	CD	3	3	F	1	0.1	10			Chrysotile	TAS_AHRA
A	3	D41	CD	4	4	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	3	D41	AZQ	5	5	F	5.3	1.2	4.4	1399	1055	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [5 1 2] - KM	AS>5, AFB>5, PCMEF-US, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	B23	CD	6	6	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	4	B23	CD	7	7	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	4	B23	CD	8	8	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	4	B23	AQ	9	9	F	2.5	0.8	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	C22	CD	10	10	F	1	0.08	12			Chrysotile	TAS_AHRA
A	5	C22	AQ	11	11	F	3.8	1.2	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	B42	AQ	12	12	F	24	3.5	6.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	B42	AQ	13	13	F	8	2.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	B42	CD	14	14	F	2	0.1	20			Chrysotile	TAS_AHRA
A	7	B2	CD	15		MD1-0	1.8	1.2	1.5			Chrysotile	TAS_AHRA
A	7	B2	CD		15	MF	0.7	0.1	7.0			Chrysotile	
A	8	B31	CD	16		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
A	8	B31	CD		16	MF	1.5	0.1	15			Chrysotile	
A	8	B31	CD	17	17	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	9	B21	CD	18	18	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	9	B21	CD	19	19	F	1.7	0.1	17			Chrysotile	TAS_AHRA
A	9	B21	CD	20	20	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	D2	CD	21	21	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	11	A12	CD	22	22	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	11	A12	CD	23	23	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	12	B34	CD	24	24	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	12	B34	CD	25	25	B	4.5	0.15	30			Chrysotile	TAS_AHRA
B	12	B34	CD	26	26	B	2.5	0.2	12			Chrysotile	TAS_AHRA
B	13	B14	CD	27	27	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	13	B14	CD	28	28	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA

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Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R16

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - REVISED FINAL

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-2CP-100604 *Lab/Cor Sample No.:* B4771 S9 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	13	B14	CD	29	29	F	2	0.1	20			Chrysotile	TAS_AHRA
B	13	B14	CD	30	30	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	14	B43	CD	31	31	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	14	B43	CD	32	32	F	1	0.08	12			Chrysotile	TAS_AHRA
B	15	B23	CD	33	33	F	0.8	0.05	16			Chrysotile	TAS_AHRA
B	16	C12	CD	34	34	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	16	C12	CD	35	35	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	16	C12	CD	36	36	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	16	C12	CD	37	37	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	17	B11	CD	38	38	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	17	B11	AQ	39		MD1-1	9	5	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	17	B11	AQ		39	MF	8.5	1.5	5.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	17	B11	AQ	40	40	F	9	0.8	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	17	B11	CD	41		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	17	B11	CD		41	MF	2.5	0.1	25			Chrysotile	
B	18	C1	CD	42	42	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	19	C21	CD	43	43	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	19	C21	CD	44	44	F	1.2	0.12	10			Chrysotile	TAS_AHRA
B	19	C21	CD	45	45	B	1.8	0.12	15			Chrysotile	TAS_AHRA
B	19	C21	CD	46	46	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	19	C21	CD	47	47	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	19	C21	CD	48	48	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	19	C21	CD	49	49	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	20	A11	CD	50	50	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	20	A11	CD	51	51	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	20	A11	CD	52	52	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	20	A11	AQ	53	53	F	3.2	0.6	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	21	D11	CD	54	54	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	21	D11	CD	55	55	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	21	D11	CD	56	56	F	1.2	0.12	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R16

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - REVISED FINAL

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-2CP-100604 *Lab/Cor Sample No.:* B4771 S9 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	21	D11	AQ	57	57	F	5.5	0.75	7.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	22	A20	CD	58	58	F	1	0.1	10			Chrysotile	TAS_AHRA
B	22	A20	CD	59	59	F	2	0.08	25			Chrysotile	TAS_AHRA
B	22	A20	CD	60	60	F	2.2	0.1	22			Chrysotile	TAS_AHRA
B	22	A20	CD	61	61	F	1.5	0.11	14			Chrysotile	TAS_AHRA

NSD = No Structures Detected
PAS = Primary Asbestos Structures
PAOS = Primary Asb _Other Amph Structures
TAS = Total Asbestos Structures
TAOS = Total Asb Other Amph Structures
PCMEF-US = PCM Equivalent Fibers-US
PCMES-US = PCM Equivalent Structures-US
PCMEF-ISO = PCM Equivalent Fibers-ISO
PCMES-ISO = PCM Equivalent Structures-ISO
PSAS 5-10 = PROTOCOL ASB STRUCS 5-10
PSAS >10 = PROTOCOL ASB STRUCS >10

CF = Cleavage Fragments
TS = Transitional Structures

PSAS TOT = PROTOCOL ASB STRUC TOTAL
PSAOS 5-10 = PROTOCOL ASB/OTHER AMPH 5-10
PSAOS>10 = PROTOCOL ASB/OTHER AMPH >10
PSAOS TOT=PROTOCOL ASB/OTHER AMPH TOTAL
PSCH 5-10 = PROTOCOL CHRYS STRUCS 5-10
PSCH >10 = PROTOCOL CHRYS STRUCS >10
PSCH TOT = PROTOCOL CHRYS STRUCS TOTAL
PSAM 5-10 = PROTOCOL AMPH STRUCS 5-10
PSAM >10 = PROTOCOL AMPH STRUCS >10
PSAM TOT = PROTOCOL AMPH STRUCS TOTAL
PSOS 5-10 = PROTOCOL OTHER AMPH 5-10
PSOS >10 = PROTOCOL OTHER AMPH >10
PSOS TOT = PROTOCOL OTHER AMPH TOTAL

TAS_AHRA = AHERA-like Total Strucs 3:1
AS>5_AHRA = AHERA-like Asb Strucs >5 and 3:1
AS5-10_AHRA = AHERA-like Asb Strucs 5 - 10 and 3:1
AS>10_AHRA = AHERA-like Asb Strucs >10 and 3:1
TOS_AHRA = Total Other Amphibole Strucs 3:1
OS>5_AHRA = Other Amphibole Struc >5 and 3:1
OS5-10_AHRA = Other Amphibole Struc 5 - 10 and 3:1
OS>10_AHRA = Other Amphibole Strucs >10 and 3:1
AS>5 = Asbestos Structures > 5um
AFB>5 = Asbestos Fibers and Bundles > 5um

PChS = Primary Chrysotile Structures
PAmS = Primary Amphibole Structures

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-L6-2CB-100604 *Lab/Cor Sample No.:* B4771 S12 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44		NSD									
A	2	B34		NSD									
A	3	B24		NSD									
A	4	B14		NSD									
A	5	B4		NSD									
A	6	C4		NSD									
A	7	C14		NSD									
A	8	C24	AZQ	1		MD1-0	6	6	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	8	C24	AZQ		1	MF	2	0.25	8.0	89	15786	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 -1 2] - KM	
A	9	C22	CDQ	2	2	F	2.5	0.1	25	90	15787	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	9	C22	CD	3	3	F	1	0.1	10			Chrysotile	TAS_AHRA
A	9	C22	CD	4	4	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	C12	CD	5	5	F	1	0.1	10			Chrysotile	TAS_AHRA
A	11	C2		NSD									
A	12	B2		NSD									
A	13	B12		NSD									
A	14	B22	AQ	6		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	14	B22	AQ		6	MF	15	0.65	23			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	15	B32	CD	7	7	F	1	0.1	10			Chrysotile	TAS_AHRA
A	16	B42	AQ	8	8	F	9.5	2.5	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	B40		NSD									
A	18	B30	CD	9	9	F	1	0.1	10			Chrysotile	TAS_AHRA
A	18	B30	CD	10	10	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	19	B20	CD	11	11	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
A	20	B10	CD	12	12	F	1	0.1	10			Chrysotile	TAS_AHRA
A	21	C10	CD	13	13	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	22	C20	CD	14	14	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	22	C20	CD	15	15	F	1	0.1	10			Chrysotile	TAS_AHRA
A	23	C30		NSD									
B	24	B34	CD	16	16	F	1.2	0.1	12			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-L6-2CB-100604 *Lab/Cor Sample No.:* B4771 S12 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	25	B33	CD	17		MD2-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	25	B33	CD		17	MB	2.5	0.2	12			Chrysotile	
B	25	B33	CD		18	MB	2	0.2	10			Chrysotile	
B	25	B33	CD	18	19	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	26	B32	CD	19	20	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	27	B31	CD	20		MD1-1	25	20	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	27	B31	CD		21	MF	5.5	0.1	55			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	27	B31	CD	21	22	F	1	0.1	10			Chrysotile	TAS_AHRA
B	27	B31	CD	22	23	F	1	0.1	10			Chrysotile	TAS_AHRA
B	27	B31	CD	23	24	F	1	0.1	10			Chrysotile	TAS_AHRA
B	28	B30	CD	24	25	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	29	A30		NSD									
B	30	A31		NSD									
B	31	A21	CD	25	26	F	1	0.1	10			Chrysotile	TAS_AHRA
B	31	A21	CD	26	27	F	1.3	0.1	13			Chrysotile	TAS_AHRA
B	32	A11		NSD									
B	33	A1	AQ	27	28	F	1.2	0.25	4.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A1	AQ	28	29	F	1.2	0.2	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A1	CD	29	30	F	4	0.1	40			Chrysotile	TAS_AHRA
B	34	D1	CD	30	31	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	34	D1	CD	31	32	F	1	0.1	10			Chrysotile	TAS_AHRA
B	34	D1	CD	32	33	F	1	0.1	10			Chrysotile	TAS_AHRA
B	34	D1	CD	33	34	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	35	D11	CD	34	35	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	36	D21	CD	35	36	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	37	D31		NSD									
B	38	D41		NSD									
B	39	B42	CD	36	37	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
B	40	B32		NSD									
B	41	B22	AQ	37	38	F	2.5	0.5	5.0			Actinolite	TAS_AHRA
B	41	B22	CD	38	39	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	42	B12		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-L6-2CB-100604 *Lab/Cor Sample No.:* B4771 S12 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	43	B2	CD	39	40	F	1	0.1	10			Chrysotile	TAS_AHRA
B	44	C2	AQ	40	41	F	17	4.5	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	C2	CD	41	42	F	1	0.1	10			Chrysotile	TAS_AHRA
B	44	C2	CD	42	43	F	1	0.1	10			Chrysotile	TAS_AHRA
B	44	C2	CD	43	44	F	1	0.1	10			Chrysotile	TAS_AHRA
B	45	C12		NSD									
B	46	C22		NSD									
B	47	C42	CD	44	45	F	1	0.1	10			Chrysotile	TAS_AHRA
B	48	C32		NSD									
C	49	B41		NSD									
C	50	B31	CD	45	46	F	2	0.1	20			Chrysotile	TAS_AHRA
C	50	B31	CD	46	47	F	1	0.1	10			Chrysotile	TAS_AHRA
C	50	B31	CD	47	48	F	1	0.1	10			Chrysotile	TAS_AHRA
C	51	B21		NSD									
C	52	B11	CD	48	49	F	1	0.1	10			Chrysotile	TAS_AHRA
C	52	B11	CD	49	50	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	53	B1	CD	50	51	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	53	B1	CD	51	52	F	1	0.1	10			Chrysotile	TAS_AHRA
C	53	B1	CD	52	53	F	1	0.1	10			Chrysotile	TAS_AHRA
C	54	C11	CD	53		MD1-0	5	5	1.0			Chrysotile	TAS_AHRA
C	54	C11	CD		54	MB	1.2	0.3	4.0			Chrysotile	
C	55	C1		NSD									
C	56	C21	CD	54	55	F	1	0.1	10			Chrysotile	TAS_AHRA
C	57	C31	CD	55	56	F	1	0.1	10			Chrysotile	TAS_AHRA
C	58	C41		NSD									
C	59	C40	AQ	56		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	59	C40	AQ		57	MF	8	1.3	6.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	60	C30		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-H2-3FD-100504 *Lab/Cor Sample No.:* B4771 S15 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B24		NSD									
A	2	B22		NSD									
A	3	B20		NSD									
A	4	A21		NSD									
A	5	A23	AQ	1		MD1-1	15.2	11.5	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	5	A23	AQ		1	MF	15.2	1.5	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	6	A12		NSD									
A	7	A10		NSD									
A	8	B11		NSD									
A	9	B13		NSD									
A	10	B4		NSD									
A	11	B2		NSD									
A	12	A1		NSD									
A	13	A3	AZQ	2	2	F	2.1	0.25	8.4	5875	15794	Mg, Si, Ca, Fe Actinolite Zone Axis [0 2 5] - KM	TAS_AHRA
A	14	D2		NSD									
A	15	C1		NSD									
A	16	C14		NSD									
A	17	C10		NSD									
A	18	D11		NSD									
A	19	D13		NSD									
A	20	D24		NSD									
A	21	D22		NSD									
A	22	D20		NSD									
A	23	C21		NSD									
A	24	C23		NSD									
A	25	C34		NSD									
A	26	C32		NSD									
A	27	C30		NSD									
A	28	D31		NSD									
A	29	D33		NSD									
A	30	D42		NSD									
B	31	C44	CDQ	3	3	F	0.75	0.1	7.5	93	15796	Mg, Si, Fe Chrysotile iTEM Image - Verified - KM	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-H2-3FD-100504 *Lab/Cor Sample No.:* B4771 S15 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	C42	AQ	4	4	F	5.3	0.25	21			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C40		NSD									
B	34	D41		NSD									
B	35	D43		NSD									
B	36	D32	CD	5	5	F	1.2	0.1	12	94		Chrysotile iTEM Image - Verified - KM	TAS_AHRA
B	37	A41		NSD									
B	38	A31		NSD									
B	39	A21		NSD									
B	40	A11	CD	6		MD1-0	25	20	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	40	A11	CD		6	MB	2.5	0.2	12			Chrysotile	
B	41	A1		NSD									
B	42	D1		NSD									
B	43	D11		NSD									
B	44	D21		NSD									
B	45	D41		NSD									
B	46	A22		NSD									
B	47	A12		NSD									
B	48	A2		NSD									
B	49	D2		NSD									
B	50	D12		NSD									
B	51	D22		NSD									
B	52	D42		NSD									
B	53	B41		NSD									
B	54	B31		NSD									
B	55	B21		NSD									
B	56	B11		NSD									
B	57	B1		NSD									
B	58	C1		NSD									
B	59	C11		NSD									
B	60	C21		NSD									
B	61	C31		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-H2-3FD-100504 *Lab/Cor Sample No.:* B4771 S15 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	62	B44		NSD									
C	63	B34		NSD									
C	64	B24		NSD									
C	65	B14		NSD									
C	66	B4		NSD									
C	67	C14	AQ	7		MD1-1	15	7.5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	67	C14	AQ		7	MF	12.5	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	68	C4		NSD									
C	69	C24		NSD									
C	70	C34		NSD									
C	71	C44		NSD									
C	72	B42		NSD									
C	73	B32		NSD									
C	74	B22		NSD									
C	75	B12		NSD									
C	76	B2		NSD									
C	77	C2		NSD									
C	78	C12		NSD									
C	79	C22		NSD									
C	80	C32		NSD									
C	81	C42		NSD									
C	82	B40	CD	8	8	F	1	0.1	10			Chrysotile	TAS_AHRA
C	83	B20	CD	9	9	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
C	84	B10		NSD									
C	85	C10		NSD									
C	86	C20		NSD									
C	87	C30		NSD									
C	88	C40		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A44		NSD									
A	2	A22	AZQ	1	1	F	1.5	0.4	3.8	1391	1047	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 1] - JH	TAS_AHRA
A	3	A24		NSD									
A	4	A4		NSD									
A	5	D14		NSD									
A	6	D34	CDQ	2	2	F	0.6	0.05	12	1392	1048	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	7	D44	CDQ	3		MD1-0	12	6	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	7	D44	CDQ		3	MF	2.5	0.06	42			Mg, Si Chrysotile	
A	7	D44	AQ	4	4	F	4.2	0.8	5.2			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	D42		NSD									
A	9	D22	AQ	5		MD1-0	7.5	3	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	9	D22	AQ		5	MF	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	
A	10	D2		NSD									
A	11	A12		NSD									
A	12	A32		NSD									
A	13	A42		NSD									
A	14	A10	AQ	6		MD1-1	15	9	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	14	A10	AQ		6	MF	11	2.5	4.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	15	D10		NSD									
A	16	D30		NSD									
A	17	D40	CDQ	7	7	F	1.5	0.06	25			Mg, Si Chrysotile	TAS_AHRA
A	18	C41		NSD									
A	19	C21		NSD									
A	20	C1		NSD									
A	21	B1		NSD									
A	22	B11		NSD									
A	23	B21		NSD									
A	24	B13	CDQ	8	8	F	1	0.05	20			Mg, Si Chrysotile	TAS_AHRA
A	25	B3		NSD									
A	26	C3		NSD									
A	27	C23	CDQ	9		MD1-1	11	6	1.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	27	C23	CDQ		9	MF	9.5	0.06	160			Mg, Si Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
A	28	C43		NSD									
A	29	C34		NSD									
A	30	B4	CDQ	10	10	F	1.6	0.06	27			Mg, Si Chrysotile	TAS_AHRA
B	31	B44		NSD									
B	32	B24	CDQ	11	11	F	2.5	0.06	42			Mg, Si Chrysotile	TAS_AHRA
B	33	B4		NSD									
B	34	C4		NSD									
B	35	B43		NSD									
B	36	B23		NSD									
B	37	B3		NSD									
B	38	C13		NSD									
B	39	B12	AQ	12		MD1-0	2.5	2	1.2			Actinolite	TAS_AHRA
B	39	B12	AQ		12	MF	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	
B	40	C2		NSD									
B	41	C12		NSD									
B	42	C32		NSD									
B	43	B1		NSD									
B	44	C1		NSD									
B	45	C11		NSD									
B	46	C21	AQ	13	13	F	12	2	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	46	C21	AZQ	14		MD1-1	9	3.5	2.6			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	C21	AZQ		14	MF	9	1.9	4.7	1393	1049	Mg, Al, Si, Ca, Fe Tremolite Zone Axis [2 1 1] - KM	AFB>5, PCMEF-US
B	47	C31		NSD									
B	48	C41		NSD									
B	49	B10		NSD									
B	50	C10		NSD									
B	51	C30		NSD									
B	52	C40		NSD									
B	53	A40	AQ	15	15	F	14	2.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	54	A20		NSD									
B	55	A10		NSD									
B	56	D10		NSD									
B	57	D30		NSD									
B	58	D40		NSD									
B	59	A41	CD	16	16	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	60	A21		NSD									
B	61	A1		NSD									
C	62	B44	AQ	17		MD1-0	4.7	1.5	3.1			Actinolite	TAS_AHRA
C	62	B44	AQ		17	MF	4.7	0.7	6.7			Mg, Al, Si, Ca, Fe Actinolite	
C	63	B24	AQ	18	18	F	15	2.2	6.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	64	B4		NSD									
C	65	C14	AQ	19	19	F	6.5	0.7	9.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	66	C24		NSD									
C	67	C34		NSD									
C	68	B33	CD	20	20	F	3.5	0.1	35			Chrysotile	TAS_AHRA
C	69	B13	AQ	21	21	F	4.5	0.4	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	B13	CD	22	22	F	1.2	0.08	15			Chrysotile	TAS_AHRA
C	70	C3		NSD									
C	71	C23		NSD									
C	72	C43		NSD									
C	73	C12	CD	23	23	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
C	74	C22		NSD									
C	75	C42		NSD									
C	76	B31		NSD									
C	77	B1		NSD									
C	78	C1	CD	24	24	F	0.6	0.11	5.5			Chrysotile	TAS_AHRA
C	78	C1	CD	25	25	F	1.8	0.11	16			Chrysotile	TAS_AHRA
C	78	C1	CD	26	26	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	79	C11		NSD									
C	80	A20	CD	27	27	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
C	81	B10		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	82	C10		NSD									
C	83	D10		NSD									
C	84	A1	AQ	28	28	F	4	0.35	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	85	D1		NSD									
C	86	A2	CD	29	29	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	87	D2		NSD									
C	88	A43	CD	30	30	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	89	A13		NSD									
C	90	A3		NSD									
D	91	B44		NSD									
D	92	B24		NSD									
D	93	B4		NSD									
D	94	C14		NSD									
D	95	C34		NSD									
D	96	B33	CD	31		MD1-0	3	0.8	3.8			Chrysotile	TAS_AHRA
D	96	B33	CD		31	MF	1.2	0.08	15			Chrysotile	
D	97	B13		NSD									
D	98	C3		NSD									
D	99	C23		NSD									
D	100	C33		NSD									
D	101	B42	CD	32	32	F	2.4	0.11	22			Mg, Al, Si, Ca, Fe Chrysotile	TAS_AHRA
D	102	B22	AQ	33		MD1-0	15	5	3.0			Actinolite	AS>5, TAS_AHRA; AS>5_AHRA, AS>10_AHRA
D	102	B22	AQ		33	MF	2.1	0.38	5.5			Mg, Al, Si, Ca, Fe Actinolite	
D	103	B2		NSD									
D	104	C12	AQ	34	34	F	4.5	0.35	13			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	105	C32		NSD									
D	106	B31		NSD									
D	107	B11		NSD									
D	108	C1	CD	35	35	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
D	108	C1	AQ	36	36	F	4.6	1	4.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	109	C21		NSD									
D	110	C41		NSD									
D	111	A41		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	112	A31		NSD									
D	113	A11		NSD									
D	114	D1	CD	37		MD1-0	15	8	1.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	114	D1	CD		37	MF	0.8	0.08	10			Chrysotile	
D	115	D21	CDQ	38	38	B	3.2	0.2	16			Mg, Si Chrysotile	TAS_AHRA
D	116	B40		NSD									
D	117	B30	AQ	39		MD1-1	8	3.5	2.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	117	B30	AQ		39	MF	8	1.2	6.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	118	B10		NSD									
D	119	C20	CD	40		MD1-0	1.2	0.35	3.4			Chrysotile	TAS_AHRA
D	119	C20	CD		40	MF	1.2	0.1	12			Chrysotile	
D	120	C40	AQ	41	41	F	5	1	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	121	B14		NSD									
E	122	C4		NSD									
E	123	C24		NSD									
E	124	C44		NSD									
E	125	B13		NSD									
E	126	B3		NSD									
E	127	C13	CD	42	42	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
E	128	C33	CD	43	43	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	129	B12		NSD									
E	130	C2	CD	44	44	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
E	131	C22		NSD									
E	132	C42		NSD									
E	133	B11	AQ	45		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
E	133	B11	AQ		45	MF	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	
E	133	B11	CD	46	46	F	1.8	0.1	18			Chrysotile	TAS_AHRA
E	134	C1		NSD									
E	135	C21		NSD									
E	136	C31	CD	47	47	F	0.8	0.05	16			Chrysotile	TAS_AHRA
E	137	C41	CD	48	48	F	2	0.1	20			Chrysotile	TAS_AHRA
E	137	C41	AQ	49	49	F	2.8	0.6	4.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	138	C10		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	139	C20	CD	50		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
E	139	C20	CD		50	MF	1	0.1	10			Chrysotile	
E	140	C30		NSD									
E	141	C40		NSD									
E	142	D10	CD	51		MD1-0	2	0.6	3.3			Chrysotile	TAS_AHRA
E	142	D10	CD		51	MF	2	0.1	20			Chrysotile	
E	142	D10	CD	52	52	F	0.8	0.08	10			Chrysotile	TAS_AHRA
E	143	D20	AQ	53		MD1-1	16	6.5	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	143	D20	AQ		53	MF	16	2.5	6.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
E	144	D40		NSD									
E	145	A11	CD	54	54	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
E	146	D1		NSD									
E	147	D21		NSD									
E	148	D41		NSD									
E	149	D12	CD	55	55	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	150	D32		NSD									
F	151	B44		NSD									
F	152	B24	AQ	56	56	F	4.5	1.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	153	B4	CDQ	57	57	B	2.7	0.25	11			Mg, Si Chrysotile	TAS_AHRA
F	154	C24		NSD									
F	155	C34		NSD									
F	156	B33	AQ	58	58	F	3.2	0.5	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	157	B13		NSD									
F	158	C3	AQ	59		MD1-1	12.5	7	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
F	158	C3	AQ		59	MF	7	1	7.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	159	C23	CD	60	60	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
F	160	C43	CD	61	61	F	1.8	0.1	18			Chrysotile	TAS_AHRA
F	161	C1		NSD									
F	162	C11	CD	62	62	F	2.2	0.1	22			Chrysotile	TAS_AHRA
F	163	C21	AQ	63		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
F	163	C21	AQ		63	MF	7	0.8	8.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	164	C41		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
F	165	A31		NSD									
F	166	A11		NSD									
F	167	D1		NSD									
F	168	D21	AQ	64		MD1-1	9	2	4.5			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	168	D21	AQ		64	MF	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	168	D21	AQ	65	65	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	169	D41		NSD									
F	170	A2		NSD									
F	171	D12		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-2CH-100504 *Lab/Cor Sample No.:* B4771 S20 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A31		NSD									
A	2	A1		NSD									
A	3	D1	AZQ	1	1	F	2	0.6	3.3	1401	1056	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [9 1 4] - KM	TAS_AHRA
A	4	D21	CDQ	2	2	F	0.8	0.1	8.0	1402	1057	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	D21	CD	3		MD1-0	3	2	1.5			Chrysotile	TAS_AHRA
A	4	D21	CD		3	MF	0.8	0.1	8.0			Chrysotile	
A	5	D31	CDQ	4	4	F	2.1	0.05	42			Mg, Si Chrysotile	TAS_AHRA
A	5	D31	CDQ	5	5	F	1.2	0.1	12			Mg, Si Chrysotile	TAS_AHRA
A	6	D41	CDQ	6	6	F	1	0.07	14			Mg, Si Chrysotile	TAS_AHRA
A	7	D43		NSD									
A	8	D23		NSD									
A	9	D3		NSD									
A	10	A13	AQ	7	7	F	7	0.8	8.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	A33	CDQ	8	8	F	1	0.05	20			Mg, Si Chrysotile	TAS_AHRA
A	12	A43	CDQ	9	9	F	1.7	0.1	17			Mg, Si Chrysotile	TAS_AHRA
A	12	A43	AQ	10	10	F	5.2	0.4	13			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	A14	CD	11	11	F	1.5	0.05	30			Chrysotile	TAS_AHRA
A	13	A14	AQ	12	12	F	4.9	1.1	4.5			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	13	A14	CDQ	13	13	F	1	0.07	14			Mg, Si Chrysotile	TAS_AHRA
A	14	D4	AQ	14	14	F	4	0.5	8.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D24		NSD									
A	16	D44	CD	15	15	F	1.1	0.05	22			Chrysotile	TAS_AHRA
A	16	D44	CD	16	16	F	1	0.05	20			Chrysotile	TAS_AHRA
A	17	C40	CD	17	17	F	0.7	0.05	14			Chrysotile	TAS_AHRA
A	17	C40	CD	18	18	F	1.6	0.05	32			Chrysotile	TAS_AHRA
A	18	C30		NSD									
A	19	C10		NSD									
A	20	A10		NSD									
A	21	A30		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-2CH-100504 *Lab/Cor Sample No.:* B4771 S20 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	22	B2	AQ	19	19	F	2	0.4	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	23	C2	CD	20	20	F	0.9	0.05	18			Chrysotile	TAS_AHRA
A	23	C2	CD	21	21	F	0.6	0.05	12			Chrysotile	TAS_AHRA
B	24	A44		NSD									
B	25	A24	CD	22	22	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	26	A4		NSD									
B	27	D14	CD	23	23	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	27	D14	AQ	24	24	F	14	2.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	28	D34		NSD									
B	29	A33	CD	25	25	F	1	0.1	10			Chrysotile	TAS_AHRA
B	29	A33	CD	26		MD1-0	3.8	0.7	5.4			Chrysotile	TAS_AHRA
B	29	A33	CD		26	MF	0.7	0.1	7.0			Chrysotile	
B	29	A33	CD	27	27	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	29	A33	AQ	28	28	F	1.8	0.25	7.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	29	A33	AQ	29	29	F	2.6	0.6	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	29	A33	CD	30	30	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	30	A13	CD	31	31	F	1	0.1	10			Chrysotile	TAS_AHRA
B	30	A13	AQ	32	32	F	3.5	0.8	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	30	A13	AQ	33	33	F	7.5	2.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	D3	CD	34	34	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	32	D23	CD	35	35	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	33	D42	AQ	36	36	F	6	1.1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	D42	CD	37		MD1-0	5.5	2	2.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	D42	CD		37	MF	1.2	0.08	15			Chrysotile	
B	34	D12		NSD									
B	35	A2	AQ	38	38	F	3.6	0.4	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	36	A22	AQ	39		MD1-1	14	6	2.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	A22	AQ		39	MF	10	2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	37	A42	CD	40	40	F	2	0.1	20			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-2CH-100504 *Lab/Cor Sample No.:* B4771 S20 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	38	A31	CD	41	41	F	1	0.1	10			Chrysotile	TAS_AHRA
B	39	A11	CD	42	42	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	40	D1		NSD									
B	41	D21	AQ	43	43	F	18	4	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	42	D41	AQ	44	44	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	42	D41	CD	45	45	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	42	D41	CD	46	46	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	43	C41	CD	47	47	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	44	C21	AQ	48	48	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	44	C21	AQ	49	49	F	4	1	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	45	C1	AQ	50	50	F	2	0.2	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	46	B11	AQ	51	51	F	2.8	0.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	46	B11	CD	52	52	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	47	B31		NSD									
B	48	B42	CD	53	53	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	49	B22	AQ	54	54	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	50	B2		NSD									
B	51	C12	AQ	55	55	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	52	C32	AQ	56	56	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	52	C32	CD	57	57	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	53	C43	CD	58	58	F	1.5	0.12	12			Chrysotile	TAS_AHRA
B	54	C23	AQ	59	59	F	4.5	0.5	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	C23	AQ	60	60	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	C23	AQ	61	61	F	3.2	1	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	C23	AQ	62	62	F	5.8	1.8	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	C3	CD	63	63	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	56	B13	CD	64		MD1-0	2.5	0.8	3.1			Chrysotile	TAS_AHRA
B	56	B13	CD		64	MF	1.6	0.1	16			Chrysotile	
B	57	B33		NSD									
B	58	B40	AQ	65	65	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	59	B30	CD	66	66	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-2CH-100504 *Lab/Cor Sample No.:* B4771 S20 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	60	B10		NSD									
C	61	A12		NSD									
C	62	A2		NSD									
C	63	D3	CD	67	67	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	64	D13	CD	68	68	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	65	D23		NSD									
C	66	D34		NSD									
C	67	D44		NSD									
C	68	D42	AQ	69	69	F	2.5	0.3	8.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	D22		NSD									
C	70	D2	CD	70	70	F	1.5	0.07	21			Chrysotile	TAS_AHRA
C	71	A12		NSD									
C	72	A11	AQ	71		MD1-0	8	6	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	A11	AQ		71	MF	2.4	0.3	8.0			Mg, Al, Si, Ca, Fe Actinolite	
C	72	A11	CD	72	72	F	0.6	0.05	12			Chrysotile	TAS_AHRA
C	73	A21	CD	73	73	F	1	0.05	20			Chrysotile	TAS_AHRA
C	74	A40	CD	74	74	F	1	0.05	20			Chrysotile	TAS_AHRA
C	75	A20		NSD									
C	76	A10	CD	75	75	F	0.7	0.05	14			Chrysotile	TAS_AHRA
C	76	A10	CD	76	76	F	1.2	0.05	24			Chrysotile	TAS_AHRA
C	76	A10	CD	77	77	F	0.6	0.05	12			Chrysotile	TAS_AHRA
C	77	D10	CD	78	78	F	1	0.06	17			Chrysotile	TAS_AHRA
C	78	D30		NSD									
D	79	A43		NSD									
D	80	A23	AQ	79	79	F	6	0.7	8.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	81	A3	AQ	80	80	F	7.5	1.8	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	81	A3	AQ	81	81	F	1.8	0.3	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	82	D13	AQ	82	82	F	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	83	D22	CD	83	83	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
D	84	D2	CD	84	84	F	1	0.11	9.1			Chrysotile	TAS_AHRA

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Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	84	D2	AQ	85	85	F	7	1.1	6.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	85	A12	CD	86	86	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
D	86	A22		NSD									
D	87	A31	AQ	87	87	F	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	87	A31	AQ	88	88	F	9	2	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	88	A11		NSD									
D	89	D1	CD	89	89	B	2.5	0.2	12			Chrysotile	TAS_AHRA
D	89	D1	CD	90	90	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
D	89	D1	CD	91	91	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
D	90	D11	AQ	92	92	F	10	1.2	8.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	91	D21	AQ	93		MD1-0	4.5	2	2.2			Actinolite	TAS_AHRA
D	91	D21	AQ		93	MF	4.3	0.8	5.4			Mg, Al, Si, Ca, Fe Actinolite	
D	91	D21	CD	94	94	F	0.8	0.08	10			Chrysotile	TAS_AHRA
D	92	D31	AQ	95	95	F	4.5	1.2	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	92	D31	CD	96	96	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
D	93	C31	CD	97	97	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
D	93	C31	CD	98	98	F	0.8	0.05	16			Chrysotile	TAS_AHRA
D	94	C11	AQ	99	99	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	94	C11	CD	100		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
D	94	C11	CD		100	MF	1.8	0.12	15			Chrysotile	

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A34	CDQ	1		MD1-0	15	12	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	1	A34	CDQ		1	MF	2.6	0.05	52	117	1050	Mg, Si Chrysotile iTEM Image - Verified - KM	
A	1	A34	AZQ	2	2	F	14	1.2	12	1395	1061	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [7 1 6] - JH	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	2	A14	CD	3		MD1-0	2.5	1.2	2.1			Chrysotile	TAS_AHRA
A	2	A14	CD		3	MF	0.7	0.05	14			Chrysotile	
A	2	A14	CDQ	4	4	F	0.7	0.1	7.0			Mg, Si Chrysotile	TAS_AHRA
A	2	A14	CDQ	5	5	F	1.2	0.06	20			Mg, Si Chrysotile	TAS_AHRA
A	2	A14	CDQ	6	6	F	1.1	0.06	18			Mg, Si Chrysotile	TAS_AHRA
A	3	D4	CDQ	7		MD1-0	3.5	2.5	1.4			Chrysotile	TAS_AHRA
A	3	D4	CDQ		7	MF	2.5	0.06	42			Mg, Si Chrysotile	
A	4	D24	CD	8		MD1-0	4.5	2.3	2.0			Chrysotile	TAS_AHRA
A	4	D24	CD		8	MF	1	0.05	20			Chrysotile	
A	4	D24	CDQ	9	9	F	1.2	0.06	20			Mg, Si Chrysotile	TAS_AHRA
A	4	D24	AQ	10	10	F	4	0.75	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	D44		NSD									
A	6	D42	AQ	11	11	F	7	0.25	28			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D42	CDQ	12		MD1-0	2.3	1.2	1.9			Chrysotile	TAS_AHRA
A	6	D42	CDQ		12	MF	0.9	0.1	9.0			Mg, Si Chrysotile	
A	6	D42	CDQ	13	13	B	22	1.2	18			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	D42	CD	14	14	F	1.2	0.05	24			Chrysotile	TAS_AHRA
A	7	D22		NSD									
A	8	D2	CDQ	15	15	B	1.6	0.2	8.0			Mg, Si Chrysotile	TAS_AHRA
A	8	D2	CDQ	16	16	F	1.2	0.1	12			Mg, Si Chrysotile	TAS_AHRA
A	9	A12	CDQ	17	17	F	1.1	0.06	18			Mg, Si Chrysotile	TAS_AHRA
A	10	A32		NSD									
A	11	A42		NSD									
A	12	A40	CMQ	18		MD1-0	1	0.4	2.5			Chrysotile	TAS_AHRA
A	12	A40	CMQ		18	MF	0.8	0.05	16			Mg, Si Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	A20	CDQ	19	19	F	1.6	0.05	32			Mg, Si Chrysotile	TAS_AHRA
A	13	A20	CDQ	20	20	F	1.6	0.06	27			Mg, Si Chrysotile	TAS_AHRA
A	14	A10		NSD									
A	15	D10		NSD									
A	16	D30		NSD									
A	17	D40	CDQ	21	21	F	1.4	0.05	28			Mg, Si Chrysotile	TAS_AHRA
A	17	D40	CDQ	22	22	F	1	0.05	20			Mg, Si Chrysotile	TAS_AHRA
A	17	D40	AQ	23	23	F	11	2	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	17	D40	CDQ	24	24	F	4	0.06	67			Mg, Si Chrysotile	TAS_AHRA
A	18	C41	CDQ	25	25	F	1	0.06	17			Mg, Si Chrysotile	TAS_AHRA
A	19	C21	CDQ	26	26	B	1.8	0.22	8.2			Mg, Si Chrysotile	TAS_AHRA
A	19	C21	CD	27	27	F	1	0.1	10			Chrysotile	TAS_AHRA
A	20	C1	AQ	28	28	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	20	C1	CD	29	29	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	21	B11	CD	30	30	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	22	B31	CD	31	31	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	22	B31	CD	32	32	F	1.1	0.1	11			Chrysotile	TAS_AHRA
A	23	A41		NSD									
A	24	A21	CD	33	33	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	25	A1		NSD									
A	26	D11	CD	34	34	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	27	D31	AQ	35	35	F	8	0.5	16			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	28	B40	CD	36		MD1-0	8.5	3.5	2.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	28	B40	CD		36	MB	1.6	0.22	7.3			Chrysotile	
A	29	B30	AQ	37	37	F	5.8	0.7	8.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	B30	CD	38		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
A	29	B30	CD		38	MF	0.8	0.08	10			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	29	B30	CD	39	39	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	30	B10	AQ	40	40	F	4	0.45	8.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	B44		NSD									
B	32	B24	CD	41	41	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	33	B4	CD	42	42	F	2.2	0.12	18			Chrysotile	TAS_AHRA
B	34	C14	AQ	43	43	F	5	0.6	8.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	34	C14	CD	44		MD1-0	12	6	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	34	C14	CD		44	MF	4	0.1	40			Chrysotile	
B	35	C34	CD	45		MD1-0	8	3	2.7			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	C34	CD		45	MF	4	0.12	33			Chrysotile	
B	35	C34	AQ	46	46	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	36	B33	CD	47		MD2-0	4.8	3	1.6			Chrysotile	TAS_AHRA
B	36	B33	CD		47	MF	0.8	0.1	8.0			Chrysotile	
B	36	B33	CD		48	MF	0.5	0.1	5.0			Chrysotile	
B	37	B13	CD	48	49	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	38	C3		NSD									
B	39	C23	CD	49		MD1-0	1.6	0.8	2.0			Chrysotile	TAS_AHRA
B	39	C23	CD		50	MF	0.8	0.1	8.0			Chrysotile	
B	39	C23	AQ	50	51	F	7	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	40	C43	AQ	51	52	F	5.2	0.7	7.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	40	C43	AQ	52	53	F	9.5	1.8	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	41	B42	CD	53	54	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	42	B22	AQ	54	55	F	11	3.2	3.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	43	B2	AQ	55	56	F	3.2	0.6	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	44	C12	AQ	56	57	F	7.5	1.2	6.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	45	C32		NSD									
B	46	B31		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	47	B11		NSD									
B	48	C1	AQ	57	58	F	8	0.7	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	49	C21	AQ	58		MD1-1	11.8	3.8	3.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	49	C21	AD		59	MF	11.8	0.38	31			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS >10, PSAS TOT, PSAM >10, PSAM TOT
B	49	C21	AQ	59	60	F	12	2	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	49	C21	CD	60	61	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	50	C41	AQ	61		MD1-1	8.8	8	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	50	C41	AQ		62	MF	6.8	0.7	9.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	50	C41	CD	62	63	B	1.5	0.15	10			Chrysotile	TAS_AHRA
B	51	A41		NSD									
B	52	A21		NSD									
B	53	A1	CD	63	64	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	54	D11	AQ	64	65	F	15.5	3.8	4.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	54	D11	CD	65	66	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	55	D31	AQ	66		MD1-1	23	9	2.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	55	D31	AQ		67	MF	20	2	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	56	C20	AQ	67	68	F	5.8	1.2	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	57	C40		NSD									
B	58	B40	AQ	68	69	F	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	59	B30		NSD									
B	60	B20	AQ	69	70	F	3.5	1	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	B34	AQ	70	71	F	4.7	0.7	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	B34	CD	71	72	F	0.8	0.08	10			Chrysotile	TAS_AHRA
C	62	B14		NSD									
C	63	C4	AQ	72	73	B	5.2	2	2.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	64	B43	AQ	73	74	F	7.5	1.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	65	B33		NSD									
C	66	B23		NSD									
C	67	B13		NSD									
C	68	B42	AQ	74	75	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	B32	CD	75		MD1-0	6.5	5.5	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	69	B32	CD		76	MF	0.8	0.11	7.3			Chrysotile	
C	69	B32	CD	76	77	F	1.2	0.08	15			Chrysotile	TAS_AHRA
C	69	B32	CD	77	78	F	1.8	0.08	22			Chrysotile	TAS_AHRA
C	69	B32	CD	78	79	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	70	B12	AQ	79		MD1-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	70	B12	AQ		80	MF	5.6	1.2	4.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	70	B12	AQ	80	81	F	5	1.1	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	71	C2	AQ	81	82	F	3.8	0.3	13			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	71	C2	CD	82	83	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	72	B41	AQ	83	84	F	8.5	2	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	73	B31	CD	84	85	F	1.22	0.11	11			Chrysotile	TAS_AHRA
C	74	B21		NSD									
C	75	B1		NSD									
C	76	C11	AQ	85	86	F	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	77	A11	CD	86	87	F	2	0.1	20			Chrysotile	TAS_AHRA
C	78	A1		NSD									
C	79	D1	CD	87	88	F	1	0.1	10			Chrysotile	TAS_AHRA
C	80	D21		NSD									
C	81	D41	CD	88	89	F	2.5	0.12	21			Chrysotile	TAS_AHRA
C	81	D41	CD	89		MD1-0	6	6	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	81	D41	CD		90	MF	2	0.1	20			Chrysotile	
C	81	D41	AQ	90	91	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	82	C10	CD	91	92	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	83	C30	CD	92		MD1-0	1.8	0.8	2.2			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	83	C30	CD		93	MF	1.2	0.12	10			Chrysotile	
C	83	C30	CD	93	94	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
C	84	B20	AQ	94	95	F	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	84	B20	CD	95	96	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
C	84	B20	CD	96	97	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	85	B10	AQ	97	98	F	2	0.35	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	85	B10	CD	98	99	F	1.2	0.11	11			Chrysotile	TAS_AHRA
C	86	A10	CD	99	100	F	1	0.1	10			Chrysotile	TAS_AHRA
C	86	A10	CD	100	101	F	2	0.1	20			Chrysotile	TAS_AHRA
C	86	A10	AQ	101	102	F	3.2	0.8	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A44		NSD									
A	2	A24	CD	1	1	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	2	A24	CDQ	2	2	F	0.8	0.12	6.7	1396	1051	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	3	A4	AQ	3	3	F	2.5	0.4	6.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	A4	CD	4	4	F	2	0.1	20			Chrysotile	TAS_AHRA
A	3	A4	CD	5	5	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	3	A4	CD	6	6	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	3	A4	CD	7		MD1-0	2.5	2.5	1.0			Chrysotile	TAS_AHRA
A	3	A4	CD		7	MF	2	0.1	20			Chrysotile	
A	4	D14	AQ	8		MD1-0	5.5	4	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	D14	AQ		8	MF	4.2	0.65	6.5			Mg, Al, Si, Ca, Fe Actinolite	
A	4	D14	CD	9	9	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	4	D14	CD	10	10	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	4	D14	CD	11	11	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	4	D14	CD	12	12	F	1	0.1	10			Chrysotile	TAS_AHRA
A	5	D34	CD	13		MD1-0	8	8	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	D34	CD		13	MF	1.8	0.11	16			Chrysotile	
A	6	A42		NSD									
A	7	A22		NSD									
A	8	A2		NSD									
A	9	D12		NSD									
A	10	D32	CD	14	14	F	2.5	0.1	25			Chrysotile	TAS_AHRA
A	11	D42	CDQ	15	15	B	16	1.2	13			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	12	D40	CDQ	16	16	F	2	0.05	40			Mg, S Chrysotile	TAS_AHRA
A	12	D40	AZQ	17	17	F	2.5	0.3	8.3	1397	1053	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 3] - JH	TAS_AHRA
A	12	D40	AQ	18	18	F	5.1	0.5	10			Na, Mg, Al, Si, K, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	D20	CD	19	19	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	13	D20	CD	20	20	F	1.1	0.05	22			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	D20	CD	21	21	F	3	0.06	50			Chrysotile	TAS_AHRA
A	13	D20	CMQ	22	22	F	1	0.05	20			Chrysotile	TAS_AHRA
A	13	D20	CDQ	23	23	F	1.5	0.05	30			Mg, Si Chrysotile	TAS_AHRA
A	14	D10	CD	24	24	B	12	5	2.4			Mg, Si Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	15	A10	CD	25		MD1-0	1.5	1.5	1.0			Chrysotile	TAS_AHRA
A	15	A10	CD		25	MF	0.7	0.05	14			Chrysotile	
A	16	A30	CDQ	26	26	B	15	0.7	21			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	16	A30	CDQ	27		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
A	16	A30	CDQ		27	MF	1.5	0.06	25			Mg, Si Chrysotile	
A	17	A40		NSD									
A	18	B31	AQ	28	28	F	17.5	3	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	18	B31	CD	29	29	F	1	0.06	17			Chrysotile	TAS_AHRA
A	18	B31	CD	30	30	F	0.6	0.15	4.0			Chrysotile	TAS_AHRA
A	19	C1		NSD									
A	20	C11	CDQ	31	31	F	1.2	0.06	20			Mg, Si Chrysotile	TAS_AHRA
A	21	C21	CD	32	32	F	4	0.05	80			Chrysotile	TAS_AHRA
A	21	C21	CD	33	33	F	0.7	0.06	12			Chrysotile	TAS_AHRA
A	22	C31	CDQ	34	34	F	1.2	0.05	24			Mg, Si Chrysotile	TAS_AHRA
A	22	C31	CD	35	35	F	0.6	0.04	15			Chrysotile	TAS_AHRA
A	23	C41	CD	36	36	F	2.6	0.05	52			Chrysotile	TAS_AHRA
A	23	C41	CD	37	37	F	1.1	0.05	22			Chrysotile	TAS_AHRA
A	24	C43		NSD									
A	25	C23	CD	38	38	F	1.2	0.05	24			Chrysotile	TAS_AHRA
A	25	C23	CD	39	39	F	1	0.05	20			Chrysotile	TAS_AHRA
A	26	C13		NSD									
A	27	B3		NSD									
A	28	B23		NSD									
A	29	B43	CDQ	40	40	B	8	0.3	27			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	B43	CD	41	41	F	1.2	0.06	20			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	30	B4	CD	42	42	F	1	0.06	17			Chrysotile	TAS_AHRA
A	30	B4	CD	43	43	F	1.2	0.05	24			Chrysotile	TAS_AHRA
A	30	B4	CD	44	44	F	1.2	0.05	24			Chrysotile	TAS_AHRA
A	30	B4	CD	45	45	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	31	B24	CD	46		MD1-0	3.5	1	3.5			Chrysotile	TAS_AHRA
B	31	B24	CD		46	MF	0.5	0.08	6.2			Chrysotile	
B	31	B24	CD	47	47	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	32	B4	AQ	48	48	F	4.7	0.8	5.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	32	B4	CD	49		MD1-0	1.5	0.5	3.0			Chrysotile	TAS_AHRA
B	32	B4	CD		49	MF	1	0.1	10			Chrysotile	
B	32	B4	AQ	50		MD1-0	7	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	32	B4	AQ		50	MF	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	
B	32	B4	AQ	51	51	F	6.5	0.8	8.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C14	CD	52	52	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	34	C34		NSD									
B	35	B43	CD	53		MD1-1	8.5	2	4.2			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	B43	CD		53	MF	7	0.1	70			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	36	B23	AQ	54	54	F	1.85	0.6	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	36	B23	CD	55	55	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	37	B3	AQ	56	56	F	5.2	1.2	4.3			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	C13	CD	57		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
B	38	C13	CD		57	MF	0.8	0.1	8.0			Chrysotile	
B	38	C13	CD	58	58	F	1	0.1	10			Chrysotile	TAS_AHRA
B	38	C13	AQ	59	59	F	4.5	0.5	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	39	C33		NSD									
B	40	B42	CD	60	60	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	40	B42	CD	61	61	F	1	0.1	10			Chrysotile	TAS_AHRA
B	41	B22	CD	62		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
B	41	B22	CD		62	MB	1.2	0.22	5.5			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	41	B22	CD	63	63	F	1	0.1	10			Chrysotile	TAS_AHRA
B	41	B22	AQ	64	64	F	4.5	0.45	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	42	B2	AQ	65	65	F	12.5	4	3.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	42	B2	CD	66	66	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	43	C12		NSD									
B	44	C32	AQ	67	67	F	11	0.8	14			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	C32	CD	68	68	F	2.5	0.1	25			Chrysotile	TAS_AHRA
B	44	C32	CD	69	69	B	1.8	0.15	12			Chrysotile	TAS_AHRA
B	45	A41		NSD									
B	46	A31	AQ	70	70	F	2.6	0.38	6.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	47	A1	AQ	71	71	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	47	A1	AQ	72	72	F	6	1.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	D11	AQ	73	73	F	6	0.5	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	D11	CD	74	74	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	48	D11	CD	75		MD1-0	2.5	0.8	3.1			Chrysotile	TAS_AHRA
B	48	D11	CD		75	MF	2	0.1	20			Chrysotile	
B	48	D11	AQ	76		MD1-1	8.5	8	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	D11	AQ		76	MF	5.2	0.4	13			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
B	49	D31	CD	77		MD1-0	2.2	0.8	2.8			Chrysotile	TAS_AHRA
B	49	D31	CD		77	MF	1.2	0.08	15			Chrysotile	
B	49	D31	CD	78	78	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	50	A42	AQ	79	79	F	5.3	1.2	4.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	50	A42	CD	80	80	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	50	A42	AQ	81	81	F	14	3	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	50	A42	CD	82	82	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	51	A32	CD	83	83	B	6.3	0.22	29			Chrysotile	AS>5, AFB>5, PCMES-ISO, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A32	AQ	84	84	F	6.8	1	6.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A32	CD	85		MD1-0	2.5	0.8	3.1			Chrysotile	TAS_AHRA
B	51	A32	CD		85	MF	1	0.1	10			Chrysotile	
B	52	D2	AQ	86		MD1-1	25	10	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	52	D2	AQ		86	MF	7	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	53	D12	AQ	87	87	F	5	0.8	6.2			Actinolite	TAS_AHRA
B	54	D22	AQ	88	88	F	6	1.1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	D32	CD	89		MD1-0	7	7	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	D32	CD		89	MF	1.2	0.11	11			Chrysotile	
B	55	D32	CD	90		MD1-0	2	1.8	1.1			Chrysotile	TAS_AHRA
B	55	D32	CD		90	MF	0.5	0.08	6.2			Chrysotile	
B	56	A33	CD	91	91	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	56	A33	CD	92		MD1-0	1.5	1.5	1.0			Chrysotile	TAS_AHRA
B	56	A33	CD		92	MF	0.8	0.08	10			Chrysotile	
B	57	A13	AQ	93	93	F	8	2.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	58	D3	CD	94	94	B	3	0.25	12			Chrysotile	TAS_AHRA
B	59	D23	CD	95	95	B	1.8	0.15	12			Chrysotile	TAS_AHRA
B	59	D23	CD	96	96	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
B	59	D23	AQ	97	97	F	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	60	D43	CD	98	98	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	61	B34	CD	99	99	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	62	B14		NSD									
B	63	B4	CD	100		MD1-0	5.5	3.5	1.6			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	63	B4	CD		100	MF	2	0.1	20			Chrysotile	
B	63	B4	CD	101	101	F	1.2	0.08	15			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	D44		NSD									
A	2	D33		NSD									
A	3	C30		NSD									
A	4	C21		NSD									
A	5	D20		NSD									
A	6	D22		NSD									
A	7	D24		NSD									
A	8	D13	CDQ	1	1	F	1.75	0.1	18	98	15800	Mg, Si Chrysotile Verified - JH	TAS_AHRA
A	8	D13	CD	2	2	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	9	D11	CDQ	3	3	F	1.15	0.23	5.1			Mg, Si Chrysotile	TAS_AHRA
A	10	C10		NSD									
A	11	C12	CD	4	4	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
A	12	C14		NSD									
A	13	C3		NSD									
A	14	C1		NSD									
A	15	D2	CD	5	5	F	1.35	0.1	14			Chrysotile	TAS_AHRA
A	16	D4		NSD									
A	17	A3		NSD									
A	18	A1		NSD									
A	19	B2		NSD									
A	20	B4		NSD									
A	21	B13		NSD									
A	22	B11	CD	6	6	F	2.75	0.1	28			Chrysotile	TAS_AHRA
A	22	B11	CD	7		MD1-0	1.75	1.7	1.0			Chrysotile	TAS_AHRA
A	22	B11	CD		7	MF	1.2	0.2	6.0			Chrysotile	
A	23	A10		NSD									
A	24	A12		NSD									
A	25	A14	CD	8	8	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	26	A23		NSD									
A	27	A21		NSD									
A	28	B20		NSD									
A	29	B22		NSD									
A	30	B24		NSD									
B	31	C44		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	C42		NSD									
B	33	C40		NSD									
B	34	D41	CD	9		MD1-0	15	8	1.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	34	D41	CD		9	MF	2.8	0.1	28			Chrysotile	
B	35	D43		NSD									
B	36	D34		NSD									
B	37	D32		NSD									
B	38	D30		NSD									
B	39	C31		NSD									
B	40	C33		NSD									
B	41	C24		NSD									
B	42	C22		NSD									
B	43	C20	AZQ	10	10	F	4.7	1.2	3.9	104	15805	Mg, Si, Ca, Fe Actinolite Zone Axis [7 1 2] - JH	TAS_AHRA
B	44	D21		NSD									
B	45	D23		NSD									
B	46	D14		NSD									
B	47	D12		NSD									
B	48	C11	AQ	11	11	F	2.7	0.25	11			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	49	C13		NSD									
B	50	C4		NSD									
B	51	C2		NSD									
B	52	D1		NSD									
B	53	D3		NSD									
B	54	A4	CD	12	12	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	55	A2		NSD									
B	56	B1	CD	13		MD1-0	2.8	2.4	1.2			Chrysotile	TAS_AHRA
B	56	B1	CD		13	MF	1.3	0.1	13			Chrysotile	
B	57	B3		NSD									
B	58	B14		NSD									
B	59	B12		NSD									
B	60	B10		NSD									
C	61	B34	CD	14		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
C	61	B34	CD		14	MF	1.2	0.15	8.0			Chrysotile	

Lab/Cor, Inc.

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Report # 041188R15

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	62	B24		NSD									
C	63	B43		NSD									
C	64	B33	CD	15	15	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA
C	64	B33	CD	16	16	F	0.6	0.05	12			Chrysotile	TAS_AHRA
C	65	B22	CD	17		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
C	65	B22	CD		17	MF	0.6	0.1	6.0			Chrysotile	
C	66	B32		NSD									
C	67	B42		NSD									
C	68	B11		NSD									
C	69	B21	AQ	18	18	F	1.5	0.35	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	70	B31		NSD									
C	71	B41		NSD									
C	72	B10	AQ	19		MD1-0	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	B10	AQ		19	MF	2.5	0.3	8.3			Mg, Al, Si, Ca, Fe Actinolite	
C	72	B10	AQ	20		MD1-0	6.5	4	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	B10	AQ		20	MF	4	0.25	16			Mg, Al, Si, Ca, Fe Actinolite	
C	72	B10	CD	21		MD1-0	2	0.8	2.5			Chrysotile	TAS_AHRA
C	72	B10	CD		21	MF	1.8	0.1	18			Chrysotile	
C	73	B20		NSD									
C	74	B30		NSD									
C	75	B40		NSD									
C	76	A40		NSD									
C	77	A30		NSD									
C	78	A20		NSD									
C	79	A10		NSD									
C	80	A31		NSD									
C	81	A41	CD	22	22	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	81	A41	CD	23		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
C	81	A41	CD		23	MF	1.2	0.1	12			Chrysotile	
C	82	A32	AQ	24	24	F	12	2.5	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	83	A42		NSD									
C	84	A33		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	85	A43		NSD									
D	86	B14	CD	25	25	F	1.1	0.1	11			Chrysotile	TAS_AHRA
D	87	C4	AQ	26		MD1-1	6.5	2.5	2.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	87	C4	AQ		26	MF	6.5	0.4	16			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
D	88	C24	CD	27		MD1-0	6	6	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	88	C24	CD		27	MF	2.5	0.1	25			Chrysotile	
D	88	C24	CD	28	28	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
D	89	C44	CD	29		MD1-0	2	0.5	4.0			Chrysotile	TAS_AHRA
D	89	C44	CD		29	MF	1.1	0.1	11			Chrysotile	
D	90	C43	CD	30	30	F	1.5	0.1	15			Chrysotile	TAS_AHRA
D	90	C43	CD	31	31	F	0.9	0.08	11			Chrysotile	TAS_AHRA
D	91	C33	CD	32		MD1-0	3.8	1	3.8			Chrysotile	TAS_AHRA
D	91	C33	CD		32	MF	3	0.12	25			Chrysotile	
D	91	C33	AQ	33		MD1-0	7.5	2.5	3.0			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	91	C33	AQ		33	MF	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	
D	92	C13	CD	34		MD1-0	6	2	3.0			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	92	C13	CD		34	MF	4.5	0.1	45			Chrysotile	
D	93	B3		NSD									
D	94	B23		NSD									
D	95	B32		NSD									
D	96	B12	AQ	35	35	F	4.8	1.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	97	C2	CD	36		MD1-0	3.8	3	1.3			Chrysotile	TAS_AHRA
D	97	C2	CD		36	MF	0.8	0.1	8.0			Chrysotile	
D	97	C2	CD	37		MD1-0	3.5	1.5	2.3			Chrysotile	TAS_AHRA
D	97	C2	CD		37	MF	2	0.11	18			Chrysotile	
D	98	C22	CD	38	38	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
D	99	C42		NSD									

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A Professional Service Corporation in the Northwest

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	100	C41	CD	39	39	F	6.2	0.11	56			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	100	C41	CD	40	40	F	3	0.1	30			Chrysotile	TAS_AHRA
D	101	C31		NSD									
D	102	C11		NSD									
D	103	B1	CD	41	41	F	0.8	0.08	10			Chrysotile	TAS_AHRA
D	103	B1	CD	42	42	F	1.2	0.1	12			Chrysotile	TAS_AHRA
D	104	B21		NSD									
D	105	B41		NSD									
D	106	B40		NSD									
D	107	B30	AQ	43		MD1-0	7	7	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	107	B30	AQ		43	MF	1.8	0.25	7.2			Mg, Al, Si, Ca, Fe Actinolite	
D	108	B10		NSD									
D	109	C10		NSD									
D	110	C30	CD	44	44	B	1.5	0.2	7.5			Chrysotile	TAS_AHRA
D	110	C30	CD	45	45	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
D	111	D40		NSD									
D	112	D20	AQ	46	46	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	113	D10	AQ	47	47	F	1.7	0.25	6.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	113	D10	CD	48		MD1-0	3.8	1.5	2.5			Chrysotile	TAS_AHRA
D	113	D10	CD		48	MF	1.8	0.12	15			Chrysotile	
D	114	A20		NSD									
D	115	A40	AQ	49	49	F	1.5	0.25	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	116	A41		NSD									
D	117	A31	AQ	50	50	F	1.5	0.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	118	A11	CD	51	51	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
D	119	B2	CD	52	52	F	1.2	0.08	15			Chrysotile	TAS_AHRA
D	120	B12		NSD									
E	121	B34		NSD									
E	122	B14		NSD									
E	123	C4	CD	53		MD1-0	1.8	0.5	3.6			Chrysotile	TAS_AHRA
E	123	C4	CD		53	MF	0.8	0.1	8.0			Chrysotile	
E	124	C24		NSD									

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	125	C44		NSD									
E	126	C33	CD	54	54	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	127	C13	AQ	55	55	F	6.5	2	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	128	B3		NSD									
E	129	B23	CD	56		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
E	129	B23	CD		56	MB	4	0.5	8.0			Chrysotile	
E	129	B23	CD	57		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
E	129	B23	CD		57	MF	4	0.1	40			Chrysotile	
E	130	B43		NSD									
E	131	B32		NSD									
E	132	B12	CD	58	58	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	132	B12	AQ	59		MD1-1	15	12	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	132	B12	AQ		59	MF	6.5	0.45	14			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
E	133	B2		NSD									
E	134	C2		NSD									
E	135	C22		NSD									
E	136	C21	CD	60	60	F	0.8	0.08	10			Chrysotile	TAS_AHRA
E	136	C21	CD	61		MD1-0	3	0.8	3.8			Chrysotile	TAS_AHRA
E	136	C21	CD		61	MF	1.5	0.08	19			Chrysotile	
E	137	C1		NSD									
E	138	B11	AQ	62	62	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	139	B21	CD	63	63	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
E	140	B31	CD	64	64	F	1.1	0.1	11			Chrysotile	TAS_AHRA
E	141	B40		NSD									
E	142	B20		NSD									
E	143	B10	CD	65	65	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
E	143	B10	CD	66	66	F	1.8	0.1	18			Chrysotile	TAS_AHRA
E	144	C10	CD	67		MD1-0	3	2	1.5			Chrysotile	TAS_AHRA
E	144	C10	CD		67	MF	0.8	0.1	8.0			Chrysotile	
E	145	D10		NSD									
E	146	A10		NSD									

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Report # 041188R15

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	147	A30		NSD									
E	148	A40	CD	68	68	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	149	A41	CD	69	69	F	1.1	0.1	11			Chrysotile	TAS_AHRA
E	149	A41	CD	70	70	F	1.5	0.1	15			Chrysotile	TAS_AHRA
E	149	A41	CD	71	71	F	2.5	0.1	25			Chrysotile	TAS_AHRA
E	150	A21		NSD									
E	151	A11	AQ	72	72	F	10	1	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	152	D1	CD	73	73	F	0.8	0.08	10			Chrysotile	TAS_AHRA
E	153	D11		NSD									
E	154	D2		NSD									
E	155	A2		NSD									
E	156	A22	CD	74	74	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	157	A32		NSD									
E	158	A42	AQ	75	75	F	9	2.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	158	A42	CD	76	76	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	159	A43	CD	77		MD1-0	1	0.5	2.0			Chrysotile	TAS_AHRA
E	159	A43	CD		77	MF	0.6	0.11	5.5			Chrysotile	
E	159	A43	CD	78	78	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
E	160	A33		NSD									
E	161	A13	CD	79	79	F	1.2	0.1	12			Chrysotile	TAS_AHRA
E	162	A3		NSD									
E	163	D3		NSD									
E	164	A14	CD	80	80	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	164	A14	CD	81	81	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	165	A24	AQ	82		MD1-0	9	6	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	165	A24	AQ		82	MF	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	
E	166	A34	CD	83	83	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
E	167	A44		NSD									
E	168	D13		NSD									
E	169	D33		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	AQ	1	1	F	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	B24		NSD									
A	3	B4		NSD									
A	4	C14		NSD									
A	5	C34	CD	2	2	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	5	C34	CDQ	3	3	F	1	0.1	10	1408	1062	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	5	C34	AZQ	4	4	F	26	0.7	37	1409	1063	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 1] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	C43	CD	5	5	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	6	C43	CD	6	6	F	2	0.1	20			Chrysotile	TAS_AHRA
A	6	C43	CD	7	7	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
A	7	C23		NSD									
A	8	C3	CD	8	8	F	1.1	0.1	11			Chrysotile	TAS_AHRA
A	9	B13		NSD									
A	10	B33	CD	9	9	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	11	B42	CD	10	10	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	12	B22	AQ	11	11	F	2	0.35	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	13	B2	CD	12	12	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	14	C12		NSD									
A	15	C32		NSD									
A	16	C41	CD	13	13	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	17	C21		NSD									
A	18	C1	CD	14	14	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	19	B11	CD	15	15	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	20	B31	CD	16	16	B	1.2	0.15	8.0			Chrysotile	TAS_AHRA
A	21	B40	CD	17	17	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	22	B20	CD	18	18	F	1.5	0.03	50			Chrysotile	TAS_AHRA
A	22	B20	CD	19	19	F	1.8	0.12	15			Chrysotile	TAS_AHRA
A	23	B10		NSD									
A	24	C10	CD	20	20	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	24	C10	CD	21	21	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	25	C30	CD	22	22	F	1.5	0.08	19			Chrysotile	TAS_AHRA
A	25	C30	CD	23	23	F	1.5	0.2	7.5			Chrysotile	TAS_AHRA

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Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	25	C30	CD	24		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
A	25	C30	CD		24	MB	2	0.2	10			Chrysotile	
A	26	C40		NSD									
A	27	D40	CD	25	25	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	27	D40	CD	26		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
A	27	D40	CD		26	MF	0.8	0.1	8.0			Chrysotile	
A	28	D30	CD	27	27	F	0.5	0.05	10			Chrysotile	TAS_AHRA
A	29	D10	CD	28	28	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	29	D10	CD	29	29	F	1	0.1	10			Chrysotile	TAS_AHRA
A	29	D10	AQ	30	30	F	9.5	1	9.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	D10	CD	31	31	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	30	A10	AQ	32		MD1-1	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	30	A10	AQ		32	MF	8.5	1	8.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	31	B24	CD	33		MD1-0	1.2	0.3	4.0			Chrysotile	TAS_AHRA
B	31	B24	CD		33	MF	0.8	0.08	10			Chrysotile	
B	32	B4	CD	34	34	F	2	0.1	20			Chrysotile	TAS_AHRA
B	33	C14	CD	35		MD1-0	4	2	2.0			Chrysotile	TAS_AHRA
B	33	C14	CD		35	MF	2.5	0.12	21			Chrysotile	
B	33	C14	CD	36		MD1-0	8	5	1.6			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C14	CD		36	MF	3	0.11	27			Chrysotile	
B	34	C34		NSD									
B	35	C43		NSD									
B	36	C23	CD	37	37	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	37	B3		NSD									
B	38	B13	AQ	38	38	F	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	B13	CD	39	39	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	39	B33		NSD									
B	40	B42		NSD									
B	41	B22		NSD									
B	42	B2		NSD									

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	43	C12		NSD									
B	44	C32	AQ	40	40	F	4.5	0.8	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	44	C32	CD	41		MD1-0	1.2	0.5	2.4			Chrysotile	TAS_AHRA
B	44	C32	CD		41	MF	0.5	0.08	6.2			Chrysotile	
B	45	C41		NSD									
B	46	C21		NSD									
B	47	C1	AQ	42		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	47	C1	AQ		42	MF	9	1	9.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	47	C1	CD	43	43	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	48	B11	CD	44		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
B	48	B11	CD		44	MF	0.8	0.08	10			Chrysotile	
B	49	B31	CD	45		MD1-0	15	8	1.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	49	B31	CD		45	MF	1.2	0.11	11			Chrysotile	
B	49	B31	CD	46	46	B	2.5	0.5	5.0			Chrysotile	TAS_AHRA
B	50	A41	CD	47	47	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	50	A41	CD	48	48	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	51	A21		NSD									
B	52	A1	CD	49	49	F	2	0.08	25			Chrysotile	TAS_AHRA
B	52	A1	CD	50		MD1-0	1.5	0.25	6.0			Chrysotile	TAS_AHRA
B	52	A1	CD		50	MF	1.2	0.1	12			Chrysotile	
B	53	D11		NSD									
C	54	A44	CD	51	51	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	54	A44	CD	52	52	F	5.1	0.1	51			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	54	A44	CD	53	53	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	55	A34	CD	54	54	F	2	0.11	18			Chrysotile	TAS_AHRA
C	56	A24		NSD									
C	57	A14	CD	55	55	B	18	0.5	36			Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS >10, PSAS TOT, PCAS >10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	58	A4	CD	56	56	F	1.2	0.11	11			Chrysotile	TAS_AHRA
C	58	A4	CD	57	57	F	0.6	0.05	12			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	59	D4	CD	58		MD1-0	2	1.2	1.7			Chrysotile	TAS_AHRA
C	59	D4	CD		58	MF	1.2	0.11	11			Chrysotile	
C	60	D34	AQ	59	59	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	D44	CD	60	60	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	62	D43	CD	61	61	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA
C	62	D43	CD	62	62	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	62	D43	CD	63	63	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
C	62	D43	CD	64	64	F	1.2	0.12	10			Chrysotile	TAS_AHRA
C	63	D33		NSD									
C	64	D13		NSD									
C	65	D3	CD	65	65	B	2.8	0.35	8.0			Chrysotile	TAS_AHRA
C	66	A3	CD	66	66	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	67	A13	AQ	67		MD1-1	9	4	2.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	67	A13	AQ		67	MF	8.2	1.5	5.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	68	A23	CD	68	68	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	69	A43		NSD									
C	70	A32	CD	69	69	F	1	0.1	10			Chrysotile	TAS_AHRA
C	70	A32	CD	70	70	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	70	A32	CD	71	71	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	71	A12		NSD									
C	72	D2	CD	72		MD1-0	7	4	1.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	D2	CD		72	MF	1.2	0.1	12			Chrysotile	
C	73	D44	CD	73	73	F	1.8	0.1	18			Chrysotile	TAS_AHRA
C	73	D44	CD	74	74	F	1.2	0.12	10			Chrysotile	TAS_AHRA
C	74	A41		NSD									
C	75	A31	CD	75	75	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
C	75	A31	AQ	76		MD1-1	11	6	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	75	A31	AQ		76	MF	6.8	1.2	5.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	76	A21	CD	77	77	F	1.8	0.1	18			Chrysotile	TAS_AHRA
C	77	A11	CD	78	78	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	78	A1		NSD									
C	79	A30		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	80	A20		NSD									
C	81	A10		NSD									
C	82	B40		NSD									
C	83	B30	CD	79		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
C	83	B30	CD		79	MF	0.8	0.1	8.0			Chrysotile	
C	84	B20		NSD									
C	85	B31	CD	80	80	F	1	0.1	10			Chrysotile	TAS_AHRA
C	86	B21	AQ	81	81	F	3.8	1	3.8			Actinolite	TAS_AHRA
C	86	B21	CD	82	82	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
C	87	B11	AQ	83	83	F	1.8	0.25	7.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	B1	CD	84	84	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
C	89	C11	AQ	85	85	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	CD	1		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
A	1	B44	CD		1	MF	0.7	0.1	7.0			Chrysotile	
A	1	B44	CD	2	2	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	1	B44	AQ	3		MD1-1	6.5	6	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	B44	AQ		3	MF	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	1	B44	AQ	4	4	F	7.5	1	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	2	B24		NSD									
A	3	B4	CD	5		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
A	3	B4	CD		5	MF	1.2	0.1	12			Chrysotile	
A	4	C14	AQ	6	6	F	5.2	1.5	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	C34	AQ	7	7	F	17	1.1	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	C43	AQ	8		MD1-0	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	C43	AQ		8	MF	3.8	0.5	7.6			Mg, Al, Si, Ca, Fe Actinolite	
A	7	C23		NSD									
A	8	C3		NSD									
A	9	B13		NSD									
A	10	B33		NSD									
A	11	B42	CD	9	9	F	1.1	0.12	9.2			Chrysotile	TAS_AHRA
A	11	B42	CD	10	10	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	11	B42	AQ	11	11	F	12	1.8	6.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	12	B22	AZQ	12		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
A	12	B22	AZQ		12	MF	1.8	0.25	7.2	1440	1091	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [1 3 4] - KM	
A	13	B2	AQ	13	13	F	5.2	1.5	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	14	C12		NSD									
A	15	C32		NSD									
A	16	C31		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	17	C11	AQ	14		MD1-1	7	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	C11	AQ		14	MF	5.5	0.8	6.9			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	18	B1	AQ	15	15	F	6.5	0.8	8.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	B21		NSD									
A	20	B41	CD	16		MD1-0	12	4	3.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	20	B41	CD		16	MB	3.8	0.2	19			Chrysotile	
A	21	B40		NSD									
A	22	B20	AQ	17	17	F	2.2	0.45	4.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	23	B10	AQ	18		MD1-0	6	5	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	23	B10	AQ		18	MF	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	
A	24	C20		NSD									
A	25	D40	CD	19		MD1-0	1.2	1	1.2			Chrysotile	TAS_AHRA
A	25	D40	CD		19	MF	0.6	0.1	6.0			Chrysotile	
A	26	D30		NSD									
A	27	D20		NSD									
A	28	A20	AQ	20	20	F	6.5	0.9	7.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	A40		NSD									
A	30	A41		NSD									
A	31	A11	AQ	21		MD1-0	5.5	2	2.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	31	A11	AQ		21	MF	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	
B	32	B44		NSD									
B	33	B24	CD	22	22	F	3.2	0.1	32			Chrysotile	TAS_AHRA
B	33	B24	AZQ	23		MD1-0	6	4	1.5			Amosite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	B24	AZQ		23	MF	3.5	0.45	7.8	1456	1107	Na, Mg, Al, Si, Fe Amosite Zone Axis [9 1 4] - KM	
B	34	B4	AQ	24	24	F	6	0.7	8.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	C14	AQ	25	25	F	3.8	0.2	19			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	36	C34	CD	26	26	B	12	0.8	15			Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	C34	CD	27	27	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	37	C33		NSD									
B	38	C23	CD	28	28	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	38	C23	CD	29		MD1-1	6	1.5	4.0			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	C23	CD		29	MB	6	0.1	60			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	38	C23	CD	30		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	C23	CD		30	MF	1.2	0.1	12			Chrysotile	
B	39	C3	AQ	31		MD1-0	5	3	1.7			Actinolite	TAS_AHRA
B	39	C3	AQ		31	MF	4.8	1.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	
B	40	B13	AQ	32		MD1-0	4	3	1.3			Actinolite	TAS_AHRA
B	40	B13	AQ		32	MF	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	
B	41	B33	CD	33	33	F	1	0.1	10			Chrysotile	TAS_AHRA
B	42	B42		NSD									
B	43	B22		NSD									
B	44	B2		NSD									
B	45	C12		NSD									
B	46	C32	CD	34	34	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	46	C32	AQ	35	35	F	4.5	0.6	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	47	C41	CD	36	36	F	2.8	0.1	28			Chrysotile	TAS_AHRA
B	48	C21	AQ	37	37	F	3	0.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	49	C1		NSD									
B	50	B11	AQ	38	38	F	7	1.5	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	B31	AQ	39		MD1-1	18	8	2.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	51	B31	AQ		39	MF	8.2	1.2	6.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	52	B30		NSD									
B	53	B10		NSD									
B	54	A41	CD	40		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
B	54	A41	CD		40	MF	0.8	0.1	8.0			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	54	A41	CD	41	41	B	1.8	0.2	9.0			Chrysotile	TAS_AHRA
B	55	A31		NSD									
B	56	A21	CD	42		MD1-0	5.5	1.2	4.6			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	56	A21	CD		42	MF	4.8	0.1	48			Chrysotile	
B	57	A40	AQ	43		MD1-0	5.2	2.5	2.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	57	A40	AQ		43	MF	1.5	0.35	4.3			Mg, Al, Si, Ca, Fe Actinolite	
B	58	A30		NSD									
B	59	A10		NSD									
B	60	C10	AQ	44		MD1-1	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	60	C10	AQ		44	MF	5.2	0.5	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
C	61	B44		NSD									
C	62	B24	AQ	45		MD1-0	7	1.2	5.8			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	62	B24	AQ		45	MF	4	0.56	7.1			Mg, Al, Si, Ca, Fe Actinolite	
C	63	B4	AQ	46	46	F	4	0.4	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	64	C14	CD	47		MD1-0	5	1.2	4.2			Chrysotile	TAS_AHRA
C	64	C14	CD		47	MB	3.3	0.2	16			Chrysotile	
C	65	C34	AQ	48		MD1-1	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	65	C34	AQ		48	MF	5.2	0.6	8.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	65	C34	AQ	49	49	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	65	C34	AQ	50	50	F	8.5	0.8	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	66	C43		NSD									
C	67	C23	AQ	51	51	F	2.7	0.4	6.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	68	C3	AQ	52		MD1-0	15	12	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	68	C3	AQ		52	MF	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	
C	68	C3	AQ	53		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	68	C3	AQ		53	MF	6.8	1.1	6.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	68	C3	CD	54		MD1-0	4	3.8	1.1			Chrysotile	TAS_AHRA
C	68	C3	CD		54	MF	1.2	0.1	12			Chrysotile	
C	68	C3	AQ	55	55	F	3.8	0.4	9.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	B13		NSD									
C	70	B33	AQ	56	56	F	7.5	1.8	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	70	B33	AQ	57		MD1-0	4	3	1.3			Actinolite	TAS_AHRA
C	70	B33	AQ		57	MF	3.8	0.8	4.8			Mg, Al, Si, Ca, Fe Actinolite	
C	71	B32	CD	58		MD1-0	3	1.2	2.5			Chrysotile	TAS_AHRA
C	71	B32	CD		58	MF	1.2	0.1	12			Chrysotile	
C	71	B32	AQ	59		MD1-1	8	6	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	71	B32	AQ		59	MF	7	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	72	B12	AQ	60	60	F	3	0.3	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	73	C2	AQ	61	61	F	12.5	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	73	C2	AQ	62	62	F	4.8	1.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	73	C2	AQ	63	63	F	3.2	0.7	4.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	74	C22	AQ	64	64	F	14	3	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	75	C42		NSD									
C	76	C31		NSD									
C	77	C11	AQ	65	65	F	11.6	2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	78	B1	CD	66		MD1-1	8	2.8	2.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	78	B1	CD		66	MF	8.5	0.1	85			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
C	79	B21	CD	67	67	F	1.2	0.11	11			Chrysotile	TAS_AHRA
C	80	B41		NSD									
C	81	B40		NSD									
C	82	B20	AQ	68		MD1-1	7	2.2	3.2			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	82	B20	AQ		68	MF	5.5	0.7	7.9			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	83	B10		NSD									
C	84	C10	AQ	69		MD1-0	4.5	2.85	1.6			Actinolite	TAS_AHRA
C	84	C10	AQ		69	MF	3.2	0.7	4.6			Mg, Al, Si, Ca, Fe Actinolite	
C	84	C10	AQ	70	70	F	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	85	C30	AQ	71	71	F	1.5	0.5	3.0			Mg, Si, Fe Amosite	TAS_AHRA
C	86	A31	AQ	72	72	F	7	1.5	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	87	A11	AQ	73	73	F	4.5	0.7	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	D1	AQ	74	74	F	7.5	0.5	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	88	D1	AQ	75		MD1-1	6.8	2	3.4			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	88	D1	AQ		75	MF	6.5	0.8	8.1			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	89	D11		NSD									
C	90	D21		NSD									
D	91	B44	AQ	76	76	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	92	B24		NSD									
D	93	B4	CDQ	77		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
D	93	B4	CDQ		77	MF	1.1	0.1	11	1459	1108	Mg, Si Chrysotile Verified - KM	
D	94	C14	AQ	78		MD1-1	10	4	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	94	C14	AQ		78	MF	6.5	1.8	3.6			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	95	C34		NSD									
D	96	C43		NSD									
D	97	C23		NSD									
D	98	C3	AQ	79	79	F	1.5	0.35	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	99	B13		NSD									
D	100	B33	AQ	80		MD1-1	7	2	3.5			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	100	B33	AQ		80	MF	5.2	1.2	4.3			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	101	B22		NSD									

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	102	B2	AQ	81		MD1-0	10	6	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	102	B2	AQ		81	MF	4.2	0.5	8.4			Mg, Al, Si, Ca, Fe Actinolite	
D	103	C12		NSD									
D	104	C42		NSD									
D	105	C41	CMQ	82		MD1-0	3.5	1.2	2.9			Chrysotile	TAS_AHRA
D	105	C41	CMQ		82	MF	1.2	0.1	12			Mg, Si Chrysotile	
D	106	C21	AQ	83		MD1-0	4	4	1.0			Actinolite	TAS_AHRA
D	106	C21	AQ		83	MF	2.7	0.6	4.5			Mg, Al, Si, Ca, Fe Actinolite	
D	107	C1		NSD									
D	108	B11	AQ	84	84	F	6	0.65	9.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	108	B11	AQ	85		MD1-1	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	108	B11	AQ		85	MF	5	0.6	8.3			Mg, Al, Si, Ca, Fe Actinolite	
D	109	B31	AQ	86		MD1-1	6	3.5	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	109	B31	AQ		86	MF	5.8	0.55	11			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	109	B31	CD	87	87	F	2	0.1	20			Chrysotile	TAS_AHRA
D	110	B40		NSD									
D	111	B20		NSD									
D	112	B10	CD	88	88	F	1.2	0.1	12			Chrysotile	TAS_AHRA
D	113	C20	AQ	89	89	F	14	2.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	113	`C20	CD	90	90	F	1.5	0.1	15			Chrysotile	TAS_AHRA
D	114	C40	AQ	91	91	F	3.5	0.7	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	114	C40	AQ	92	92	F	4	0.85	4.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	115	D41	AQ	93	93	F	8	1.2	6.7			Mg, Al, Si, Ca, Feq Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	115	D41	AQ	94	94	F	7	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	116	D21		NSD									
D	117	D11		NSD									
D	118	A11	AQ	95	95	F	2.2	0.4	5.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	119	A31		NSD									
D	120	A42	AQ	96		MD1-0	5.5	1	5.5			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	120	A42	AQ		96	MF	4.2	0.3	14			Mg, Al, Si, Ca, Fe Actinolite	
D	121	A22		NSD									
D	122	A2	AQ	97		MD1-0	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	122	A2	AQ		97	MF	4.5	0.7	6.4			Mg, Al, Si, Ca, Fe Actinolite	
D	123	D12		NSD									
D	124	D32		NSD									
D	125	D42	AQ	98		MD1-1	7	4	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	125	D42	AQ		98	MF	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	125	D42	AQ	99	99	F	8	2	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	126	D2	CD	100	100	F	1	0.1	10			Chrysotile	TAS_AHRA
D	126	D2	AQ	101	101	F	12	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	126	D2	AQ	102	102	F	4.2	1.2	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	126	D2	AQ	103	103	F	4.2	0.8	5.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	C44		NSD									
A	2	C42		NSD									
A	3	C40	AQ	1		MD1-0	14.5	8	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	3	C40	AQ		1	MF	3.6	0.25	14			Mg, Al, Si, K, Ca, Fe Actinolite	
A	4	D41	AQ	2	2	F	5.2	0.8	6.5			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	D43		NSD									
A	6	D34		NSD									
A	7	D32	CDQ	3	3	B	3	0.2	15	127	15827	Mg, Si, Fe Chrysotile Verified - JH	TAS_AHRA
A	8	D30	AZQ	4		MD1-0	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	8	D30	AZQ		4	MF	3.9	0.8	4.9	128	15828	Mg, Si, Ca, Fe Actinolite Zone Axis [3 1 3] - KM	
A	9	C31		NSD									
A	10	C33		NSD									
A	11	C24	AQ	5	5	F	2.5	0.3	8.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	11	C24	AQ	6	6	F	1.55	0.25	6.2			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	12	C22		NSD									
A	13	C20		NSD									
A	14	D21		NSD									
A	15	D14		NSD									
A	16	D12		NSD									
A	17	D10		NSD									
A	18	C11		NSD									
A	19	C13	AQ	7	7	F	2.8	0.8	3.5			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	20	C4	AQ	8		MD1-0	3	2	1.5			Actinolite	TAS_AHRA
A	20	C4	AQ		8	MF	2.9	0.5	5.8			Mg, Si, Ca, Fe Actinolite	
A	21	C2	AQ	9	9	F	1.75	0.25	7.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	21	C2	AQ	10	10	F	4.95	1.5	3.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	22	D1		NSD									
A	23	D3	CD	11	11	F	1.85	0.1	18			Chrysotile	TAS_AHRA
A	24	A2		NSD									
A	25	B1		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	26	B3		NSD									
A	27	B14		NSD									
A	28	B12	AQ	12		MD1-0	16.5	4.5	3.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	28	B12	AQ		12	MF	1.7	0.3	5.7			Mg, Si, Ca, Fe Actinolite	
A	29	B10	CD	13	13	F	0.95	0.1	9.5			Chrysotile	TAS_AHRA
A	30	A11		NSD									
B	31	C44	CD	14	14	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	32	C42		NSD									
B	33	C40		NSD									
B	34	D41	CD	15	15	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	35	D43	CD	16	16	F	0.95	0.1	9.5			Chrysotile	TAS_AHRA
B	36	D34		NSD									
B	37	D32		NSD									
B	38	D30	CD	17	17	F	1.1	0.15	7.3			Chrysotile	TAS_AHRA
B	39	C31		NSD									
B	40	C33	CD	18	18	F	1.6	0.2	8.0			Chrysotile	TAS_AHRA
B	41	C24	CD	19		MD1-0	10.5	7	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	41	C24	CD		19	MF	0.9	0.1	9.0			Chrysotile	
B	42	C22		NSD									
B	43	C20	CD	20	20	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	44	D21		NSD									
B	45	D23	CD	21	21	F	1.1	0.1	11			Chrysotile	TAS_AHRA
B	46	D14		NSD									
B	47	D12		NSD									
B	48	D10		NSD									
B	49	C11		NSD									
B	50	C13		NSD									
B	51	C4	CD	22	22	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	52	C2		NSD									
B	53	D1		NSD									
B	54	D3		NSD									
B	55	A2		NSD									
B	56	B1		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	57	B3	CD	23	23	F	1.1	0.1	11			Chrysotile	TAS_AHRA
B	57	B3	AZQ	24	24	F	1.7	0.25	6.8	141	15831	Mg, Si, Ca, Fe Tremolite Zone Axis [1 0 1] - KM	TAS_AHRA
B	57	B3	CD	25	25	F	2.05	0.1	20			Chrysotile	TAS_AHRA
C	58	B44	CD	26	26	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	59	B24		NSD									
C	60	B4	AQ	27	27	F	7.2	0.7	10			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	60	B4	AQ	28		MD1-1	12	3.5	3.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	60	B4	AQ		28	MF	12	1.2	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	61	C4		NSD									
C	61	C4	AQ	29	29	F	5.7	1.25	4.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	61	C44	AQ	30	30	F	1.25	0.25	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	62	C44	CD	31	31	F	1.75	0.1	18			Chrysotile	TAS_AHRA
C	63	C13	CD	32	32	F	0.85	0.1	8.5			Chrysotile	TAS_AHRA
C	63	C13	CD	33	33	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	64	B3	AQ	34	34	F	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	64	B3	OZQ	35	35	F	11.3	3.3	3.4	1482	15862	Mg, Al, Si, K, Ca, Fe Ferro-edenite Potassic, Zone Axis [1 1 1] - JH	TOS_AHRA, OS>5_AHRA, OS>10_AHRA
C	64	B3	CD	36	36	F	2.1	0.18	12			Chrysotile	TAS_AHRA
C	65	B23	AQ	37	37	F	3	0.5	6.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	65	B23	AQ	38	38	F	1.25	0.2	6.2			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	65	B23	AQ	39	39	F	10.1	0.45	22			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS >10, PSAS TOT, PSAM >10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	66	C12	AZQ	40		MD1-0	2.8	1.2	2.3			Winchite	TAS_AHRA
C	66	C12	AZQ		40	MF	1.75	0.25	7.0	178	15875	Na, Mg, Si, Fe Winchite Ferri, Zone Axis [4 -1 -1] - TM	
C	66	C12	CD	41	41	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	67	C2	CD	42	42	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	68	C22	AQ	43	43	F	5	1.2	4.2			Mg, Al, Si, Ca, Fe Actinolite Ferrianactinolite	TAS_AHRA
C	69	C42	CD	44		MD1-0	3	1.7	1.8			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

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Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	69	C42	CD		44	MF	0.95	0.2	4.8			Chrysotile	
C	70	C31	CD	45	45	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	71	C11		NSD									
C	72	B1		NSD									
C	73	B21	AQ	46		MD1-0	25.5	18	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	73	B21	AQ		46	MF	3.75	1.1	3.4			Mg, Si, Ca, Fe Actinolite	
C	74	B10	CD	47	47	F	0.95	0.1	9.5			Chrysotile	TAS_AHRA
C	75	C20		NSD									
C	76	C40	CD	48	48	F	1.05	0.15	7.0			Chrysotile	TAS_AHRA
C	76	C40	CD	49	49	F	1.1	0.15	7.3			Chrysotile	TAS_AHRA
C	76	C40	CD	50		MD1-0	1.8	1.6	1.1			Chrysotile	TAS_AHRA
C	76	C40	CD		50	MF	1.1	0.1	11			Chrysotile	
C	76	C40	CD	51		MD1-0	1.2	0.75	1.6			Chrysotile	TAS_AHRA
C	76	C40	CD		51	MF	0.7	0.1	7.0			Chrysotile	
C	77	D30		NSD									
C	78	D10	CD	52	52	F	1.45	0.2	7.2			Chrysotile	TAS_AHRA
C	78	D10	AQ	53	53	F	1.5	0.25	6.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	79	D2	AQ	54		MD1-1	17.5	11	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	79	D2	AQ		54	MF	5.5	0.7	7.9			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	79	D2	CD	55		MD1-0	2.75	0.95	2.9			Chrysotile	TAS_AHRA
C	79	D2	CD		55	MF	1.85	0.1	18			Chrysotile	
C	80	A42	CD	56		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
C	80	A42	CD		56	MF	2	0.1	20			Chrysotile	
C	81	A22	AQ	57	57	F	10	2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	82	A2	CD	58	58	B	4	0.15	27			Mg, Al, Si, Ca, Fe Chrysotile	TAS_AHRA
C	82	A2	AQ	59	59	F	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	82	A2	CD	60	60	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
C	83	D12	AQ	61	61	F	8.5	1.8	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	83	D12	AQ	62		MD1-0	5.5	4	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	83	D12	AQ		62	MF	3.5	0.3	12			Mg, Al, Si, Ca, Fe Actinolite	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	83	D12	CD	63	63	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
C	84	D32	AQ	64	64	F	3.2	0.6	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	85	D41	AQ	65	65	F	5.2	1.7	3.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	86	D21	AQ	66	66	F	5.7	0.5	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	87	D1	AQ	67	67	F	3.8	0.68	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	A11		NSD									
C	89	A31	AQ	68	68	F	3	1	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	90	A23		NSD									
D	91	B24		NSD									
D	92	B4		NSD									
D	93	C14	AQ	69	69	F	1.2	0.35	3.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	94	C34	AQ	70		MD1-0	8.5	7	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	94	C34	AQ		70	MF	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	
D	94	C34	AQ	71		MD1-0	4.5	2	2.2			Actinolite	TAS_AHRA
D	94	C34	AQ		71	MF	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	
D	95	C43	CD	72		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
D	95	C43	CD		72	MF	0.6	0.1	6.0			Chrysotile	
D	96	C23	AQ	73	73	F	4.5	0.5	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	96	C23	CD	74	74	F	4.8	0.11	44			Chrysotile	TAS_AHRA
D	97	C3	AQ	75	75	F	3.8	1	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	98	B13	CD	76	76	F	0.8	0.08	10			Chrysotile	TAS_AHRA
D	99	B33	CD	77	77	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
D	100	B42	AQ	78	78	F	22	3	7.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	100	B42	AQ	79	79	F	4.8	1.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	101	B22	AQ	80	80	F	4.5	0.7	6.4			Na, Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	101	B22	AQ	81	81	F	2.7	0.6	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	102	B2		NSD									
D	103	C12	AQ	82	82	F	4.2	0.5	8.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	104	C32		NSD									
D	105	C42		NSD									
D	106	C40		NSD									
D	107	C20		NSD									
D	108	C10		NSD									
D	109	B10	AQ	83	83	F	20	1.7	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	109	B10	AQ	84	84	F	4.6	1	4.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	110	B30		NSD									
D	111	B40		NSD									
D	112	A41	AQ	85	85	F	26.5	3.3	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	112	A41	AQ	86	86	F	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	113	A21	AQ	87	87	F	5.1	0.6	8.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	114	A1		NSD									
D	115	D11	AQ	88	88	F	12	3.8	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	116	D31		NSD									
D	117	D23	AQ	89		MD1-0	13	8	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	117	D23	AQ		89	MF	2.5	0.3	8.3			Mg, Al, Si, Ca, Fe Actinolite	
D	118	D3	AQ	90	90	F	3.6	0.45	8.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
D	118	D3	AQ	91	91	F	12	1.5	8.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	119	A13		NSD									
D	120	A33		NSD									
E	121	A33	AQ	92	92	F	1.2	0.2	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	122	A13		NSD									
E	123	D3	AQ	93	93	F	2.2	0.5	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	124	D23	AQ	94	94	F	3.5	0.3	12			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	125	D43	AQ	95	95	F	8	1	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	126	C40	AQ	96	96	F	2.4	0.4	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	127	C10		NSD									
E	128	B10		NSD									
E	129	B30	AQ	97	97	F	23	4	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	130	B42	AQ	98	98	F	5.1	1.5	3.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	131	B22	AQ	99	99	F	7	2.2	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	131	B22	AQ	100	100	F	12	4	3.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	131	B22	AQ	101	101	F	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	131	B22	AQ	102	102	F	2	0.5	4.0			Mg, Si, Ca, Fe Tremolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	AQ	1		MD1-1	10	7	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	B44	AQ		1	MF	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	1	B44	CD	2		MD1-0	4	0.7	5.7			Chrysotile	TAS_AHRA
A	1	B44	CD		2	MF	2	0.1	20			Chrysotile	
A	2	B24		NSD									
A	3	B4	CD	3		MD1-0	1.8	0.3	6.0			Chrysotile	TAS_AHRA
A	3	B4	CD		3	MF	0.8	0.08	10			Chrysotile	
A	4	C14	AZQ	4	4	F	2.7	0.6	4.5	1460	1110	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 1 0] - KM	TAS_AHRA
A	4	C14	CDQ	5		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
A	4	C14	CDQ		5	MF	2.5	0.1	25	1461	1111	Mg, Al, Si Chrysotile Verified - KM	
A	5	C34		NSD									
A	6	C43		NSD									
A	7	C23		NSD									
A	8	C3	CD	6	6	F	1	0.1	10			Chrysotile	TAS_AHRA
A	9	B13	AQ	7	7	F	1.7	0.35	4.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	B33		NSD									
A	11	B42		NSD									
A	12	B22		NSD									
A	13	B2	AQ	8		MD1-1	10	10	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	B2	AQ		8	MF	6.8	0.7	9.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	13	B2	CD	9		MD1-0	1.5	0.25	6.0			Chrysotile	TAS_AHRA
A	13	B2	CD		9	MF	1.2	0.1	12			Chrysotile	
A	13	B2	CD	10	10	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	14	C12		NSD									
A	15	C32	AQ	11		MD1-0	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	15	C32	AQ		11	MF	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	
A	16	C41	AQ	12	12	F	4	0.9	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	16	C41	CD	13	13	F	1	0.1	10			Chrysotile	TAS_AHRA
A	17	C21		NSD									
A	18	C1	CD	14		MD1-0	2.8	2	1.4			Chrysotile	TAS_AHRA
A	18	C1	CD		14	MF	1.22	0.1	12			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	19	B11	CD	15		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
A	19	B11	CD		15	MF	2	0.1	20			Chrysotile	
A	19	B11	AQ	16		MD1-1	12	5	2.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	19	B11	AQ		16	MF	11	1.2	9.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	19	B11	AQ	17	17	F	5.1	1.2	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	20	B31	CD	18	18	F	6	0.1	60			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	21	A40		NSD									
A	22	A20	AQ	19	19	F	5	0.6	8.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	23	A10		NSD									
A	24	A41	AQ	20	20	F	12	2.5	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	24	A41	AQ	21	21	F	9	1.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	24	A41	AQ	22	22	F	6	1.2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	25	A21	CD	23		MD1-0	8	6	1.3			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	25	A21	CD		23	MF	2.5	0.12	21			Chrysotile	
A	26	A1		NSD									
A	27	D11	AQ	24		MD1-1	15	15	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	27	D11	AQ		24	MF	5.2	0.65	8.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	28	D31	AQ	25	25	B	8.5	0.7	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	D2	AQ	26		MD1-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	D2	AQ		26	MF	5.4	0.45	12			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
A	30	D12	CD	27	27	B	1.5	0.2	7.5			Chrysotile	TAS_AHRA
A	30	D12	AQ	28	28	F	4.5	0.7	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	B34		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	B14		NSD									
B	33	C4	AQ	29	29	F	0.9	0.25	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	C4	AQ	30		MD1-1	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C4	AQ		30	MF	5.2	0.55	9.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	34	C24	AQ	31	31	F						Actinolite	TAS_AHRA
B	35	C44	AQ	32		MD1-1	15	7	2.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	35	C44	AQ		32	MF	5.5	0.8	6.9			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	35	C44	AQ	33	33	F	7.5	2.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	36	C33	AQ	34		MD1-1	9	8	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	36	C33	AQ		34	MF	5.8	0.68	8.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	37	C13	CD	35	35	F	0.9	0.12	7.5			Chrysotile	TAS_AHRA
B	38	B3	CD	36		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
B	38	B3	CD		36	MF	0.8	0.08	10			Chrysotile	
B	38	B3	AQ	37	37	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	39	B23		NSD									
B	40	B43	AQ	38		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
B	40	B43	AQ		38	MF	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	
B	40	B43	CD	39	39	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	41	B32	AQ	40	40	F	2.8	0.35	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	42	B12		NSD									
B	43	C2		NSD									
B	44	C22	CD	41	41	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	44	C22	AQ	42		MD1-0	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	C22	AQ		42	MF	4	1	4.0			Mg, Al, Si, Ca, Fe Actinolite	
B	45	C42	CD	43	43	F	1.1	0.11	10			Chrysotile	TAS_AHRA
B	46	C31	AQ	44		MD1-1	25	10	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	46	C31	AQ		44	MF	12	2	6.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	47	C11	AQ	45	45	F	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	47	C11	AQ	46	46	F	5.5	0.6	9.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

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Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	47	C11	AQ	47		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
B	47	C11	AQ		47	MF	4	0.38	11			Mg, Al, Si, Ca, Fe Actinolite	
B	48	B1	AQ	48	48	F	1.2	0.22	5.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	48	B1	CD	49		MD1-0	5.2	1.8	2.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	B1	CD		49	MF	4	0.12	33			Chrysotile	
B	48	B1	AQ	50	50	F	1.8	0.5	3.6			Actinolite	TAS_AHRA
B	49	B21	AQ	51	51	F	2	0.45	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	50	B41	AQ	52	52	F	9	1	9.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A41	CD	53	53	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	51	A41	AQ	54	54	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A41	AQ	55	55	F	8	2	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A41	CD	56	56	F	2.5	0.1	25			Chrysotile	TAS_AHRA
B	52	A21	CD	57	57	F	2	0.1	20			Chrysotile	TAS_AHRA
B	53	A1	AQ	58	58	F	1.8	0.52	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	D11	CD	59	59	F	5.5	0.1	55			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	D31		NSD									
B	56	A42	AQ	60	60	F	15	4	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	56	A42	CD	61	61	F	2.5	0.12	21			Chrysotile	TAS_AHRA
B	57	A22		NSD									
B	58	A2	AQ	62	62	F	15	1.5	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	59	D12	AQ	63	63	F	2.7	0.4	6.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	59	D12	AQ	64	64	F	7	1.8	3.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	60	D32	AQ	65	65	F	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	A34	AQ	66	66	F	2	0.35	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	A34	AQ	67		MD1-0	2	2	1.0			Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	61	A34	AQ		67	MF	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	
C	62	A14		NSD									
C	63	D4	AQ	68	68	F	1.8	0.35	5.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	63	D4	CD	69	69	F	2	0.12	17			Chrysotile	TAS_AHRA
C	63	D4	AQ	70	70	F	7	0.7	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	64	D24	AQ	71	71	F	4.5	0.7	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	65	D44	CD	72	72	F	3	0.11	27			Chrysotile	TAS_AHRA
C	66	D33		NSD									
C	67	D13		NSD									
C	68	A3	AQ	73		MD1-0	8	5	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	68	A3	AQ		73	MF	1.7	0.5	3.4			Mg, Al, Si, Ca, Fe Actinolite	
C	68	A3	AQ	74		MD1-0	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	68	A3	AQ		74	MF	4	0.35	11			Mg, Al, Si, Ca, Fe Actinolite	
C	69	A23	AQ	75		MD1-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	69	A23	AQ		75	MF	5.2	1.2	4.3			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	69	A23	AQ	76	76	F	2	0.38	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	70	A43	AQ	77	77	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	71	A22	AQ	78	78	F	7	0.6	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	A12	CD	79	79	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
C	72	A12	AQ	80	80	F	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	73	D2	CD	81	81	F	1	0.1	10			Chrysotile	TAS_AHRA
C	74	D22		NSD									
C	75	D42	AQ	82		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	75	D42	AQ		82	MF	6.8	0.45	15			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
C	76	D31	CD	83	83	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	76	D31	AQ	84	84	F	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	77	D11		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	78	A1	AQ	85	85	F	4.5	0.6	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	78	A1	CD	86	86	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
C	79	A21	CD	87		MD1-0	2.5	1	2.5			Chrysotile	TAS_AHRA
C	79	A21	CD		87	MF	0.6	0.08	7.5			Chrysotile	
C	79	A21	AQ	88	88	F	7	0.6	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	79	A21	AQ	89	89	F	4.5	0.65	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	80	A41	AQ	90	90	F	3.2	0.45	7.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	81	B31	AQ	91	91	F	2.5	0.38	6.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	82	B11	AQ	92	92	F	12	3	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	82	B11	CD	93	93	F	1.5	0.08	19			Chrysotile	TAS_AHRA
C	83	C1	AQ	94	94	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	84	C21	AQ	95	95	F	2.5	0.38	6.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	84	C21	CD	96	96	F	1.8	0.1	18			Chrysotile	TAS_AHRA
C	85	C41	CD	97	97	F	3.5	0.1	35			Chrysotile	TAS_AHRA
C	85	C41	AQ	98		MD1-0	4	2.5	1.6			Actinolite	TAS_AHRA
C	85	C41	AQ		98	MF	4	0.4	10			Mg, Al, Si, Ca, Fe Actinolite	
C	86	C12	AQ	99	99	F	8	1.5	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	86	C12	AQ	100	100	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	87	B2	AQ	101	101	F	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	87	B2	AQ	102	102	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B24		NSD									
A	2	B4	AQ	1	1	F	4.5	1.2	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	B4	AQ	2	2	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	C14		NSD									
A	4	C34	AQ	3		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
A	4	C34	AQ		3	MF	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	
A	5	C44		NSD									
A	6	C42		NSD									
A	7	C22	AQ	4	4	F	11	2.5	4.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	8	C2	AQ	5	5	F	4.8	1.1	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	B12		NSD									
A	10	B2	AQ	6	6	F	14	1.6	8.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	11	B32		NSD									
A	12	B42		NSD									
A	13	B40		NSD									
A	14	B20		NSD									
A	15	B10	AQ	7	7	F	8	0.6	13			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	16	C10	AQ	8	8	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	C30		NSD									
A	18	C40		NSD									
A	19	D41	CDQ	9	9	F	1.1	0.07	16	1471	1126	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	20	D21		NSD									
A	21	D1		NSD									
A	22	A11	AQ	10	10	F	7.2	1.5	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	23	A31	AZQ	11	11	F	2.5	0.25	10	1472	1127	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 1] - JH	TAS_AHRA
A	24	A41		NSD									
A	25	A22		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	26	A2	AQ	12	12	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	26	A2	CMQ	13	13	F	2.3	0.06	38			Mg, Si Chrysotile	TAS_AHRA
A	27	D3	CDQ	14	14	F	4	0.06	67			Mg, Si Chrysotile	TAS_AHRA
A	28	D23	AQ	15	15	F	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	28	D23	AQ	16	16	F	14	4	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	29	D43	CD	17	17	F	2.5	0.05	50			Chrysotile	TAS_AHRA
A	30	D4		NSD									
B	31	A44		NSD									
B	32	A24	AQ	18	18	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A4		NSD									
B	34	D14		NSD									
B	35	D34	AQ	19		MD1-1	14	8	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	35	D34	AQ		19	MF	12	3	4.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	36	D43	AQ	20		MD1-1	20	10	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	D43	AQ		20	MF	9	1.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	37	D23	AQ	21	21	F	2.5	0.7	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	38	D3	AQ	22		MD1-1	6	2	3.0			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	D3	AQ		22	MF	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	39	A13		NSD									
B	40	A33	OZQ	23		MD1-0	8	6	1.3			Edenite	TOS_AHRA, OS>5_AHRA, OS5-10_AHRA
B	40	A33	OZQ		23	MF	3	0.4	7.5	1473	1128	Na, Mg, Al, Si, K, Ca, Fe Edenite Zone Axis [3 1 6] - KM	
B	40	A33	AQ	24		MD1-1	12	6	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	40	A33	AQ		24	MF	7.5	1.2	6.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	41	A43		NSD									
B	42	A23		NSD									
B	43	A3		NSD									
B	44	D13		NSD									
B	45	D33		NSD									

Lab/Cor, Inc.

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	46	A32	AZQ	25		MD1-0	7	5	1.4			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	A32	AZQ		25	MF	4	0.38	11	1480	1133	Mg, Al, Si, Ca, Fe Tremolite Zone Axis [5 1 4] - KM	
B	47	A22		NSD									
B	48	A2		NSD									
B	49	B41		NSD									
B	50	B21	AQ	26	26	F	4.8	0.6	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	51	C1	AQ	27	27	F	7	1	7.0			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	C1	CD	28	28	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	52	C21		NSD									
B	53	C41	AQ	29	29	F	13	1.2	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	53	C41	AQ	30	30	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	C42		NSD									
B	55	C22	AQ	31		MD1-0	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	C22	AQ		31	MF	3.5	0.5	7.0			Mg, Al, Si, Ca, Fe Actinolite	
B	56	C2	CD	32		MD1-0	4	0.6	6.7			Chrysotile	TAS_AHRA
B	56	C2	CD		32	MF	3.5	0.1	35			Chrysotile	
B	56	C2	AQ	33	33	F	12.5	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	57	B12		NSD									
B	58	B32	AQ	34	34	F	4	0.35	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	59	B13	AQ	35		MD1-1	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	B13	AQ		35	MF	8.55	1.8	4.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	59	B13	CD	36	36	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	60	C3	AQ	37	37	F	4.2	0.8	5.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	A44		NSD									
C	62	A24	AQ	38	38	F	2.5	0.4	6.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	63	A14		NSD									
C	64	D4	CD	39	39	F	1	0.08	12			Chrysotile	TAS_AHRA
C	65	D24		NSD									

Lab/Cor, Inc.

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Report # 041188R15

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	66	D44	AQ	40	40	F	3	0.25	12			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	66	D44	AQ	41	41	F	9	2	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	66	D44	AQ	42	42	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	67	D42		NSD									
C	68	D22		NSD									
C	69	D2		NSD									
C	70	A12	AQ	43	43	F	18	4	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	70	A12	AQ	44	44	F	8	1.1	7.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	71	A32	AQ	45	45	F	2.2	0.25	8.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	72	A42		NSD									
C	73	A40		NSD									
C	74	A20	AQ	46	46	F	5.2	1.4	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	74	A20	AQ	47	47	F	11	0.6	18			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	74	A20	AQ	48	48	F	6.5	0.45	14			Mg, Si, Ca, Fe Tremolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	75	A10		NSD									
C	76	D10		NSD									
C	77	D30		NSD									
C	78	D40		NSD									
C	79	C41	AQ	49	49	F	13	2	6.5			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	80	C21		NSD									
C	81	C1		NSD									
C	82	B11	AQ	50		MD1-0	5.5	5	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	82	B11	AQ		50	MF	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	83	B31		NSD									
C	84	B41	CD	51	51	F	1.4	0.08	18			Mg, Si Chrysotile	TAS_AHRA
C	85	B43		NSD									
C	86	B23		51	51	F	15	4	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5
C	87	B3	AQ	52	52	F	2.4	0.3	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	C13	AQ	53	53	F	2.2	0.25	8.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	C13	AQ	54	54	F	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	88	C13	AQ	55	55	F	8.6	2.1	4.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	89	C33		NSD									
C	90	C43		NSD									
D	91	B24	AQ	56	56	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	91	B24	AQ	57		MD1-0	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	91	B24	AQ		57	MF	2	0.4	5.0			Mg, Al, Si, Ca, Fe Actinolite	
D	92	B4		NSD									
D	93	C14		NSD									
D	94	C34		NSD									
D	95	C44	AQ	58	58	F	9	1.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	96	C42	AQ	59	59	F	7.5	0.5	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	97	C22	AQ	60	60	F	16	3	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	98	C2	AQ	61	61	F	5.5	1.7	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	99	B12		NSD									
D	100	B32		NSD									
D	101	B42		NSD									
D	102	B40		NSD									

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	103	B20		NSD									
D	104	B10		NSD									
D	105	C10	AQ	62	62	F	13	1.5	8.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	106	C30	AQ	63	63	F	9	1.3	6.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	107	C40		NSD									
D	108	D41		NSD									
D	109	D21		NSD									
D	110	D1	AQ	64	64	F	7.5	0.7	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	111	A11		NSD									
D	112	A31		NSD									
D	113	A41		NSD									
D	114	A43	AQ	65	65	F	8	1.5	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	115	A23	AQ	66	66	F	5.1	1	5.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	116	A3		NSD									
D	117	D13		NSD									
D	118	D33		NSD									
D	119	D43	AQ	67	67	F	12	3	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	119	D43	AQ	68	68	F	9.5	2.7	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	119	D43	AQ	69	69	F	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	120	D44		NSD									
E	121	A34	AQ	70	70	F	4.7	0.7	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	122	A14	AQ	71		MD1-0	4	3	1.3			Actinolite	TAS_AHRA
E	122	A14	AQ		71	MF	1.2	0.22	5.5			Mg, Al, Si, Ca, Fe Actinolite	
E	123	D4	AQ	72	72	F	11	1.2	9.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	124	D24	AQ	73	73	F	7.5	1.2	6.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	125	D44		NSD									
E	126	D33	AQ	74	74	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	127	D13	AQ	75	75	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	127	D13	CD	76		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
E	127	D13	CD		76	MF	1.12	0.1	11			Chrysotile	
E	128	A3		NSD									
E	129	A23		NSD									
E	130	A43		NSD									
E	131	A32		NSD									
E	132	A12	AQ	77	77	F	12.5	0.7	18			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	133	D2		NSD									
E	134	D42	CD	78		MD1-0	4.5	2	2.2			Chrysotile	TAS_AHRA
E	134	D42	CD		78	MF	1.8	0.1	18			Chrysotile	
E	135	D22		NSD									
E	136	D31	AQ	79	79	F	2.2	0.6	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	137	D11		NSD									
E	138	A1		NSD									
E	139	A21		NSD									
E	140	A41	AQ	80		MD1-0	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	140	A41	AQ		80	MF	4.2	0.45	9.3			Mg, Al, Si, Ca, Fe Actinolite	
E	141	B41		NSD									
E	142	B21		NSD									
E	143	B1	AQ	81	81	F	3.5	0.5	7.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	144	C21	AQ	82	82	B	1.8	1.8	1.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	144	C21	AQ	83		MD1-1	15	8	1.9			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	144	C21	AQ		83	MF	15	3	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
E	145	C31		NSD									
E	146	C32		NSD									
E	147	C22		NSD									

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A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	148	C2	AQ	84	84	F	5.2	1	5.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	149	B12		NSD									
E	150	B42	CD	85	85	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
F	151	A14	AQ	86	86	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	151	A14	AQ	87		MD1-0	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	151	A14	AQ		87	MF	3	0.45	6.7			Actinolite	
F	152	A4	CD	88		MD1-0	3	3	1.0			Chrysotile	TAS_AHRA
F	152	A4	CD		88	MF	3	0.1	30			Chrysotile	
F	152	A4	AQ	89		MD2-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	152	A4	AQ		89	MF	7	2	3.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	152	A4	AQ		90	MF	4.7	1.2	3.9			Mg, Al, Si, Ca, Fe Actinolite	
F	153	D14		NSD									
F	154	D34		NSD									
F	155	D33		NSD									
F	156	D23	CD	90		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
F	156	D23	CD		91	MF	1	0.1	10			Chrysotile	
F	157	D3		NSD									
F	158	A13		NSD									
F	159	A33	AQ	91	92	F	6	0.7	8.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	159	A33	CD	92	93	F	4.2	0.11	38			Chrysotile	TAS_AHRA
F	160	A42	AQ	93		MD1-1	6	2.5	2.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	160	A42	AQ		94	MF	6	0.7	8.6			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	161	A22	AQ	94	95	F	4.5	1.2	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	161	A22	AQ	95	96	F	8	1.2	6.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	162	A2		NSD									
F	163	D32		NSD									
F	164	D42	CD	96		MD1-0	4.5	3	1.5			Chrysotile	TAS_AHRA
F	164	D42	CD		97	MF	0.6	0.08	7.5			Chrysotile	
F	165	D31	CD	97	98	F	1.1	0.1	11			Chrysotile	TAS_AHRA

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Report # 041188R15

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
F	166	D11		NSD									
F	167	A1	AQ	98		MD1-0	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
F	167	A1	AQ		99	MF	4	0.35	11			Mg, Al, Si, Ca, Fe Actinolite	
F	167	A1	CD	99	100	F	1.5	0.1	15			Chrysotile	TAS_AHRA
F	168	A21	AQ	100	101	F	2.5	0.7	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	168	A21	AQ	101	102	F	6	1.2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B24	AZQ	1	1	F	5.5	0.65	8.5	179	15876	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [1 0 0] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	2	B14		NSD									
A	3	B4		NSD									
A	4	C4		NSD									
A	5	C14		NSD									
A	6	C24	AQ	2	2	F	1.5	0.3	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	C24	AQ	3	3	F	3	0.25	12			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	7	C34	AQ	4		MD1-1	25	25	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	7	C34	AQ		4	MF	5.5	0.25	22			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
A	8	C44		NSD									
A	9	B42	AQ	5		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
A	9	B42	AQ		5	MF	4	1	4.0			Mg, Si, Ca, Fe Actinolite	
A	10	B32		NSD									
A	11	B22		NSD									
A	12	B12		NSD									
A	13	B2	AQ	6		MD1-0	5	4	1.2			Actinolite	TAS_AHRA
A	13	B2	AQ		6	MF	3	0.6	5.0			Mg, Si, Ca, Fe Actinolite	
A	13	B2	AQ	7	7	F	3	0.2	15			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	13	B2	AQ	8		MD1-1	6	2.5	2.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	B2	AQ		8	MF	6	1.5	4.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	14	C2	AQ	9		MD1-1	25	15	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	14	C2	AQ		9	MF	12	0.75	16			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	15	C12	AQ	10		MD1-0	3	1.2	2.5			Actinolite	TAS_AHRA
A	15	C12	AQ		10	MF	1.5	0.4	3.8			Mg, Si, Ca, Fe Actinolite	
A	16	C22		NSD									
A	17	C32		NSD									
A	18	C42		NSD									
A	19	B40		NSD									
A	20	B30		NSD									
A	21	B20		NSD									

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	22	B10		NSD									
A	23	C10		NSD									
A	24	C20	AQ	11	11	F	2.75	0.35	7.9			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	25	C30		NSD									
A	26	C40		NSD									
A	27	A41	AQ	12		MD1-1	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	27	A41	AQ		12	MF	7.5	0.65	12			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	28	A31		NSD									
A	29	A21		NSD									
A	30	A11		NSD									
A	31	A1		NSD									
A	32	D1		NSD									
A	33	D11		NSD									
A	34	D21		NSD									
A	35	D31		NSD									
A	36	D41		NSD									
A	37	A42		NSD									
A	38	A32		NSD									
A	39	A22		NSD									
A	40	A12		NSD									
A	41	A2	AQ	13	13	F	2.5	0.75	3.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	42	D2		NSD									
A	43	D12		NSD									
A	44	D22	AQ	14	14	F	15	2.5	6.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	45	D32		NSD									
A	46	D42		NSD									
B	47	B34	CDQ	15	15	F	1.8	0.11	16	180	15877	Mg, Si Chrysotile Verified - KM	TAS_AHRA
B	48	B14	AQ	16	16	F	1.5	0.3	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	49	C4	CD	17	17	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	50	C24		NSD									
B	51	C44		NSD									
B	52	C33	CD	18	18	F	2	0.12	17			Chrysotile	TAS_AHRA

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	52	C33	CDQ	19	19	B	1.7	0.25	6.8			Mg, Si Chrysotile	TAS_AHRA
B	53	C13	CD	20		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
B	53	C13	CD		20	MF	1.8	0.1	18			Chrysotile	
B	53	C13	CD	21	21	F	1	0.1	10			Chrysotile	TAS_AHRA
B	54	B3		NSD									
B	55	B23	CD	22	22	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	55	B23	CD	23	23	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	56	B43	CD	24		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
B	56	B43	CD		24	MF	0.8	0.1	8.0			Chrysotile	
B	57	B32	CD	25	25	F	3.8	0.1	38			Chrysotile	TAS_AHRA
B	57	B32	CD	26	26	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	57	B32	CD	27	27	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	57	B32	AQ	28	28	F	5.2	1.2	4.3			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	58	B12	CD	29	29	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
B	59	C12		NSD									
B	60	C22	CD	30	30	B	1	0.2	5.0			Chrysotile	TAS_AHRA
B	60	C22	AQ	31	31	F	3.8	0.6	6.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	60	C22	CD	32		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
B	60	C22	CD		32	MF	1.2	0.11	11			Chrysotile	
B	61	C42	CD	33	33	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	62	C31	CD	34	34	B	1.5	0.15	10			Chrysotile	TAS_AHRA
B	62	C31	CDQ	35	35	B	4	0.15	27			Mg, Si Chrysotile	TAS_AHRA
B	63	C11	CD	36	36	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	63	C11	CD	37	37	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	64	B1	CD	38	38	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	64	B1	CD	39	39	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	64	B1	CD	40	40	F	1	0.1	10			Chrysotile	TAS_AHRA
B	65	B21	CD	41	41	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	65	B21	AQ	42		MD1-0	4.5	2	2.2			Actinolite	TAS_AHRA
B	65	B21	AQ		42	MF	2	0.4	5.0			Mg, Si, Ca, Fe Actinolite	
B	66	B41	CD	43	43	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	66	B41	CD	44	44	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	66	B41	AQ	45		MD1-1	6.5	1.5	4.3			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	66	B41	AQ		45	MF	6	0.6	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	66	B41	CD	46	46	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	66	B41	CD	47		MD1-0	1.5	0.8	1.9			Chrysotile	TAS_AHRA
B	66	B41	CD		47	MF	0.6	0.1	6.0			Chrysotile	
B	67	A31	CD	48	48	F	1	0.1	10			Chrysotile	TAS_AHRA
B	67	A31	CD	49	49	B	3	0.2	15			Chrysotile	TAS_AHRA
B	67	A31	CD	50	50	F	1	0.12	8.3			Chrysotile	TAS_AHRA
B	68	A11	CD	51	51	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	68	A11	CD	52	52	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	68	A11	CD	53		MD1-0	1.5	0.8	1.9			Chrysotile	TAS_AHRA
B	68	A11	CD		53	MF	1	0.1	10			Chrysotile	
B	68	A11	CD	54	54	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA
B	69	D1	CD	55	55	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	69	D1	CD	56	56	B	4.2	0.2	21			Chrysotile	TAS_AHRA
B	69	D1	CD	57	57	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	70	D21	AQ	58	58	F	2.5	0.5	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	70	D21	AQ	59	59	F	4.5	1.2	3.7			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	70	D21	CD	60	60	F	2	0.1	20			Chrysotile	TAS_AHRA
B	70	D21	CD	61	61	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	70	D21	CD	62	62	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	70	D21	AQ	63	63	F	2.2	0.22	10			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	71	D41	CD	64	64	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	71	D41	AQ	65	65	F	1.7	0.4	4.2			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	71	D41	CD	66	66	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	71	D41	CD	67	67	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	72	D32	CD	68	68	B	3	0.15	20			Chrysotile	TAS_AHRA
B	72	D32	CD	69	69	F	1	0.1	10			Chrysotile	TAS_AHRA
B	72	D32	CD	70		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
B	72	D32	CD		70	MF	1.5	0.1	15			Chrysotile	
B	73	D12	AQ	71	71	F	4	0.25	16			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	73	D12	CD	72	72	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	73	D12	CD	73	73	F	1.5	0.1	15			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	73	D12	CD	74	74	F	1.5	0.12	12			Chrysotile	TAS_AHRA
B	73	D12	CD	75	75	F	1	0.1	10			Chrysotile	TAS_AHRA
B	74	A2	AQ	76		MD1-1	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	74	A2	AQ		76	MF	8.5	1.2	7.1			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	74	A2	CD	77	77	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	74	A2	AQ	78	78	F	2	0.2	10			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	74	A2	CD	79	79	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	74	A2	CD	80	80	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	74	A2	AQ	81	81	F	8	1	8.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	74	A2	CD	82	82	F	1	0.1	10			Chrysotile	TAS_AHRA
B	75	A22	CD	83	83	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	75	A22	CD	84	84	F	8.2	0.1	82			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	75	A22	CD	85	85	F	1	0.1	10			Chrysotile	TAS_AHRA
B	75	A22	CD	86	86	F	3.2	0.1	32			Chrysotile	TAS_AHRA
B	75	A22	CD	87	87	F	0.9	0.12	7.5			Chrysotile	TAS_AHRA
C	76	B44	CD	88	88	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	77	B24	CD	89		MD1-0	1	0.6	1.7			Chrysotile	TAS_AHRA
C	77	B24	CD		89	MF	0.5	0.1	5.0			Chrysotile	
C	78	B4	CD	90	90	F	1	0.08	12			Chrysotile	TAS_AHRA
C	78	B4	CDQ	91	91	B	1.2	0.12	10			Mg, Si Chrysotile	TAS_AHRA
C	78	B4	AQ	92	92	F	9	1.2	7.5			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	78	B4	CD	93	93	B	3	0.4	7.5	181		Mg, Si Chrysotile Verified - KM	TAS_AHRA
C	78	B4	CD	94	94	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	79	C14	CD	95	95	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	79	C14	CD	96	96	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	79	C14	AQ	97	97	F	12.5	1.5	8.3			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	80	C34	CD	98	98	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	80	C34	CD	99	99	F	1.8	0.12	15			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	81	C22	CD	100	100	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	81	C22	CD	101	101	F	2	0.1	20			Chrysotile	TAS_AHRA
C	82	B4	CD	102	102	F	1	0.1	10			Mg,Si Chrysotile	TAS_AHRA
C	82	B4	CD	103	103	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	82	B4	CD	104		MD1-0	3.5	1	3.5			Chrysotile	TAS_AHRA
C	82	B4	CD		104	MB	2.5	0.75	3.3			Chrysotile	
C	82	B4	CD	105		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
C	82	B4	CD		105	MF	1	0.1	10			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-3CH-100604 *Lab/Cor Sample No.:* B4771 S47 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	CDQ	1	1	F	1.5	0.08	19			Mg, Si Chrysotile	TAS_AHRA
A	2	B24	CMQ	2	2	F	1.8	0.12	15			Mg, Si Chrysotile	TAS_AHRA
A	3	B4	CD	3	3	B	1.2	0.15	8.0			Chrysotile	TAS_AHRA
A	4	C14	CDQ	4	4	F	1.2	0.1	12	1559	1193	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	C14	AQ	5	5	F	10.5	3.3	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	4	C14	CD	6	6	F	0.6	0.11	5.5			Chrysotile	TAS_AHRA
A	5	C34	CD	7	7	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	5	C34	CD	8		MD1-0	3.2	0.8	4.0			Chrysotile	TAS_AHRA
A	5	C34	CD		8	MF	0.7	0.08	8.8			Chrysotile	
A	5	C34	CD	9	9	F	1.7	0.1	17			Chrysotile	TAS_AHRA
A	6	C43	CD	10	10	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	6	C43	CD	11	11	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	6	C43	AQ	12	12	F	5.5	0.8	6.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	7	C23	CD	13	13	F	1	0.1	10			Chrysotile	TAS_AHRA
A	7	C23	CD	14	14	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	7	C23	CD	15	15	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	7	C23	CD	16	16	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	7	C23	CD	17	17	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
A	7	C23	CD	18	18	F	2	0.1	20			Chrysotile	TAS_AHRA
A	8	C3	AQ	19	19	F	2	0.45	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	C3	CD	20	20	F	0.7	0.05	14			Chrysotile	TAS_AHRA
A	8	C3	CD	21	21	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
A	9	B3	CDQ	22	22	F	1	0.08	12			Mg, Si Chrysotile	TAS_AHRA
A	9	B3	CD	23		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
A	9	B3	CD		23	MF	0.7	0.07	10			Chrysotile	
A	9	B3	CD	24	24	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	9	B3	CD	25	25	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	9	B3	AQ	26	26	F	5.5	0.7	7.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	10	B13	CD	27	27	F	0.55	0.05	11			Chrysotile	TAS_AHRA
A	10	B13	CD	28		MD1-0	2.8	1.5	1.9			Chrysotile	TAS_AHRA
A	10	B13	CD		28	MF	0.5	0.08	6.2			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-3CH-100604 *Lab/Cor Sample No.:* B4771 S47 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	11	B33	CD	29	29	F	0.8	0.07	11			Chrysotile	TAS_AHRA
A	11	B33	AZQ	30	30	B	3.2	1	3.2	1560	1194	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [9 1 8] - JH	TAS_AHRA
A	11	B33	CD	31	31	F	0.5	0.06	8.3			Chrysotile	TAS_AHRA
A	12	B43	CD	32	32	F	0.5	0.06	8.3			Chrysotile	TAS_AHRA
A	13	B41	CD	33	33	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	13	B41	CD	34	34	F	7.5	0.07	110			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	B41	CD	35	35	F	0.9	0.07	13			Chrysotile	TAS_AHRA
A	13	B41	CD	36	36	F	0.7	0.06	12			Chrysotile	TAS_AHRA
A	13	B41	CD	37	37	F	1	0.08	12			Chrysotile	TAS_AHRA
A	13	B41	CD	38	38	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	14	B21	CD	39	39	F	1	0.07	14			Chrysotile	TAS_AHRA
A	14	B21	CD	40	40	F	1.1	0.07	16			Chrysotile	TAS_AHRA
A	14	B21	CD	41	41	F	0.7	0.06	12			Chrysotile	TAS_AHRA
A	15	B1	AQ	42		MD1-0	18	13	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	15	B1	AQ		42	MF	3.8	0.9	4.2			Mg, Al, Si, Ca, Fe Actinolite	
A	16	C11	CD	43	43	F	1.1	0.06	18			Chrysotile	TAS_AHRA
A	16	C11	CD	44	44	F	0.8	0.06	13			Chrysotile	TAS_AHRA
A	16	C11	CD	45	45	F	4	0.06	67			Chrysotile	TAS_AHRA
A	16	C11	CD	46	46	F	0.5	0.05	10			Chrysotile	TAS_AHRA
A	16	C11	CD	47	47	F	1.3	0.06	22			Chrysotile	TAS_AHRA
A	17	C41	CD	48	48	F	2	0.06	33			Chrysotile	TAS_AHRA
A	17	C41	CD	49	49	F	0.7	0.06	12			Chrysotile	TAS_AHRA
B	18	A33	CD	50	50	F	0.7	0.06	12			Chrysotile	TAS_AHRA
B	18	A33	CD	51	51	F	1	0.07	14			Chrysotile	TAS_AHRA
B	18	A33	CD	52	52	F	0.7	0.06	12			Chrysotile	TAS_AHRA
B	19	A13	CD	53	53	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	20	D3	CD	54	54	F	0.7	0.06	12			Chrysotile	TAS_AHRA
B	20	D3	CD	55	55	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	21	D23	CD	56	56	F	0.5	0.06	8.3			Chrysotile	TAS_AHRA
B	21	D23	CD	57	57	F	0.5	0.06	8.3			Chrysotile	TAS_AHRA
B	22	D43	CD	58	58	F	0.6	0.06	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-3CH-100604 *Lab/Cor Sample No.:* B4771 S47 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	22	D43	CD	59	59	F	0.8	0.06	13			Chrysotile	TAS_AHRA
B	22	D43	CD	60	60	F	1	0.06	17			Chrysotile	TAS_AHRA
B	23	D41	CD	61	61	F	1	0.06	17			Chrysotile	TAS_AHRA
B	24	D21	AQ	62	62	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	24	D21	CD	63	63	F	1.5	0.06	25			Chrysotile	TAS_AHRA
B	24	D21	CD	64	64	F	1.5	0.06	25			Chrysotile	TAS_AHRA
B	24	D21	AQ	65	65	F	3.5	0.5	7.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	D21	CD	66	66	F	1	0.07	14			Chrysotile	TAS_AHRA
B	24	D21	CD	67	67	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	25	D1	CD	68		MD1-0	3	2.5	1.2			Chrysotile	TAS_AHRA
B	25	D1	CD		68	MF	1.2	0.06	20			Chrysotile	
B	26	A31	CD	69	69	F	1	0.06	17			Chrysotile	TAS_AHRA
B	26	A31	CD	70	70	F	0.6	0.06	10			Chrysotile	TAS_AHRA
B	26	A31	CD	71	71	F	0.6	0.06	10			Chrysotile	TAS_AHRA
B	27	A41	CD	72	72	F	0.6	0.06	10			Chrysotile	TAS_AHRA
B	27	A41	CD	73	73	F	1.2	0.07	17			Chrysotile	TAS_AHRA
B	28	B40	CDQ	74	74	F	0.7	0.06	12			Mg, Si Chrysotile	TAS_AHRA
B	28	B40	CDQ	75	75	F	0.9	0.07	13			Mg, Si Chrysotile	TAS_AHRA
B	28	B40	CDQ	76	76	F	0.9	0.07	13	1561	1195	Mg, Si Chrysotile Verified - JH	TAS_AHRA
B	29	B20	CD	77	77	F	1.3	0.06	22			Chrysotile	TAS_AHRA
B	29	B20	CD	78		MD1-0	2.7	1.3	2.1			Chrysotile	TAS_AHRA
B	29	B20	CD		78	MF	1	0.05	20			Chrysotile	
B	29	B20	CD	79	79	F	1.1	0.06	18			Chrysotile	TAS_AHRA
B	29	B20	CD	80	80	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	30	B10	CD	81		MD1-0	1.3	0.7	1.9			Chrysotile	TAS_AHRA
B	30	B10	CD		81	MF	0.8	0.06	13			Chrysotile	
B	30	B10	CD	82	82	F	1	0.08	12			Chrysotile	TAS_AHRA
B	30	B10	CD	83	83	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	31	C10	CD	84	84	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	31	C10	CD	85	85	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	31	C10	CD	86	86	F	0.9	0.08	11			Chrysotile	TAS_AHRA
B	31	C10	AQ	87	87	B	4.8	1.3	3.7			Mg, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-3CH-100604 *Lab/Cor Sample No.:* B4771 S47 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	C30	CD	88		MD1-0	5.5	0.7	7.9			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	32	C30	CD		88	MF	4.8	0.07	69			Chrysotile	
B	32	C30	CD	89	89	F	1.6	0.08	20			Chrysotile	TAS_AHRA
B	33	C40	CD	90	90	F	0.5	0.07	7.1			Chrysotile	TAS_AHRA
B	33	C40	CD	91	91	F	0.7	0.07	10			Chrysotile	TAS_AHRA
B	33	C40	CD	92		MD1-0	2.3	0.7	3.3			Chrysotile	TAS_AHRA
B	33	C40	CD		92	MF	1.2	0.07	17			Chrysotile	
B	33	C40	CD	93	93	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	33	C40	CD	94	94	F	1.4	0.06	23			Chrysotile	TAS_AHRA
B	34	C22	AQ	95	95	F	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	34	C22	CD	96	96	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	35	C2	CD	97	97	F	0.7	0.09	7.8			Chrysotile	TAS_AHRA
B	36	B12	CD	98	98	F	1.2	0.07	17			Chrysotile	TAS_AHRA
B	37	B22	CD	99		MD1-0	23	13	1.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	37	B22	CD		99	MF	1.5	0.1	15			Chrysotile	
B	37	B22	CD	100		MD1-0	13	6	2.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	37	B22	CD		100	MF	0.6	0.06	10			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44		NSD									
A	2	B24	AQ	1	1	F	7.5	2	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	B4	CDQ	2	2	F	1.8	0.1	18	226	15922	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	C14	CD	3	3	F	4.2	0.1	42			Mg, Si Chrysotile	TAS_AHRA
A	5	C34	CD	4	4	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	6	C43	CD	5	5	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	6	C43	CD	6		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
A	6	C43	CD		6	MF	0.8	0.11	7.3			Chrysotile	
A	7	C23	CD	7	7	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	7	C23	CD	8	8	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	8	C3	CD	9	9	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA
A	8	C3	CD	10	10	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	8	C3	CD	11	11	F	2.2	0.1	22			Chrysotile	TAS_AHRA
A	8	C3	CD	12	12	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	9	B13	CD	13	13	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	B33	CD	14		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
A	10	B33	CD		14	MF	0.8	0.1	8.0			Chrysotile	
A	11	B42	CD	15	15	F	0.6	0.05	12			Chrysotile	TAS_AHRA
A	12	B22	CD	16	16	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	13	B2		NSD									
A	14	C12	CD	17	17	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	14	C12	CD	18	18	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	14	C12	CD	19	19	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	14	C12	CD	20	20	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
A	15	C32		NSD									
A	16	C41	CD	21	21	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	17	C21	CD	22	22	F	4.6	0.1	46			Chrysotile	TAS_AHRA
A	18	C1	CD	23	23	F	1.8	0.12	15			Chrysotile	TAS_AHRA
A	19	B11	CD	24	24	F	1.8	0.11	16			Chrysotile	TAS_AHRA
A	20	B31		NSD									
A	21	A41	CD	25	25	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	22	A21	CD	26	26	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	22	A21	CD	27	27	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	22	A21	CD	28	28	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	23	A1		NSD									
A	24	D11	CD	29	29	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
A	25	D31	CD	30	30	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	25	D31	CD	31	31	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	26	D42	CD	32	32	F	1.2	0.12	10			Chrysotile	TAS_AHRA
A	26	D42	CD	33	33	F	4.1	0.12	34			Chrysotile	TAS_AHRA
A	26	D42	CD	34	34	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	26	D42	CD	35	35	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	27	D22	CD	36	36	B	1.65	0.15	11			Chrysotile	TAS_AHRA
A	28	D2	AQ	37	37	F	6.5	1	6.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	A22		NSD									
A	30	A32	CD	38	38	F	1	0.1	10			Chrysotile	TAS_AHRA
B	31	A34	AZQ	39	39	F	4.5	1.2	3.7	227	15923	Mg, Si, Ca, Fe Tremolite Zone Axis [5 1 6] - KM	TAS_AHRA
B	31	A34	CD	40	40	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	32	A14	CD	41	41	F	3.2	0.1	32			Chrysotile	TAS_AHRA
B	33	D4	CD	42	42	B	1.6	0.15	11			Chrysotile	TAS_AHRA
B	33	D4	CD	43	43	B	4	0.2	20			Chrysotile	TAS_AHRA
B	34	D24	CD	44	44	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	34	D24	CD	45	45	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	35	D33	CD	46	46	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	35	D33	AQ	47		MD1-0	3.8	1	3.8			Actinolite	TAS_AHRA
B	35	D33	AQ		47	MF	2	0.22	9.1			Mg, Al, Si, Ca, Fe Actinolite	
B	36	D13	AQ	48		MD1-0	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	36	D13	AQ		48	MF	3.3	1	3.3			Mg, Al, Si, Ca, Fe Actinolite	
B	37	A3	CD	49		MD1-0	1.8	1.2	1.5			Chrysotile	TAS_AHRA
B	37	A3	CD		49	MB	1.8	0.22	8.2			Chrysotile	
B	38	A23		NSD									
B	39	A43		NSD									
B	40	A32	CD	50	50	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	41	A12	AQ	51	51	F	7.2	0.8	9.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	42	D2	AQ	52		MD1-0	2	1.8	1.1			Actinolite	TAS_AHRA
B	42	D2	AQ		52	MF	1.8	0.35	5.1			Mg, Al, Si, Ca, Fe Actinolite	
B	43	D22		NSD									
B	44	D42	CD	53	53	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	45	D31	CD	54	54	F	1.1	0.1	11			Chrysotile	TAS_AHRA
B	45	D31	CD	55	55	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	45	D31	CD	56	56	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	46	D11	CD	57	57	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	47	A1	CD	58	58	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	48	A21		NSD									
B	49	A41		NSD									
B	50	B41		NSD									
B	51	B21	CD	59	59	F	1	0.1	10			Chrysotile	TAS_AHRA
B	52	B1		NSD									
B	53	C11	CD	60	60	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	53	C11	CD	61	61	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	53	C11	CD	62	62	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	54	C31	CD	63	63	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	54	C31	CMQ	64	64	F	1.2	0.1	12			Mg, Si Chrysotile	TAS_AHRA
B	55	B32		NSD									
B	56	B12	AZQ	65		MD1-0	8.5	5	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	56	B12	AZQ		65	MF	3.8	0.3	13	1573	1207	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [5 1 6] - KM	
B	57	C2		NSD									
B	58	C22	CD	66	66	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	58	C22	AQ	67	67	F	8	1.5	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	C42	CD	68	68	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	60	C10	CD	69	69	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	61	A24	CMQ	70		MD1-0	4.5	3.5	1.3			Chrysotile	TAS_AHRA
C	61	A24	CMQ		70	MF	1.5	0.1	15			Chrysotile	
C	61	A24	AQ	71	71	F	2.8	0.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	62	A4	CD	72		MD1-0	2.5	0.5	5.0			Chrysotile	TAS_AHRA
C	62	A4	CD		72	MF	1.5	0.1	15			Chrysotile	
C	62	A4	CD	73	73	F	16	0.1	160			Chrysotile	AS>5, AFB>5, PSAS >10, PSAS TOT, PCAS >10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	62	A4	AQ	74	74	F	2	0.2	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	62	A4	AQ	75		MD1-1	6	6	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	62	A4	AQ		75	MF	5.8	0.4	14			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
C	62	A4	CD	76	76	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	63	D14	AQ	77	77	F	4.5	1	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	64	D34	CD	78	78	F	2	0.1	20			Chrysotile	TAS_AHRA
C	64	D34	CD	79	79	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	64	D34	CD	80	80	F	0.8	0.08	10			Chrysotile	TAS_AHRA
C	65	A2	CD	81	81	F	1.8	0.12	15			Chrysotile	TAS_AHRA
C	66	D12	CD	82	82	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	67	D32	CD	83	83	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	68	C1	CD	84		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
C	68	C1	CD		84	MF	1.5	0.1	15			Chrysotile	
C	68	C1	CD	85	85	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
C	69	C21	CD	86	86	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	69	C21	CD	87	87	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	69	C21	CD	88	88	F	1	0.1	10			Chrysotile	TAS_AHRA
C	70	C41		NSD									
C	71	B43		NSD									
C	72	B23	CD	89	89	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
C	72	B23	CD	90	90	F	2	0.12	17			Chrysotile	TAS_AHRA
C	73	C13	CD	91	91	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	73	C13	CD	92	92	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	74	C33	AQ	93		MD1-0	4	1	4.0			Actinolite	TAS_AHRA
C	74	C33	AQ		93	MF	3	0.3	10			Mg, Al, Si, Ca, Fe Actinolite	
C	75	C14	CD	94	94	F	1.8	0.15	12			Chrysotile	TAS_AHRA
C	76	C34		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	77	C44	CD	95	95	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	78	D20	CD	96	96	F	1	0.1	10			Chrysotile	TAS_AHRA
C	78	D20	AQ	97	97	F	5.8	1.5	3.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	79	D40	CD	98	98	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	79	D40	CD	99	99	B	3.2	0.2	16			Chrysotile	TAS_AHRA
C	79	D40	AQ	100	100	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	79	D40	AQ	101	101	F	8.5	0.8	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	79	D40	AQ	102		MD1-0	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	79	D40	AQ		102	MF	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	CD	1		MD2-0	2.5	1	2.5			Chrysotile	TAS_AHRA
A	1	B44	CD		1	MF	1	0.1	10			Chrysotile	
A	1	B44	CD		2	MF	1	0.1	10			Chrysotile	
A	1	B44	CD	2	3	F	1	0.1	10			Chrysotile	TAS_AHRA
A	1	B44	CD	3	4	F	1	0.1	10			Chrysotile	TAS_AHRA
A	2	B34	CD	4	5	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	2	B34	AQ	5		MD1-0	5	1.5	3.3			Actinolite	TAS_AHRA
A	2	B34	AQ		6	MF	1.5	0.3	5.0			Mg, Si, Ca, Fe Actinolite	
A	3	B24		NSD									
A	4	B14	CDQ	6	7	F	1.2	0.1	12	230	15926	Mg,Si Chrysotile Verified - JH	TAS_AHRA
A	4	B14	CD	7	8	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	5	B4		NSD									
A	6	C4	CD	8	9	F	1	0.1	10			Chrysotile	TAS_AHRA
A	6	C4	CD	9	10	F	1	0.1	10			Chrysotile	TAS_AHRA
A	6	C4	CD	10	11	F	1	0.1	10			Chrysotile	TAS_AHRA
A	7	C14		NSD									
A	8	C24		NSD									
A	9	B42		NSD									
A	10	B32	CD	11		MD1-0	2.5	2.5	1.0			Chrysotile	TAS_AHRA
A	10	B32	CD		12	MF	1	0.1	10			Chrysotile	
A	11	B22		NSD									
A	12	B12		NSD									
A	13	B2	CD	12	13	F	1	0.1	10			Chrysotile	TAS_AHRA
A	14	C2		NSD									
A	15	C12		NSD									
A	16	C22		NSD									
A	17	C32		NSD									
A	18	C42	AQ	13		MD1-0	7.5	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	18	C42	AQ		14	MF	2.75	0.75	3.7			Mg, Si, Ca, Fe Actinolite	
A	19	A41		NSD									
A	20	A31		NSD									
A	21	A21		NSD									
A	22	A11	CD	14	15	F	1.5	0.1	15			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	23	A1		NSD									
A	24	D1	CD	15	16	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	25	D11		NSD									
A	26	D21		NSD									
A	27	D31	CD	16	17	F	1	0.1	10			Chrysotile	TAS_AHRA
B	28	B41		NSD									
B	29	B31	CD	17	18	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
B	30	B21		NSD									
B	31	B11		NSD									
B	32	B1		NSD									
B	33	C1		NSD									
B	34	C11		NSD									
B	35	C21	CD	18	19	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	36	A41	CD	19	20	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	37	A31		NSD									
B	38	A21		NSD									
B	39	A11	CD	20	21	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	40	A1		NSD									
B	41	D1		NSD									
B	42	D11		NSD									
B	43	D21		NSD									
B	44	D31		NSD									
B	45	D41		NSD									
B	46	C34		NSD									
B	47	C24		NSD									
B	48	C14		NSD									
B	49	C4		NSD									
B	50	B4	AQ	21		MD1-0	3.7	3	1.2			Actinolite	TAS_AHRA
B	50	B4	AQ		22	MF	2.25	0.4	5.6			Mg, Si, Ca, Fe Actinolite	
B	50	B4	AQ	22		MD1-0	1.9	0.55	3.5			Actinolite	TAS_AHRA
B	50	B4	AQ		23	MF	1.9	0.2	9.5			Mg, Si, Ca, Fe Actinolite	
B	51	B14	CD	23	24	F	1.7	0.1	17			Chrysotile	TAS_AHRA
B	51	B14	CD	24	25	F	1	0.05	20			Chrysotile	TAS_AHRA
B	51	B14	CD	25	26	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	52	B24		NSD									
B	53	D43		NSD									
B	54	D33	AQ	26	27	F	0.95	0.1	9.5			Mg, Si, K, Ca, Fe Actinolite Potassian	TAS_AHRA
B	55	D23	CD	27	28	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	55	D23	CD	28	29	F	1.15	0.15	7.7			Chrysotile	TAS_AHRA
B	56	D13		NSD									
B	57	D3	CD	29	30	F	0.7	0.15	4.7			Chrysotile	TAS_AHRA
B	57	D3	CD	30	31	F	1	0.1	10			Chrysotile	TAS_AHRA
B	58	A3	CD	31	32	F	1.25	0.15	8.3			Chrysotile	TAS_AHRA
B	59	A13	AQ	32		MD1-0	6.5	4.5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	A13	AQ		33	MF	2.25	0.45	5.0			Mg, Si, Ca, Fe Actinolite	
B	59	A13	CD	33	34	F	1.05	0.15	7.0			Chrysotile	TAS_AHRA
B	60	A23	CD	34	35	F	1.8	0.2	9.0			Chrysotile	TAS_AHRA
C	61	C44	CDQ	35	36	F	1.7	0.15	11			Mg, Si, Fe Chrysotile	TAS_AHRA
C	62	C42	AZQ	36		MD1-0	5.5	4.5	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	62	C42	AZQ		37	MF	3.8	0.65	5.8	237	15939	Mg, Si, Ca, Fe Actinolite Zone Axis [3 1 2] - JH	
C	63	C40		NSD									
C	64	D41		NSD									
C	65	D43		NSD									
C	66	D34	AQ	37		MD1-1	10.5	9.75	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	66	D34	AQ		38	MF	9.5	2.5	3.8			MG, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	67	D32	CD	38	39	F	1.25	0.2	6.2			Chrysotile	TAS_AHRA
C	67	D32	AQ	39		MD1-1	12	10.5	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	67	D32	AQ		40	MF	12	1.05	11			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	68	D30	AQ	40	41	F	2.6	0.25	10			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	C31	CD	41	42	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
C	69	C31	CD	42	43	F	0.55	0.1	5.5			Chrysotile	TAS_AHRA
C	70	C33	AQ	43	44	F	4.25	0.6	7.1			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	70	C33	CD	44	45	F	1.25	0.1	12			Chrysotile	TAS_AHRA
C	71	C24	CD	45	46	F	1.8	0.15	12			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	72	C22	AQ	46		MD1-0	9	7.5	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	C22	AQ		47	MF	3	0.55	5.5			Mg, Al, Si, K, Ca, Fe Actinolite Potassian	
C	73	C20	CD	47		MD1-0	9.5	6.5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	73	C20	CD		48	MF	2.2	0.1	22			Chrysotile	
C	74	D21	AQ	48	49	F	1.95	0.4	4.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	75	D23		NSD									
C	76	D14	CD	49	50	F	3.5	0.1	35			Chrysotile	TAS_AHRA
C	77	D12	CD	50	51	F	0.75	0.15	5.0			Chrysotile	TAS_AHRA
C	78	D10	CD	51	52	F	1.6	0.1	16			Chrysotile	TAS_AHRA
C	79	C11	CD	52	53	F	0.95	0.1	9.5			Chrysotile	TAS_AHRA
C	80	C13		NSD									
C	81	C4	CD	53	54	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	81	C4	CD	54	55	F	0.55	0.15	3.7			Chrysotile	TAS_AHRA
C	82	C2		NSD									
C	83	D1		NSD									
C	84	D3		NSD									
C	85	A4		NSD									
C	86	A2	CD	55	56	F	0.8	0.2	4.0			Chrysotile	TAS_AHRA
C	86	A2	CD	56	57	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	87	B1		NSD									
C	88	B3	AQ	57		MD1-0	3.5	1.5	2.3			Actinolite	TAS_AHRA
C	88	B3	AQ		58	MF	2.5	0.55	4.5			Mg, Si, Ca, Fe Actinolite	
C	89	B14	CD	58	59	F	0.85	0.1	8.5			Chrysotile	TAS_AHRA
C	90	B10	CD	59	60	F	1.15	0.1	12			Chrysotile	TAS_AHRA
D	91	C44	CD	60	61	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
D	92	C43		NSD									
D	93	C42	CD	61	62	F	1.2	0.1	12			Chrysotile	TAS_AHRA
D	94	C41	CD	62		MD1-0	1	0.7	1.4			Chrysotile	TAS_AHRA
D	94	C41	CD		63	MF	0.75	0.1	7.5			Chrysotile	
D	95	C40		NSD									
D	96	D40	AQ	63	64	F	0.75	0.1	7.5			Actinolite	TAS_AHRA
D	97	D41	CD	64	65	F	4.2	0.15	28			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	98	D42		NSD									
D	99	D43	AQ	65		MD1-1	15	9.5	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	99	D43	AQ		66	MF	5.05	0.85	5.9			Mg, Si, Ca, Fe Actinolite Ferri	AFB>5, PCMEF-US
D	99	D43	AQ	66		MD1-0	2.7	2	1.4			Actinolite	TAS_AHRA
D	99	D43	AQ		67	MF	2	0.2	10			Mg, Si, Ca, Fe Actinolite	
D	99	D43	CD	67	68	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
D	100	D44		NSD									
D	101	D33		NSD									
D	102	D31		NSD									
D	103	C30		NSD									
D	104	C32	CD	68		MD1-1	15	8	1.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	104	C32	CD		69	MF	7	0.15	47			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
D	105	C34	CD	69	70	B	2.2	0.3	7.3			Chrysotile	TAS_AHRA
D	106	C24	AQ	70		MD1-1	8	5.5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	106	C24	AQ		71	MF	5.05	0.55	9.2			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	106	C24	CD	71		MD1-0	3	1.2	2.5			Chrysotile	TAS_AHRA
D	106	C24	CD		72	MF	1.5	0.1	15			Chrysotile	
D	107	C23		NSD									
D	108	C22	AQ	72	73	F	9.5	2	4.8			Mg, Al, Si, Ca, Fe Actinolite , Ferrian	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	108	C22	AQ	73	74	F	8.25	1.6	5.2			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	109	A42	CD	74	75	F	1	0.1	10			Chrysotile	TAS_AHRA
E	110	A32	AQ	75	76	F	11	1.2	9.2			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	111	A22		NSD									
E	112	A12	CD	76	77	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
E	112	A12	CD	77	78	F	1	0.1	10			Chrysotile	TAS_AHRA
E	112	A12	CD	78		MD1-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	112	A12	CD		79	MF	1	0.1	10			Chrysotile	
E	113	A2	CD	79	80	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	114	D2	AQ	80		MD1-1	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	114	D2	AQ		81	MF	5.2	0.5	10			Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
E	115	D12	CD	81	82	F	1	0.1	10			Chrysotile	TAS_AHRA
E	115	D12	CD	82		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	115	D12	CD		83	MF	0.5	0.1	5.0			Chrysotile	
E	115	D12	CD	83	84	F	2	0.1	20			Chrysotile	TAS_AHRA
E	115	D12	CD	84	85	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	116	D22	AQ	85	86	F	6	1.5	4.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	117	D32		NSD									
E	118	D42	CD	86	87	F	0.5					Chrysotile	TAS_AHRA
E	119	A40	CD	87	88	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
E	119	A40	CD	88	89	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
E	120	A30		NSD									
E	121	A20	CD	89	90	F	1.5	0.1	15			Chrysotile	TAS_AHRA
E	122	A10		NSD									
E	123	D10		NSD									
E	124	D20	CD	90	91	F	1.5	0.1	15			Chrysotile	TAS_AHRA
E	125	D30		NSD									
E	126	D40		NSD									
E	127	B41	CD	91	92	F	1	0.1	10			Chrysotile	TAS_AHRA
E	128	B31	CD	92	93	F	1.8	0.1	18			Chrysotile	TAS_AHRA
E	128	B31	AQ	93		MD1-0	12.5	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	128	B31	AQ		94	MF	2.5	0.75	3.3			Mg, Si, Ca, Fe Actinolite	
E	128	B31	CD	94	95	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
E	128	B31	CD	95	96	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	129	B21		NSD									
E	130	B11	CD	96		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
E	130	B11	CD		97	MF	1.5	0.1	15			Chrysotile	
E	130	B11	CD	97	98	F	2.5	0.1	25			Chrysotile	TAS_AHRA
E	131	B1	CD	98	99	F	2.5	0.1	25			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	132	C1	CD	99		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
E	132	C1	CD		100	MF	1	0.1	10			Chrysotile	
E	133	C11	CD	100	101	F	1.5	0.1	15			Chrysotile	TAS_AHRA
E	134	C21		NSD									
E	135	C10		NSD									
E	136	C20		NSD									
E	137	D10		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B43	AQ	1		MD1-1	20	15	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	1	B43	AQ		1	MF	20	4	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5
A	2	B33		NSD									
A	3	B23		NSD									
A	4	B13		NSD									
A	5	B3	AQ	2		MD1-1	10	7.5	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	B3	AQ		2	MF	7.5	0.9	8.3			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	6	C3		NSD									
A	7	C13		NSD									
A	8	C23		NSD									
A	9	C33		NSD									
A	10	C43	AQ	3		MD1-0	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	10	C43	AQ		3	MF	1.8	0.6	3.0			Mg, Al, Si, Ca, Fe Actinolite	
A	11	B42		NSD									
A	12	B32	AQ	4		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
A	12	B32	AZQ		4	MF	1.8	0.6	3.0	259	15962	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [5 1 4] - DW	
A	12	B32	CDQ	5		MD1-0	35	30	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	12	B32	CDQ		5	MF	2.5	0.1	25	258	15961	Mg, Si Chrysotile Verified - DW	
A	12	B32	CD	6		MD2-0	5	5	1.0			Chrysotile	TAS_AHRA
A	12	B32	CD		6	MF	1.5	0.1	15			Chrysotile	
A	12	B32	CD		7	MF	1	0.1	10			Chrysotile	
A	13	B22		NSD									
A	14	B12		NSD									
A	15	B2		NSD									
A	16	C2	CD	7	8	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	17	C12	CD	8	9	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	17	C12	CD	9	10	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
A	18	C22	AZQ	10	11	F	1	0.2	5.0	260	15963	Mg, Si,Ca,Fe Tremolite Zone Axis [5 1 4] - DW	TAS_AHRA
A	19	C32	CD	11	12	F	1	0.1	10			Chrysotile	TAS_AHRA
A	20	C42		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	21	B40	AQ	12		MD1-1	15	5	3.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	21	B40	AQ		13	MF	15	2	7.5			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	22	B30	AQ	13		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	22	B30	AQ		14	MF	6	0.75	8.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	23	B20	AQ	14		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	23	B20	AQ		15	MF	9	1	9.0			Actinolite	AFB>5, PCMEF-US
A	24	B10		NSD									
A	25	C10	AQ	15		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	25	C10	AQ		16	MF	15	1.5	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	26	C20		NSD									
A	27	C30		NSD									
A	28	C40	CD	16		MD1-0	2.5	1.5	1.7			Chrysotile	TAS_AHRA
A	28	C40	CD		17	MF	2.5	0.1	25			Chrysotile	
A	29	A31		NSD									
A	30	A21	CD	17	18	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	31	A11	AQ	18		MD1-0	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	31	A11	AQ		19	MF	4.5	0.75	6.0			Mg, Si, Ca, Fe Actinolite	
A	32	A1	AQ	19		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	32	A1	AQ		20	MF	12	1.2	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	33	D1	CD	20		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
A	33	D1	CD		21	MF	0.75	0.1	7.5			Chrysotile	
A	33	D1	CD	21	22	F	3	0.1	30			Chrysotile	TAS_AHRA
A	34	D11	AQ	22		MD1-1	35	27	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	34	D11	AQ		23	MF	19	4	4.8			Mg, Si, Ca, Fe Actinolite	AFB>5
A	34	D11	AQ	23		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	34	D11	AQ		24	MF	8	2	4.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	35	D21	AQ	24		MD1-0	6	6	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	35	D21	AQ		25	MF	2	0.5	4.0			Mg, Si, Ca, Fe Actinolite	
A	36	D31		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	37	D41		NSD									
A	38	A42	AQ	25	26	F	12	0.8	15			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	38	A42	AQ	26		MD1-0	7.5	6	1.2			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	38	A42	AQ		27	MF	4	0.6	6.7			Mg, Si, Ca, Fe Tremolite	
A	39	A32	CD	27	28	F	1	0.1	10			Chrysotile	TAS_AHRA
A	40	A22		NSD									
A	41	A12	AQ	28		MD1-0	15	12	1.2			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	41	A12	AQ		29	MF	2.5	0.3	8.3			Mg, Si, Ca, Fe Tremolite	
A	42	A2		NSD									
A	43	D2		NSD									
A	44	D12		NSD									
A	45	D22		NSD									
A	46	D32		NSD									
A	47	D42	AQ	29		MD3-3	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	47	D42	AQ		30	MF	9	1.5	6.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	47	D42	AQ		31	MF	7.5	1.2	6.2			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	47	D42	AQ		32	MF	6.5	0.85	7.6			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	48	B44	CD	30		MD1-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	B44	CD		33	MF	4	0.1	40			Mg, Si, Ca, Fe Chrysotile	
B	48	B44	CD	31	34	F	1	0.1	10			Chrysotile	TAS_AHRA
B	49	B34		NSD									
B	50	B24		NSD									
B	51	B14		NSD									
B	52	B4		NSD									
B	53	C4		NSD									
B	54	C14		NSD									
B	55	C24	AQ	32		MD1-0	25	15	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	55	C24	AQ		35	MF	4	0.5	8.0			Mg, Si, Ca, Fe Actinolite	
B	56	C34		NSD									
B	57	C44	CD	33	36	F	4	0.1	40			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	58	B41		NSD									
B	59	B31	AQ	34		MD1-0	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	B31	AQ		37	MF	3	0.75	4.0			Mg, Si, Ca, Fe Actinolite	
B	60	B21	CD	35	38	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	61	B11	CD	36	39	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	61	B11	CD	37	40	F	1	0.1	10			Chrysotile	TAS_AHRA
B	62	B1		NSD									
B	63	C1	AQ	38	41	F	2	0.6	3.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	64	A40		NSD									
B	65	A30		NSD									
B	66	A20		NSD									
B	67	A10		NSD									
B	68	D10	CD	39		MD1-0	2	1.5	1.3			Chrysotile	TAS_AHRA
B	68	D10	CD		42	MF	1	0.1	10			Chrysotile	
B	69	D20		NSD									
B	70	D30		NSD									
B	71	D40		NSD									
B	72	A41		NSD									
B	73	A31		NSD									
B	74	A21		NSD									
B	75	A11		NSD									
B	76	A1	CD	40	43	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	77	D1		NSD									
B	78	D11	CD	41		MD1-0	12	10	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	78	D11	CD		44	MF	4	0.1	40			Chrysotile	
B	79	D21		NSD									
B	80	D31	AQ	42		MD1-1	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	80	D31	AQ		45	MF	6	1.2	5.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	81	D41	CD	43	46	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	82	A42		NSD									
B	83	A32	CD	44	47	B	3.5	1.5	2.3			Chrysotile	TAS_AHRA
B	84	A22		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	85	A12		NSD									
B	86	A2		NSD									
B	87	D2	CD	45	48	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	87	D2	CD	46		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
B	87	D2	CD		49	MF	1	0.1	10			Chrysotile	
B	88	D12		NSD									
B	89	D22	CD	47	50	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	90	D32		NSD									
B	91	D42	CD	48	51	F	1	0.1	10			Chrysotile	TAS_AHRA
B	91	D42	AQ	49		MD1-1	55	30	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	91	D42	AQ		52	MF	9	1.2	7.5			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	92	B44		NSD									
C	93	B34	CD	50	53	F	3	0.1	30			Chrysotile	TAS_AHRA
C	94	B24		NSD									
C	95	B14		NSD									
C	96	B42	AQ	51	54	B	18	10	1.8			Mg, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	97	B32		NSD									
C	98	B22		NSD									
C	99	B12		NSD									
C	100	B2		NSD									
C	101	C2		NSD									
C	102	C12		NSD									
C	103	C22		NSD									
C	104	C32		NSD									
C	105	C42		NSD									
C	106	B40		NSD									
C	107	B30	CD	52		MD1-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	107	B30	CD		55	MF	1.5	0.1	15			Chrysotile	
C	107	B30	CD	53	56	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	108	B20	AQ	54	57	F	2.75	0.5	5.5			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	109	B10		NSD									
C	110	C10		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	111	C20	AQ	55	58	F	11	1	11			Mg, Si, Ca, Fe Tremolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	112	C30	AQ	56		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	112	C30	AQ		59	MF	5.5	0.75	7.3			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	113	C40	AQ	57		MD1-1	15	15	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	113	C40	AQ		60	MF	7.5	2	3.8			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	113	C40	AQ	58		MD1-1	20	15	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	113	C40	AQ		61	MF	5.5	0.5	11			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
C	114	A41		NSD									
C	115	A31	AQ	59	62	F	2.5	0.5	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	115	A31	CD	60	63	F	1	0.1	10			Chrysotile	TAS_AHRA
C	115	A31	CD	61	64	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	116	A21	AQ	62		MD1-1	30	20	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	116	A21	AQ		65	MF	27	2	14			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	117	A11	AQ	63		MD1-1	23	20	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	117	A11	AQ		66	MF	12	2.5	4.8			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	118	A1		NSD									
C	119	D1		NSD									
C	120	D11		NSD									
C	121	D21	AQ	64		MD1-1	30	15	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	121	D21	AQ		67	MF	10	1.2	8.3			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	122	D31	AQ	65	68	F	12	1.2	10			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	123	D41		NSD									
C	124	A42	AQ	66	69	F	4.5	1.5	3.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	125	A32	AQ	67	70	F	6	1.2	5.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	126	A22		NSD									
C	127	A12	CD	68	71	F	1.2	0.1	12			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	127	A12	CD	69	72	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	128	A2		NSD									
C	129	D2	CD	70	73	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	129	D2	CD	71	74	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	129	D2	CD	72	75	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	130	D12		NSD									
C	131	D22		NSD									
C	132	D32	AQ	73		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	132	D32	AQ		76	MF	5.5	1.8	3.1			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	133	D42	AQ	74		MD1-1	10	7.5	1.3			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	133	D42	AQ		77	MF	6	0.85	7.1			Mg, Si, Ca, Fe Tremolite	AFB>5, PCMEF-US
C	133	D42	CD	75	78	F	1.5	0.1	15			Chrysotile	TAS_AHRA
D	134	B41		NSD									
D	135	B31		NSD									
D	136	B21		NSD									
D	137	B11		NSD									
D	138	B1		NSD									
D	139	C1		NSD									
D	140	C11		NSD									
D	141	C21		NSD									
D	142	C31		NSD									
D	143	C41		NSD									
D	144	A40		NSD									
D	145	A30		NSD									
D	146	A20	AQ	76		MD2-1	20	15	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	146	A20	AQ		79	MF	12	2.5	4.8			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	146	A20	AQ		80	MF	4.5	0.75	6.0			Mg, Si, Ca, Fe Actinolite	
D	147	A10	AQ	77	81	F	5.2	0.5	10			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	147	A10	AQ	78		MD1-0	25	20	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	147	A10	AQ		82	MF	1.5	0.3	5.0			Mg, Si, Ca, Fe Actinolite	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A24	AQ	1	1	F	2.8	0.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	A14		NSD									
A	3	D4	CDQ	2		MD1-0	15	6	2.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	3	D4	CDQ		2	MF	0.5	0.08	6.2	1563	1198	Mg, Si Chrysotile Verified - JH	
A	3	D4	AQ	3	3	B	6	1.8	3.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	D4	CDQ	4	4	B	13	2	6.5			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	4	D24		NSD									
A	5	D44	AQ	5	5	F	2.5	0.2	12			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	D44	CD	6	6	F	1	0.08	12			Chrysotile	TAS_AHRA
A	6	D42	CD	7		MD1-0	6	4	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D42	CD		7	MF	0.9	0.06	15			Chrysotile	
A	7	D22	AZQ	8	8	F	5.5	0.5	11	1564	1199	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 1 0] - JH	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	7	D22	AQ	9	9	B	3	1	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	7	D22	CD	10	10	F	0.9	0.07	13			Chrysotile	TAS_AHRA
A	7	D22	CD	11	11	F	0.5	0.07	7.1			Chrysotile	TAS_AHRA
A	8	D2	CD	12	12	F	1	0.15	6.7			Chrysotile	TAS_AHRA
A	8	D2	AQ	13	13	F	4.5	0.6	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	A12		NSD									
A	10	A32	AQ	14	14	B	2.6	0.7	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	A32	CD	15	15	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	10	A32	AQ	16	16	F	10	2.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	A40	AQ	17		MD1-0		4				Actinolite	TAS_AHRA
A	11	A40	AQ		17	MF	3	0.55	5.5			Mg, Al, Si, Ca, Fe Actinolite	
A	12	A20	CD	18	18	F	1.1	0.06	18			Chrysotile	TAS_AHRA
A	12	A20	CD	19	19	F	4.8	0.07	69			Chrysotile	TAS_AHRA
A	13	A10		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	14	D10	CD	20		MD1-0	6	5	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	14	D10	CD		20	MF	3.5	0.07	50			Chrysotile	
A	15	D30	CD	21	21	F	1.2	0.06	20			Chrysotile	TAS_AHRA
A	15	D30	CD	22	22	F	2.4	0.1	24			Chrysotile	TAS_AHRA
A	15	D30	CD	23	23	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	15	D30	CD	24	24	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	16	D40	CD	25	25	F	0.9	0.08	11			Chrysotile	TAS_AHRA
A	17	C41	CD	26	26	F	3	0.07	43			Chrysotile	TAS_AHRA
A	18	C21	AQ	27	27	F	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	18	C21	CD	28	28	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
A	19	C1	CD	29		MD1-0	8	5.5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	C1	CD		29	MB	2.5	0.7	3.6			Chrysotile	
A	19	C1	CD	30	30	F	1.1	0.08	14			Chrysotile	TAS_AHRA
A	19	C1	CD	31	31	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	19	C1	AQ	32	32	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	20	B11	CD	33	33	F	1.5	0.07	21			Chrysotile	TAS_AHRA
A	20	B11	AQ	34	34	F	8	1	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	20	B11	CD	35	35	F	1	0.07	14			Chrysotile	TAS_AHRA
A	20	B11	AQ	36	36	F	4	1	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	21	B31	CD	37		MD1-0	2.7	2	1.4			Chrysotile	TAS_AHRA
A	21	B31	CD		37	MF	0.5	0.06	8.3			Chrysotile	
A	22	B41	CD	38	38	F	1.7	0.07	24			Chrysotile	TAS_AHRA
A	22	B41	CD	39	39	F	0.9	0.07	13			Chrysotile	TAS_AHRA
A	23	B43		NSD									
A	24	B23	AQ	40		MD1-0	7.5	3	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	24	B23	AQ		40	MF	4.9	0.7	7.0			Mg, Al, Si, Ca, Fe Actinolite	
A	24	B23	CD	41	41	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	24	B23	CD	42	42	F	1	0.06	17			Chrysotile	TAS_AHRA
A	25	B3		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	26	C3	AQ	43	43	B	13	2.7	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	26	C3	AQ	44	44	F	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	27	C23	AQ	45	45	B	11	2.4	4.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	27	C23	AQ	46	46	B	19	3	6.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	28	C43	AQ	47	47	F	7.5	0.5	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	C44	CD	48	48	F	1	0.08	12			Chrysotile	TAS_AHRA
A	29	C44	AQ	49	49	F	6.5	0.5	13			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	C44	CD	50	50	F	1	0.08	12			Chrysotile	TAS_AHRA
A	29	C44	CD	51	51	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	30	C24		NSD									
B	31	B24	CD	52		MD1-0	3.5	1	3.5			Chrysotile	TAS_AHRA
B	31	B24	CD		52	MF	2.5	0.07	36			Chrysotile	
B	31	B24	AQ	53	53	F	9.8	2.7	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	B24	AQ	54	54	F	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	B24	CD	55	55	F	1	0.07	14			Chrysotile	TAS_AHRA
B	31	B24	CD	56	56	F	1	0.06	17			Chrysotile	TAS_AHRA
B	32	B4	AQ	57	57	B	1.5	0.6	2.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	32	B4	CD	58	58	F	1.3	0.07	19			Chrysotile	TAS_AHRA
B	33	C14		NSD									
B	34	C42	AQ	59	59	F	12	2.2	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	34	C42	CD	60	60	B	2.5	0.2	12			Chrysotile	TAS_AHRA
B	34	C42	CD	61	61	F	0.5	0.07	7.1			Chrysotile	TAS_AHRA
B	35	C22	CD	62		MD1-0	11	4.5	2.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	35	C22	CD		62	MB	1.5	0.1	15			Chrysotile	
B	35	C22	CD	63		MD1-0	4.3	2.6	1.7			Chrysotile	TAS_AHRA
B	35	C22	CD		63	MF	2.3	0.06	38			Chrysotile	
B	35	C22	AQ	64	64	B	24	3	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	C2	CD	65	65	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	36	C2	AQ	66	66	B	9.9	1.5	6.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	36	C2	AQ	67	67	B	12.5	3	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	37	B2		NSD									
B	38	B22	AQ	68	68	B	17	3.5	4.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	39	B42		NSD									
B	40	B40	CD	69	69	B	2.5	0.15	17			Chrysotile	TAS_AHRA
B	41	B20	CD	70	70	F	1	0.08	12			Chrysotile	TAS_AHRA
B	42	C10	CD	71		MD1-0	1.3	1	1.3			Chrysotile	TAS_AHRA
B	42	C10	CD		71	MF	0.6	0.15	4.0			Chrysotile	
B	43	C30	AQ	72	72	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	43	C30	AQ	73	73	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	44	C40	AQ	74	74	F	12	3.5	3.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	C40	CD	75	75	F	2.4	0.07	34			Chrysotile	TAS_AHRA
B	44	C40	CD	76	76	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	44	C40	CD	77	77	F	0.55	0.07	7.9			Chrysotile	TAS_AHRA
B	45	D41	CD	78		MD1-0	7	6	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	45	D41	CD		78	MF	1.2	0.08	15			Chrysotile	
B	45	D41	CD	79	79	F	1.5	0.2	7.5			Chrysotile	TAS_AHRA
B	45	D41	CD	80	80	F	1.1	0.06	18			Chrysotile	TAS_AHRA
B	45	D41	AQ	81	81	F	5.5	1.2	4.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	D21	CD	82		MD1-0	6	2.5	2.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	46	D21	CD		82	MB	4	0.3	13			Mg, Al, Si, Ca, Fe Chrysotile	
B	47	D1	AQ	83	83	F	11	3	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	48	A11		NSD									
B	49	A31	CD	84	84	F	0.7	0.07	10			Chrysotile	TAS_AHRA
B	50	A41	AQ	85	85	F	3	0.7	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	50	A41	CD	86		MD1-0	2.5	1.5	1.7			Chrysotile	TAS_AHRA
B	50	A41	CD		86	MF	2	0.07	29			Chrysotile	
B	51	A43	AQ	87	87	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	52	A23	CD	88	88	F	1.2	0.07	17			Chrysotile	TAS_AHRA
B	52	A23	CD	89	89	F	2.5	0.07	36			Chrysotile	TAS_AHRA
B	53	A3		NSD									
B	54	D13	AQ	90	90	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	54	D13	AQ	91	91	F	8	2.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	D33		NSD									
B	56	D43	AQ	92	92	F	8	2.2	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	56	D43	CD	93	93	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	56	D43	CD	94	94	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	56	D43	AQ	95	95	F	15	2.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	57	D34	CD	96	96	F	0.8	0.2	4.0			Chrysotile	TAS_AHRA
B	57	D34	CD	97	97	F	0.6	0.15	4.0			Chrysotile	TAS_AHRA
B	57	D34	AQ	98	98	F	17	2.4	7.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	57	D34	CD	99	99	F	1	0.15	6.7			Chrysotile	TAS_AHRA
B	57	D34	AQ	100	100	B	7.5	1.8	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A34	AZQ	1	1	F	8	0.6	13	1565	1200	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 0 2] - JH	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	A34	AQ	2	2	F	6	0.6	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	A34	AQ	3	3	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	A14		NSD									
A	3	D4	CDQ	4	4	F	0.9	0.08	11	1566	1201	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	D24	AQ	5	5	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	4	D24	AQ	6	6	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	4	D24	CDQ	7	7	F	1.5	0.08	19			Mg, Si Chrysotile	TAS_AHRA
A	5	D44	CDQ	8		MD1-0	12	8	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	5	D44	CDQ		8	MF	2.5	0.1	25			Mg, Si Chrysotile	
A	5	D44	AQ	9	9	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	D42	AQ	10		MD1-0	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D42	AQ		10	MF	3.2	0.45	7.1			Mg, Al, Si, Ca, Fe Actinolite	
A	6	D42	CDQ	11	11	B	2	0.2	10			Mg, Si Chrysotile	TAS_AHRA
A	7	D22		NSD									
A	8	D2	CDQ	12	12	F	2.6	0.1	26			Mg, Si Chrysotile	TAS_AHRA
A	8	D2	CDQ	13	13	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	8	D2	AQ	14	14	F	7.5	1	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	9	A12		NSD									
A	10	A32	CD	15	15	F	0.9	0.06	15			Chrysotile	TAS_AHRA
A	10	A32	CD	16	16	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	10	A32	CD	17	17	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	11	A42	CD	18	18	B	7.6	0.25	30			Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	12	A40	CD	19	19	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	12	A40	CD	20	20	B	1.2	0.25	4.8			Chrysotile	TAS_AHRA
A	12	A40	CD	21	21	F	1.5	0.08	19			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	A20	CD	22	22	B	4	0.2	20			Chrysotile	TAS_AHRA
A	14	A10	AQ	23	23	F	4.5	0.4	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	14	A10	CD	24		MD1-0	2.7	2.7	1.0			Chrysotile	TAS_AHRA
A	14	A10	CD		24	MF	1.1	0.05	22			Chrysotile	
A	15	D10	AQ	25	25	F	7.5	2	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	15	D10	CD	26	26	F	1	0.08	12			Chrysotile	TAS_AHRA
A	15	D10	CD	27	27	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	16	D30	CD	28	28	F	1	0.06	17			Chrysotile	TAS_AHRA
A	17	D40		NSD									
A	18	C21		NSD									
A	19	C1	CD	29	29	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
A	19	C1	CD	30	30	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	19	C1	CD	31	31	F	1.5	0.06	25			Chrysotile	TAS_AHRA
A	19	C1	CD	32	32	F	2.2	0.2	11			Chrysotile	TAS_AHRA
A	19	C1	CD	33	33	F	1.2	0.06	20			Chrysotile	TAS_AHRA
A	20	B11	AQ	34	34	F	5.2	0.3	17			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	21	B31	CD	35	35	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	21	B31	CD	36	36	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	21	B31	CD	37	37	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	22	B41	CD	38	38	F	4	0.08	50			Chrysotile	TAS_AHRA
A	22	B41	CD	39	39	F	1	0.07	14			Chrysotile	TAS_AHRA
A	22	B41	CD	40	40	F	1	0.15	6.7			Chrysotile	TAS_AHRA
A	22	B41	AQ	41	41	F	3.9	0.6	6.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	23	B24	CD	42		MD1-0	2.8	1.5	1.9			Chrysotile	TAS_AHRA
B	23	B24	CD		42	MF	1.5	0.07	21			Chrysotile	
B	23	B24	AQ	43	43	F	2.6	0.26	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	B4		NSD									
B	25	C14		NSD									
B	26	C34	AQ	44	44	F	8	1.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101.A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	26	C34	AQ	45	45	F	3.5	1	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	27	C44	AQ	46	46	B	3.5	1.1	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	28	C42	AQ	47	47	B	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	28	C42	AQ	48	48	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	28	C42	CD	49	49	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	29	C22	CD	50	50	F	0.7	0.07	10			Chrysotile	TAS_AHRA
B	30	C2	AQ	51	51	B	10.5	2.3	4.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	31	B12	CD	52	52	B	4	0.2	20			Chrysotile	TAS_AHRA
B	31	B12	CD	53	53	F	1	0.07	14			Chrysotile	TAS_AHRA
B	31	B12	CD	54		MD1-0	6	4	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	B12	CD		54	MF	2.4	0.2	12			Mg, Al, Si, Ca, Fe Chrysotile	
B	32	B32	CD	55	55	F	0.6	0.06	10			Chrysotile	TAS_AHRA
B	32	B32	CD	56	56	F	0.8	0.2	4.0			Chrysotile	TAS_AHRA
B	33	A30	AQ	57	57	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	A30	AQ	58	58	F	3	0.9	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A30	CD	59	59	F	1.8	0.07	26			Chrysotile	TAS_AHRA
B	34	A10	AQ	60	60	F	4.9	0.4	12			Actinolite	TAS_AHRA
B	35	D10	AQ	61	61	F	7.3	2	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	D10	CD	62	62	F	1	0.07	14			Chrysotile	TAS_AHRA
B	36	D30	AQ	63		MD1-0	25	15	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	D30	AQ		63	MB	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	
B	36	D30	CD	64	64	F	1.1	0.07	16			Chrysotile	TAS_AHRA
B	37	D40	AQ	65	65	F	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	38	D42	CD	66	66	F	0.7	0.07	10			Chrysotile	TAS_AHRA
B	38	D42	AQ	67		MD1-0	9	5	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	D42	AQ		67	MF	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	
B	39	D22	CD	68	68	F	1	0.1	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	39	D22	AQ	69	69	F	13.5	1.2	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	40	D2	AQ	70	70	F	6.5	0.7	9.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	40	D2	AQ	71		MD1-0	5.8	1.2	4.8			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	40	D2	AQ		71	MF	3	0.38	7.9			Mg, Al, Si, Ca, Fe Actinolite	
B	40	D2	CD	72	72	F	2	0.1	20			Chrysotile	TAS_AHRA
B	40	D2	CD	73	73	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	41	A12		NSD									
B	42	A32	CD	74	74	F	3.5	0.1	35			Chrysotile	TAS_AHRA
C	43	C44	CD	75	75	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	43	C44	CD	76		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
C	43	C44	CD		76	MF	1.1	0.1	11			Chrysotile	
C	44	C24	CMQ	77	77	F	1.8	0.12	15			Mg, Si Chrysotile	TAS_AHRA
C	44	C24	CD	78	78	F	1.8	0.12	15			Chrysotile	TAS_AHRA
C	45	C4	AQ	79	79	F	3.5	0.45	7.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	45	C4	AQ	80	80	F	6.8	1.5	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	45	C4	CD	81	81	B	3	0.5	6.0			Chrysotile	TAS_AHRA
C	45	C4	CD	82	82	F	0.8	0.08	10			Chrysotile	TAS_AHRA
C	46	B14	AQ	83	83	F	3.7	0.6	6.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	46	B14	AQ	84	84	F	3.5	0.7	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	47	B34	AQ	85	85	F	9	2	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	48	B42	CD	86		MD1-0	5.5	3.8	1.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	48	B42	CD		86	MF	1.5	0.1	15			Chrysotile	
C	48	B42	CD	87	87	F	3.5	0.12	29			Chrysotile	TAS_AHRA
C	49	B22	CD	88	88	F	1.8	0.1	18			Chrysotile	TAS_AHRA
C	49	B22	CD	89	89	B	4	0.2	20			Chrysotile	TAS_AHRA
C	50	B2	CD	90		MD1-0	5.2	0.8	6.5			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	50	B2	CD		90	MF	4.5	0.11	41			Chrysotile	
C	50	B2	CD	91	91	F	1	0.1	10			Chrysotile	TAS_AHRA
C	51	C12	CD	92		MD1-1	16	5	3.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	51	C12	CD		92	MB	16	0.35	46			Chrysotile	AFB>5, PCMEF-US, PSAS >10, PSAS TOT, PCAS >10, PCAS TOT
C	52	C32	CD	93		MD1-0	1.8	0.7	2.6			Chrysotile	TAS_AHRA
C	52	C32	CD		93	MF	0.8	0.1	8.0			Chrysotile	
C	53	C40	CDQ	94	94	B	3.5	0.35	10			Mg, Si Chrysotile	TAS_AHRA
C	54	C20	AQ	95	95	F	4.8	1	4.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	54	C20	CD	96		MD1-0	10	4	2.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	54	C20	CD		96	MB	4.2	0.4	10			Chrysotile	
C	54	C20	CD	97	97	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	54	C20	CD	98	98	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	55	B20	CD	99	99	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	56	B40	AQ	100	100	F	12	1.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	56	B40	CMQ	101	101	F	1.8	0.15	12			Mg, Si Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B24	CD	1	1	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	1	B24	CD	2	2	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	1	B24	CD	3	3	F	1	0.1	10			Chrysotile	TAS_AHRA
A	2	B4	CMQ	4		MD1-0	5.5	2	2.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	2	B4	CMQ		4	MF	4.5	0.1	45			Mg, Si Chrysotile	
A	2	B4	CD	5	5	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	2	B4	AQ	6	6	F	3.8	0.8	4.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	C43	CD	7	7	F	5.2	0.1	52			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	C43	AQ	8		MD1-0	7	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	C43	AQ		8	MF	4.2	0.2	21			Mg, Al, Si, Ca, Fe Actinolite	
A	3	C43	AQ	9		MD1-1	8	7	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	C43	AQ		9	MF	6.8	1.5	4.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	3	C43	AQ	10		MD1-0	8	6	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	C43	AQ		10	MF	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	
A	4	C23	AQ	11	11	F	4.2	1.2	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	4	C23	CDQ	12	12	F	0.7	0.1	7.0	1567	1202	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	C23	AZQ	13	13	F	6	0.35	17	1569	1203	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 -3] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	C23	CD	14		MD1-0	8.5	4	2.1			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	C23	CMQ		14	MF	4.5	0.12	38			Mg, Si Chrysotile	
A	5	C3	CD	15	15	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	6	B13	CDQ	16	16	B	3.1	0.2	15			Mg, Si Chrysotile	TAS_AHRA
A	6	B13	AQ	17	17	F	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	B13	CD	18		MD1-0	2.2	0.8	2.8			Chrysotile	TAS_AHRA
A	6	B13	CD		18	MF	0.7	0.1	7.0			Chrysotile	
A	6	B13	CD	19	19	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	6	B13	AQ	20	20	F	11	1	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	B13	CD	21	21	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	7	B21	CD	22	22	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	7	B21	CD	23	23	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	7	B21	CD	24	24	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	7	B21	CD	25	25	F	4	0.1	40			Chrysotile	TAS_AHRA
A	8	B1	CD	26		MD1-0	2.5	1.8	1.4			Chrysotile	TAS_AHRA
A	8	B1	CD		26	MF	0.6	0.1	6.0			Chrysotile	
A	8	B1	CD	27	27	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	8	B1	CD	28	28	F	1.8	0.11	16			Chrysotile	TAS_AHRA
A	9	C11	CD	29		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
A	9	C11	CD		29	MF	1.5	0.1	15			Chrysotile	
A	10	C31	CD	30	30	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	10	C31	CD	31		MD1-0	6.5	3	2.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	10	C31	CD		31	MF	1.8	0.1	18			Chrysotile	
A	10	C31	OZQ	32		MD1-0	3.1	1	3.1			Winchite	TOS_AHRA
A	10	C31	OZQ		32	MF	2	0.4	5.0	1570	1204	Na, Mg, Al, Si, Ca, Fe Winchite Zone Axis [9 1 -6] - KM	
A	11	A41	AQ	33	33	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	11	A41	CMQ	34	34	B	4.5	0.68	6.6			Mg, Si Chrysotile	TAS_AHRA
A	11	A41	CD	35	35	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	12	A21	AQ	36		MD1-0	1.7	0.6	2.8			Actinolite	TAS_AHRA
A	12	A21	AQ		36	MF	0.8	0.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	
A	12	A21	CD	37	37	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	12	A21	CD	38	38	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	12	A21	CD	39	39	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	12	A21	CD	40	40	F	1.2	0.12	10			Chrysotile	TAS_AHRA
A	13	A1	CD	41		MD1-1	7	1.2	5.8			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	A1	CD		41	MF	7	0.1	70			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
A	13	A1	CD	42		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	A1	CD		42	MF	3.5	0.12	29			Chrysotile	
A	13	A1	CD	43	43	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	13	A1	CD	44	44	B	4.5	0.8	5.6			Chrysotile	TAS_AHRA
A	13	A1	CD	45	45	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	13	A1	CD	46	46	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	14	D11	AQ	47	47	F	2.2	0.4	5.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	14	D11	CD	48	48	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	14	D11	CD	49	49	F	3.1	0.1	31			Chrysotile	TAS_AHRA
A	14	D11	CD	50	50	F	1	0.1	10			Chrysotile	TAS_AHRA
A	14	D11	CD	51	51	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	15	D31	AQ	52		MD1-0	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	15	D31	AQ		52	MF	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	
A	15	D31	CD	53		MD1-0	3.8	3	1.3			Chrysotile	TAS_AHRA
A	15	D31	CD		53	MF	1.58	0.1	16			Chrysotile	
A	15	D31	CD	54	54	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	16	A12	CD	55		MD1-0	3.8	2.8	1.4			Chrysotile	TAS_AHRA
B	16	A12	CD		55	MF	0.6	0.1	6.0			Chrysotile	
B	16	A12	AQ	56	56	F	2	0.45	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	16	A12	AQ	57	57	F	8.5	1.8	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	16	A12	AQ	58	58	F	20	1.2	17			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	16	A12	CD	59	59	B	1.2	0.15	8.0			Chrysotile	TAS_AHRA
B	16	A12	CDQ	60	60	B	3.3	0.2	16			Mg, Si Chrysotile	TAS_AHRA
B	17	D2	AQ	61	61	F	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	18	D22	CD	62	62	F	3	0.1	30			Chrysotile	TAS_AHRA
B	18	D22	AQ	63	63	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	18	D22	AQ	64	64	F	1.2	0.35	3.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	18	D22	CD	65	65	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	18	D22	CD	66	66	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	18	D22	AQ	67		MD1-1	5.5	5	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	18	D22	AQ		67	MF	5.35	0.47	11			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
B	19	D42	CD	68	68	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
B	19	D42	CD	69	69	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	19	D42	CD	70		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
B	19	D42	CD		70	MF	1.5	0.12	12			Chrysotile	
B	19	D42	CD	71	71	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	20	A1	AQ	72		MD1-0	5	1.8	2.8			Actinolite	TAS_AHRA
B	20	A1	AQ		72	MF	4	0.22	18			Mg, Al, Si, Ca, Fe Actinolite	
B	20	A1	CD	73		MD1-0	4	2	2.0			Chrysotile	TAS_AHRA
B	20	A1	CD		73	MF	0.8	0.1	8.0			Chrysotile	
B	20	A1	CD	74	74	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	21	D11	CD	75	75	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	21	D11	CD	76	76	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	22	D31	CD	77	77	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	22	D31	AQ	78	78	F	4	1.1	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	22	D31	CD	79	79	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	22	D31	CD	80	80	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	22	D31	CD	81	81	F	2	0.1	20			Chrysotile	TAS_AHRA
B	23	D10	AQ	82	82	F	2.2	0.4	5.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	23	D10	AQ	83	83	B	6.5	1.5	4.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	23	D10	CD	84	84	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	23	D10	CD	85	85	F	9	0.11	82			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	23	D10	AQ	86	86	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	23	D10	AQ	87	87	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	D30	CD	88	88	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	24	D30	AQ	89	89	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	D30	CD	90	90	F	5.5	0.1	55			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	24	D30	CD	91		MD1-0	4.8	1.2	4.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	24	D30	CD		91	MF	4	0.1	40			Chrysotile	
B	24	D30	CD	92	92	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	24	D30	CD	93		MD1-0	3.8	2	1.9			Chrysotile	TAS_AHRA
B	24	D30	CD		93	MF	1.2	0.12	10			Chrysotile	
B	25	C10	CD	94	94	F	1	0.1	10			Chrysotile	TAS_AHRA
B	25	C10	AQ	95		MD1-1	9.5	4	2.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	25	C10	AQ		95	MF	8.5	1.2	7.1			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	26	C40	CD	96		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
B	26	C40	CD		96	MF	0.8	0.08	10			Chrysotile	
B	26	C40	CD	97	97	F	1.2	0.12	10			Chrysotile	TAS_AHRA
B	26	C40	AQ	98	98	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	27	C12	CD	99	99	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	27	C12	CD	100	100	F	2.5	0.1	25			Chrysotile	TAS_AHRA
B	27	C12	CD	101	101	B	7	0.7	10			Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	27	C12	AQ	102		MD1-1	7.5	4	1.9			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	27	C12	AQ		102	MF	7.5	1.2	6.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S111 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44		NSD									
A	2	B34	CDQ	1	1	F	1	0.1	10	251	15953	Mg,Si Chrysotile DW 3-29-05	TAS_AHRA
A	2	B34	CD	2		MD1-0	0.75	0.75	1.0			Chrysotile	TAS_AHRA
A	2	B34	CD		2	MF	0.5	0.1	5.0			Chrysotile	
A	2	B34	CD	3		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
A	2	B34	CD		3	MF	1	0.1	10			Chrysotile	
A	2	B34	CD	4	4	F	2	0.1	20			Chrysotile	TAS_AHRA
A	2	B34	CD	5		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
A	2	B34	CD		5	MB	4	0.3	13			Chrysotile	
A	2	B34	CD	6	6	F	2.5	0.1	25			Chrysotile	TAS_AHRA
A	2	B34	CD	7	7	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	3	B24	CD	8		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
A	3	B24	CD		8	MF	1	0.1	10			Chrysotile	
A	3	B24	CD	9	9	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
A	4	B14	CD	10		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
A	4	B14	CD		10	MF	1	0.1	10			Chrysotile	
A	4	B14	CD	11	11	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	5	B4	CD	12	12	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	6	C4	CD	13		MD1-0	3	2.5	1.2			Chrysotile	TAS_AHRA
A	6	C4	CD		13	MF	1	0.1	10			Chrysotile	
A	6	C4	CD	14		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
A	6	C4	CD		14	MF	1	0.1	10			Chrysotile	
A	7	C14		NSD									
A	8	C24		NSD									
A	9	C34	CD	15		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
A	9	C34	CD		15	MF	1.2	0.1	12			Chrysotile	
A	10	A41	CD	16	16	F	1	0.1	10			Chrysotile	TAS_AHRA
A	10	A21	AQ	17	17	F	7.5	1	7.5			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	A1	CD	18	18	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	12	D1	AQ	19		MD1-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	12	D1	AQ		19	MF	7.5	1.2	6.2			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	13	D21		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S111 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	14	D41		NSD									
A	15	B40		NSD									
A	16	B30		NSD									
A	17	B20	CD	20		MD1-0	17	15	1.1			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	17	B20	CD		20	MF	1	0.1	10			Chrysotile	
A	18	B10	CD	21	21	F	1	0.1	10			Chrysotile	TAS_AHRA
A	19	C10	CD	22		MD1-0	10	10	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	C10	CD		22	MF	1.5	0.1	15			Chrysotile	
A	20	C20	AZQ	23		MD1-0	4	1.5	2.7			Actinolite	TAS_AHRA
A	20	C20	AZQ		23	MF	2.5	0.3	8.3	252	15954	Mg, Si, Ca, Fe Actinolite Zone Axis [3 0 1] DW 3/30/05	
A	21	C30	CD	24	24	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	22	C40	AQ	25		MD1-0	4	4	1.0			Actinolite	TAS_AHRA
A	22	C40	AQ		25	MF	2	0.5	4.0			Mg, Si, Ca, Fe Actinolite	
B	23	B43	AQ	26		MD1-1	35	35	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	23	B43	AQ		26	MF	11	2.5	4.4			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	24	B33	CD	27		MD1-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	24	B33	CD		27	MB	4	1.5	2.7			Chrysotile	
B	24	B23	CD	28		MD1-0	12	7.5	1.6			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	24	B23	CD		28	MF	2.5	0.1	25			Chrysotile	
B	25	B13	CD	29		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
B	25	B13	CD		29	MF	1	0.1	10			Chrysotile	
B	25	B13	CD	30		MD1-0	5	5	1.0			Chrysotile	TAS_AHRA
B	25	B13	CD		30	MF	1	0.1	10			Chrysotile	
B	26	B3	CD	31		MD1-0	7	7	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	26	B3	CD		31	MF	0.5	0.1	5.0			Chrysotile	
B	27	C3	AQ	32		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	27	C3	AQ		32	MF	10	2	5.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	28	C13		NSD									
B	29	C23		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S111 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	30	C33	CD	33		MD5-3	20	10	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	30	C33	CD		33	MF	6	0.1	60			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	30	C33	CD		34	MF	5.2	1	5.2			Chrysotile	AFB>5, PCMEF-US
B	30	C33	CD		35	MF	5.1	0.1	51			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	30	C33	CD		36	MF	4	0.1	40			Chrysotile	
B	30	C33	CD		37	MF	2	0.1	20			Chrysotile	
B	30	C33	CD	34	38	F	1	0.1	10			Chrysotile	TAS_AHRA
B	30	C33	CD	35		MD1-0	2.5	2.5	1.0			Chrysotile	TAS_AHRA
B	30	C33	CD		39	MF	2	0.1	20			Chrysotile	
B	30	C33	CD	36	40	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	31	C43	CD	37		MD2-0	6	6	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	C43	CD		41	MF	4	0.1	40			Chrysotile	
B	31	C43	CD		42	MF	1	0.1	10			Chrysotile	
B	31	C43	CD	38		MD3-0	4	4	1.0			Chrysotile	TAS_AHRA
B	31	C43	CD		43	MR3-0	3	1.5	2.0			Chrysotile	
B	31	C43	CD	39		MD5-0	6	6	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	C43	CD		44	MF	2	0.1	20			Chrysotile	
B	31	C43	CD		45	MF	1	0.1	10			Chrysotile	
B	31	C43	CD		46	MB	1	0.3	3.3			Chrysotile	
B	31	C43	CD		47	MF	0.5	0.1	5.0			Chrysotile	
B	31	C43	CD		48	MF	0.5	0.1	5.0			Chrysotile	
B	31	C43	CD	40		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	C43	CD		49	MF	0.5	0.1	5.0			Chrysotile	
B	31	C43	AQ	41		MD1-0	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	31	C43	AQ		50	MF	2	0.2	10			Mg, Si, Ca, Fe Actinolite	
B	31	C43	CD	42	51	F	1	0.1	10			Chrysotile	TAS_AHRA
B	32	B42	CD	43		MD1-0	1.5	1.5	1.0			Chrysotile	TAS_AHRA
B	32	B42	CD		52	MF	1	0.1	10			Chrysotile	
B	33	B22	CD	44		MD1-0	3.5	1.5	2.3			Chrysotile	TAS_AHRA
B	33	B22	CD		53	MF	3	0.1	30			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S111 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	34	B12	CD	45		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
B	34	B12	CD		54	MF	2	0.1	20			Chrysotile	
B	34	B12	CD	46		MD1-0	4	4	1.0			Chrysotile	TAS_AHRA
B	34	B12	CD		55	MF	1.5	0.1	15			Chrysotile	
B	35	B2		NSD									
B	36	C2	CD	47		MD1-0	5	4	1.2			Chrysotile	TAS_AHRA
B	36	C2	CD		56	MF	3	0.1	30			Chrysotile	
B	37	C12		NSD									
B	38	C22		NSD									
B	39	C32		NSD									
B	40	C42		NSD									
B	41	B40	CD	48		MD1-0	2.5	2.5	1.0			Chrysotile	TAS_AHRA
B	41	B40	CD		57	MF	2	0.1	20			Chrysotile	
B	42	B30	CD	49	58	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	43	B20	CD	50	59	F	1	0.1	10			Chrysotile	TAS_AHRA
B	43	B20	CD	51		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	43	B20	CD		60	MF	3	0.1	30			Chrysotile	
B	44	B10	CD	52	61	F	4	0.1	40			Chrysotile	TAS_AHRA
B	44	B10	CD	53	62	F	1	0.05	20			Chrysotile	TAS_AHRA
B	45	C10	AQ	54	63	F	3	0.4	7.5			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	46	C20	AQ	55		MD1-1	10	7	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	C20	AQ		64	MF	7.5	0.75	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

NSD = No Structures Detected
PAS = Primary Asbestos Structures
TAS = Total Asbestos Structures
AS>5 = Asbestos Structures > 5um
AFB>5 = Asbestos Fibers and Bundles > 5um
PCMEF-US = PCM Equivalent Fibers-US
PCMES-US = PCM Equivalent Structures-US
PCMEF-ISO = PCM Equivalent Fibers-ISO
PCMES-ISO = PCM Equivalent Structures-ISO

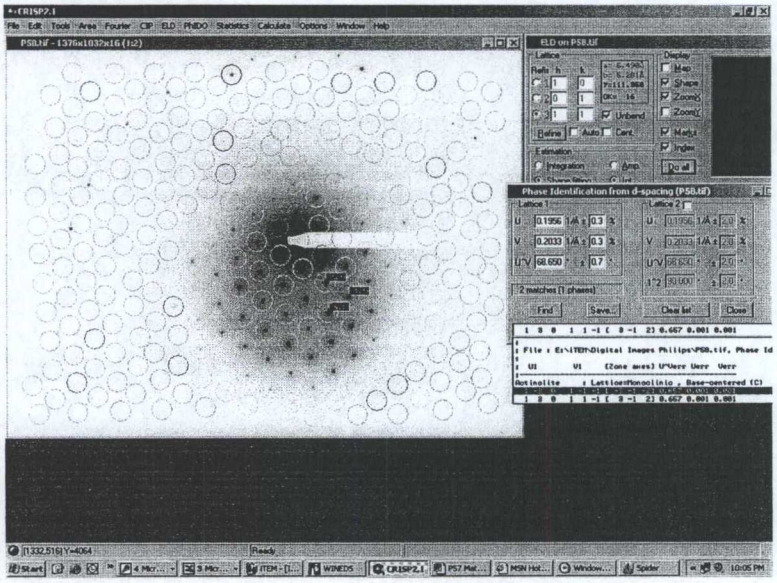
CF = Cleavage Fragments
TS = Transitional Structures

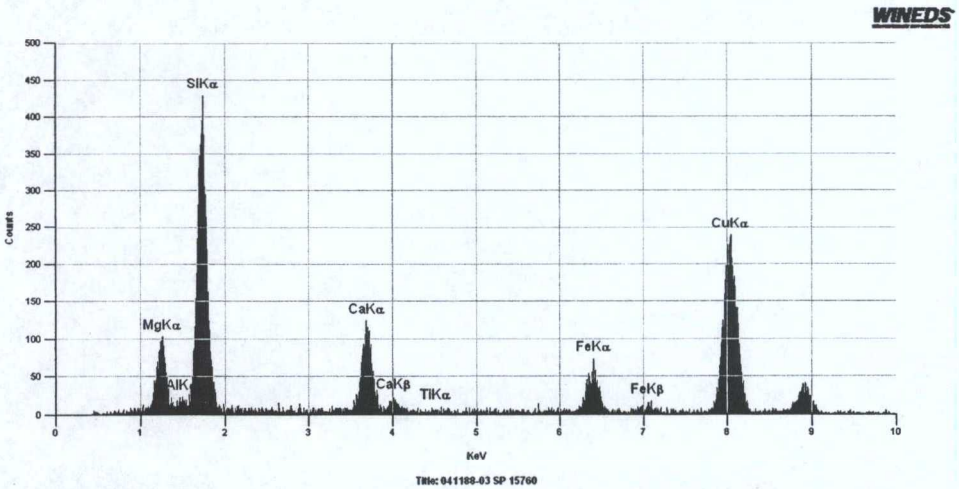
PSAS 5-10 = PROTOCOL ASB STRUCS 5-10
PSAS >10 = PROTOCOL ASB STRUCS >10
PSAS TOT = PROTOCOL ASB STRUCS TOTAL
PSCH 5-10 = PROTOCOL CHRYS STRUCS 5-10
PSCH >10 = PROTOCOL CHRYS STRUCS >10
PSCH TOT = PROTOCOL CHRYS STRUCS TOTAL
PSAM 5-10 = PROTOCOL AMPH STRUCS 5-10
PSAM >10 = PROTOCOL AMPH STRUCS >10
PSAM TOT = PROTOCOL AMPH STRUCS TOTAL

PChS = Primary Chrysotile Structures
PAmS = Primary Amphibole Structures

TAS_AHRA = AHERA-like Total Strucs 3:1
AS>5_AHRA = AHERA-like Asb Strucs >5 and 3:1
AS5-10_AHRA = AHERA-like Asb Strucs 5 - 10 and 3:1
AS>10_AHRA = AHERA-like Asb Strucs >10 and 3:1
TOS_AHRA = Total Other Amphibole Strucs 3:1
OS>5_AHRA = Other Amphibole Struc >5 and 3:1
OS5-10_AHRA = Other Amphibole Struc 5 - 10 and 3:1
OS>10_AHRA = Other Amphibole Strucs >10 and 3:1

ACTINOLITE
Zone Axis [3 1 2]
Neg# P58 Job# 041188-03
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-03 SP 15760 Tue, Feb 08 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 20.53
Correction: CLIFF LORIMER, Cycles: 1

Element	Line	Kratio	Error	ZAF	Weight	Counts	+/-

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.19	MgO	17.31	1.29	17.31
Al	0.13	Al2O3	0.32	0.27	0.32
Si	22.42	SiO2	62.95	2.14	62.95
Ca	4.08	CaO	10.68	0.82	10.68
Fe	2.34	Fe2O3	8.74	1.16	8.74
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.95	Si+4	8.0000	8.0000							
Al2O3	0.32	Al+3	0.1055	0.0000	**0.1055**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	8.74	Fe+3	0.0438			0.0438	0.0000				
MgO	17.31	Mg+2	3.6086			3.6086	**0.0000**				
MnO	0	Fe+2	1.0506			1.0506	**0.0000**				
CaO	10.68	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.6381					1.6381	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.1055	C site	0.0000	B site	0	A site	0
			Total	8		4.8084		1.6381		0.0000	0.0000
			%Fill	100		96.1683		81.9038			

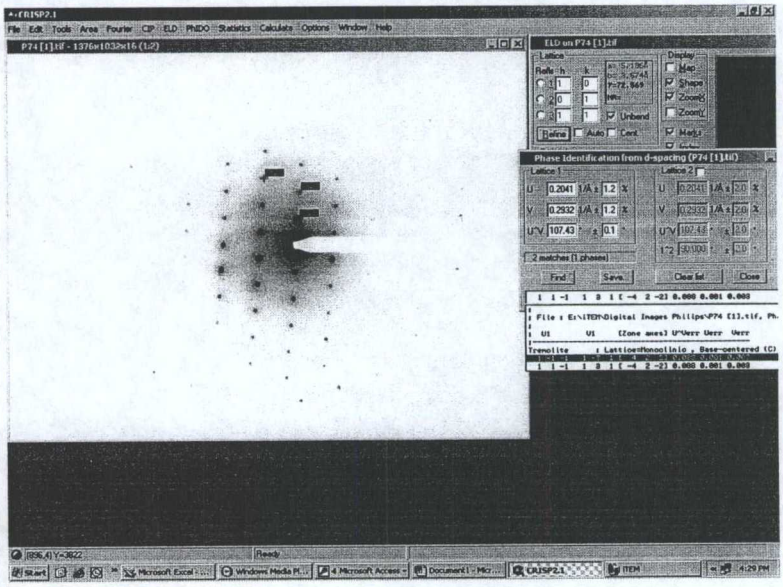
Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

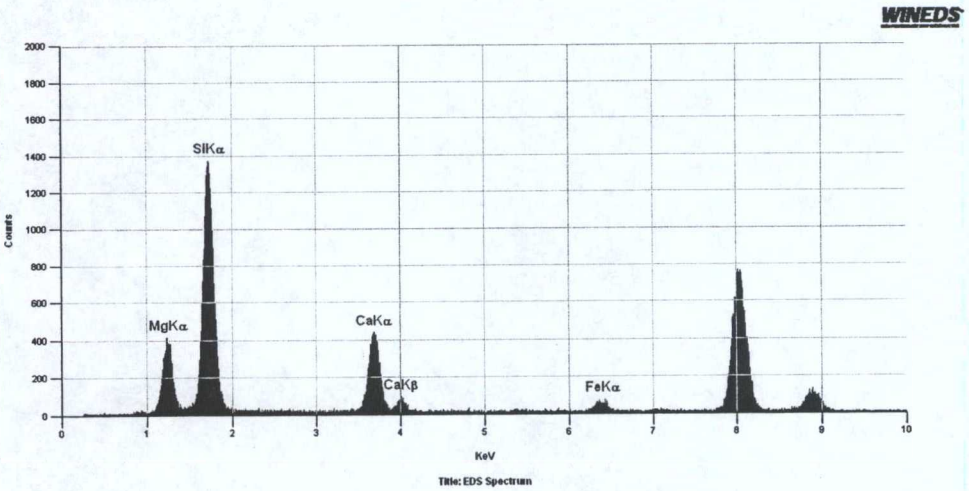
Sample # 041188-03-15760

Values		Satisfied Conditions
(Ca,Na)@B	1.64	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.64	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.77	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

TREMOLITE
Zone Axis [2 1 1]
Neg# P74 Job# 041188-05
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-05 SP 15774 Fri, Feb 11 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 70.24
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	11.85	MgO	22.74	0.76	22.74
Si	21.79	SiO2	62.37	1.11	62.37
Ca	4.66	CaO	12.44	0.40	12.44
Fe	0.64	Fe2O3	2.45	0.30	2.45
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.37	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	2.45	Fe+3	0.0301			0.0301	0.0000				
MgO	22.74	Mg+2	4.5706			4.5706	**0.0000**				
MnO	0	Fe+2	0.3133			0.3133	**0.0000**				
CaO	12.44	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.8262					1.8262	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0000	C site	0.0000	B site	0	A site	0
			Total	8		4.9140		1.8262		0.0000	0.0000
			%Fill	100		98.2799		91.3103			

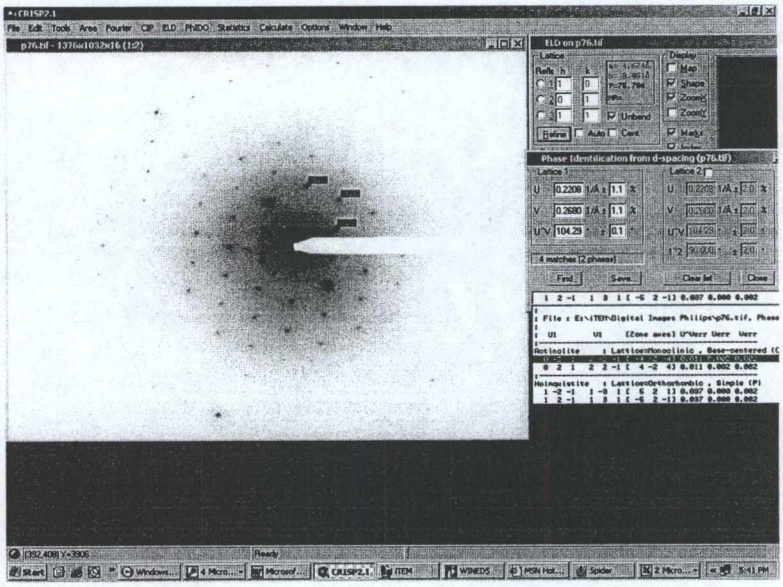
Prefix	none
Name	tremolite
Modifier	none
Group	Calcic Amphibole

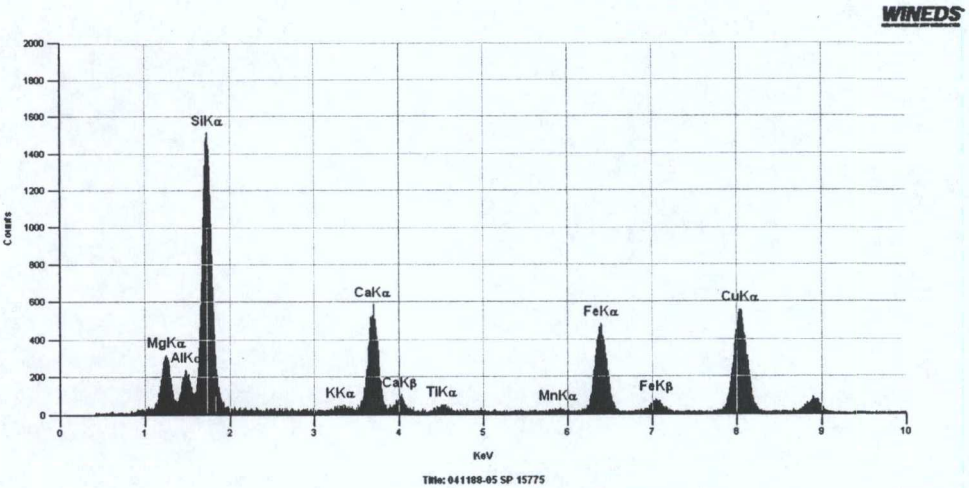
Sample # 041188-05-15774

Values		Satisfied Conditions
(Ca,Na)@B	1.83	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.83	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.94	(Mg/(Mg+Fe2))>= 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
Zone Axis [2 1 2]
Neg# P76 Job# 041188-05
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-05 SP 15575 Sat, Feb 12 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 6.05
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.73	MgO	12.05	0.67	12.05
Al	1.13	Al2O3	2.55	0.21	2.55
Si	19.94	SiO2	53.21	1.21	53.21
K	0.16	K2O	0.34	0.19	0.34
Ca	4.96	CaO	12.37	0.52	12.37
Fe	5.49	Fe2O3	19.48	0.97	19.48
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	53.21	Si+4	7.6754	7.6754							
Al2O3	2.55	Al+3	0.4335	0.3246	**0.1089**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	19.48	Fe+3	0.2960			0.2960	0.0000				
MgO	12.05	Mg+2	2.5913			2.5913	**0.0000**				
MnO	0	Fe+2	2.0207			2.0038	**0.0169**				
CaO	12.37	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.9116					1.9116	0.0000		
K2O	0.34	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0626							0.0626	0.0000
Total	**100**		**Excess**	T site	**0.1089**	C site	**0.0169**	B site	**0**	A site	**0**
			Total	**8**		**5.0000**		**1.9116**		**0.0626**	**0.0000**
			%Fill	**100**		**100**		**95.5808**			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # **041188-05-15775**

Values		Satisfied Conditions
(Ca,Na)@B	1.91	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.91	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.06	Si > 7.5
Mg/(Mg+Fe2)	0.56	(Mg/(Mg+Fe2))< 0.9
Si	7.68	

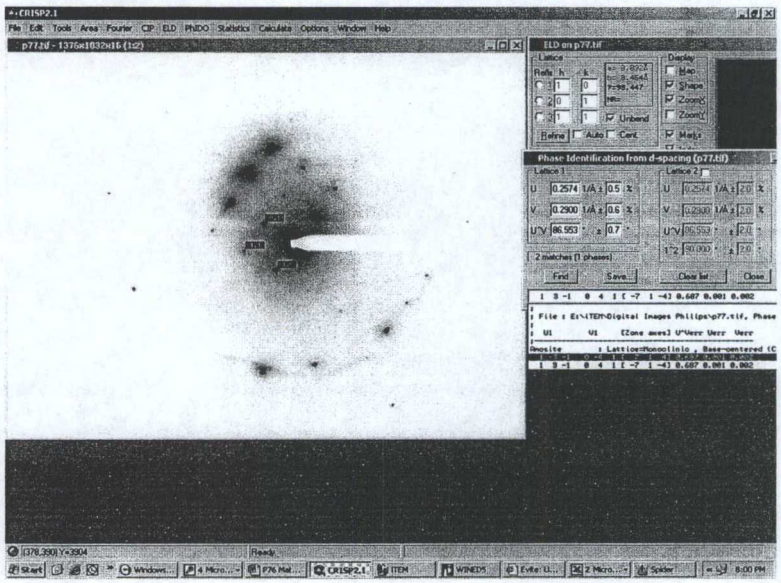
Mineral Analysis Program (Version 5.0)

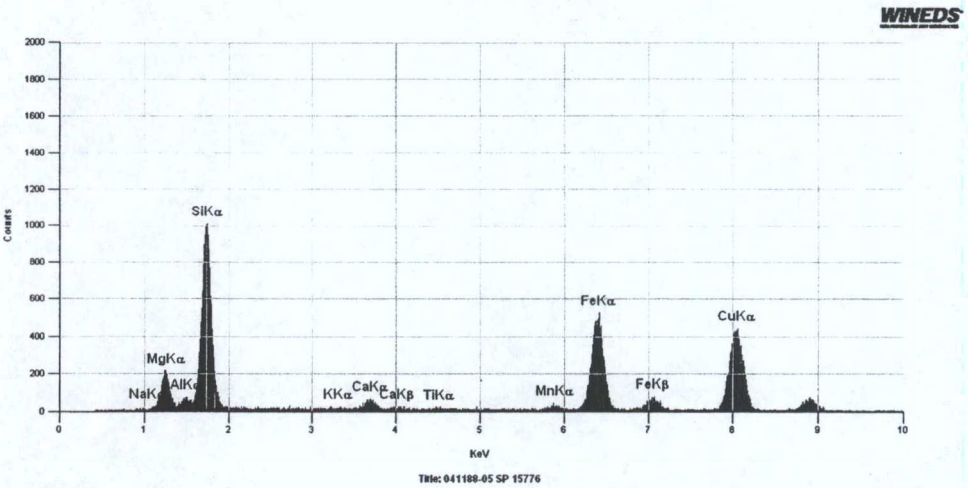
AMOSITE

Zone Axis [7 1 4]

Neg# P77 Job# 041188-05

iTEM Image





Quantitative Analysis Results - Standardless Analysis :

041188-05 SP 15776 Sat, Feb 12 2005

EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 7.06

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.23	MgO	12.78	0.74	12.78
Al	0.36	Al2O3	0.81	0.19	0.81
Si	20.39	SiO2	53.76	1.49	53.76
Ca	0.59	CaO	1.46	0.29	1.46
Fe	8.90	Fe2O3	31.19	1.53	31.19
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	53.76	Si+4	7.9440	7.9440							
Al2O3	0.81	Al+3	0.1411	0.0560	**0.0851**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	31.19	Fe+3	0.0000			0.0000	0.0000				
MgO	12.78	Mg+2	2.8154			2.8154	**0.0000**				
MnO	0	Fe+2	3.8539			2.0996	**1.7543**				
CaO	1.46	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	0.2311					0.2311	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.0851**	C site	**1.7543**	B site	**0**	A site	**0**
			Total	**8**		**5.0000**		**0.2311**		**0.0000**	**0.0000**
			%Fill	**100**		**100**		**11.5565**			

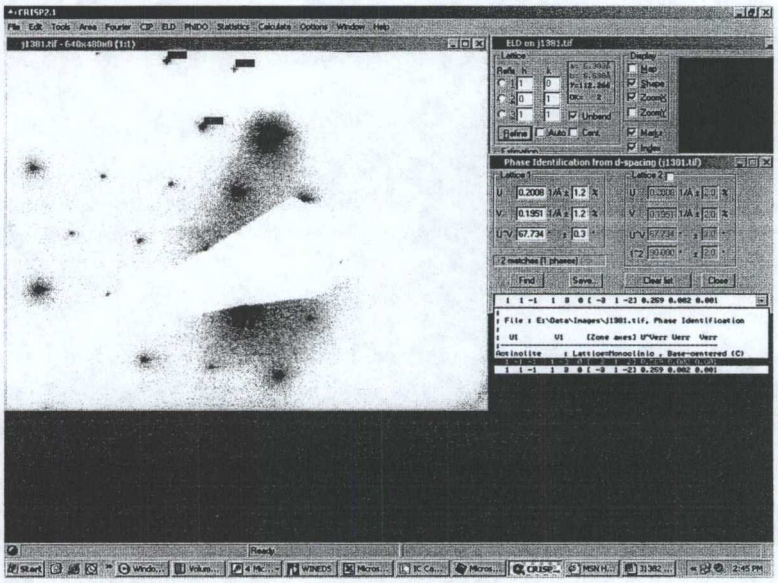
Prefix none
Name grunerite, ferro-anthophyllite, ferroholmquistite, clinoferroholmquistite
Modifier none
Group Mg-Fe-Mn Amphibole

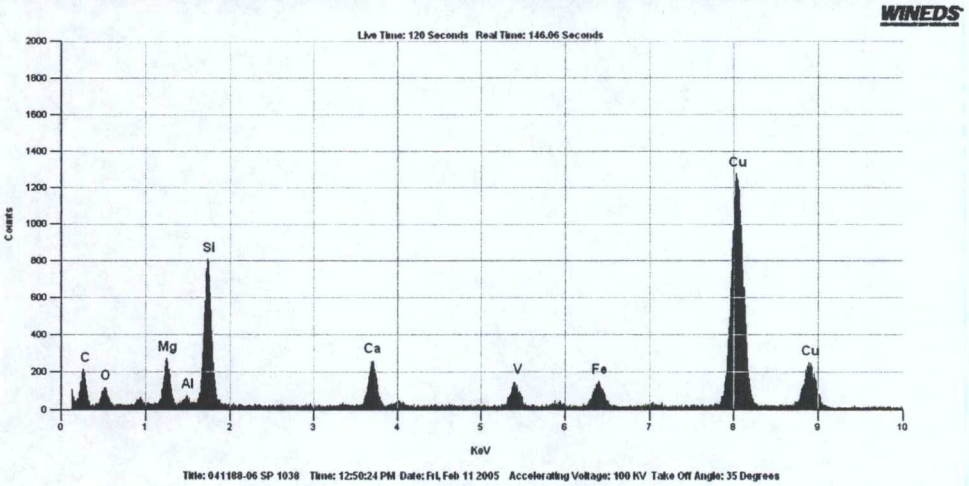
Sample # **041188-05-15776**

Values		**Satisfied Conditions**
(Ca,Na)@B	**0.23**	**(Ca,Na)@B < 1 and (Mg,Fe2,Mn)@B >= 0.95**
(Mg,Fe2,Mn)@B	**1.75**	**(Mg/(Mg+Fe2))< 0.5**
Mg/(Mg+Fe2)	**0.42**	**Si > 7**
Si	**7.94**	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
Zone Axis [3 1 2]
Gatan Image
Neg# J1381 Job# 041188-06





Quantitative Analysis Results - Standardless Analysis :
041188-06 SP 1038 Fri, Feb 11 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 21.57
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.10	MgO	12.88	0.80	12.88
Al	0.51	Al2O3	1.16	0.30	1.16
Si	20.84	SiO2	56.39	2.00	56.39
Ca	6.04	CaO	15.26	1.18	15.26
Fe	3.98	Fe2O3	14.31	2.02	14.31
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	56.39	Si+4	7.9868	7.9868							
Al2O3	1.16	Al+3	0.1936	0.0132	**0.1805**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	14.31	Fe+3	0.0153			0.0153	0.0000				
MgO	12.88	Mg+2	2.7197			2.7197	**0.0000**				
MnO	0	Fe+2	1.6778			1.6778	**0.0000**				
CaO	15.26	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.3155					2.0000	0.3155		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.1805**	C site	**0.0000**	B site	**0.315523**	A site	**0**
			Total	**8**		**4.5932**		**2.0000**		**0.0000**	**0.0000**
			%Fill	**100**		**91.8641**		**100**			

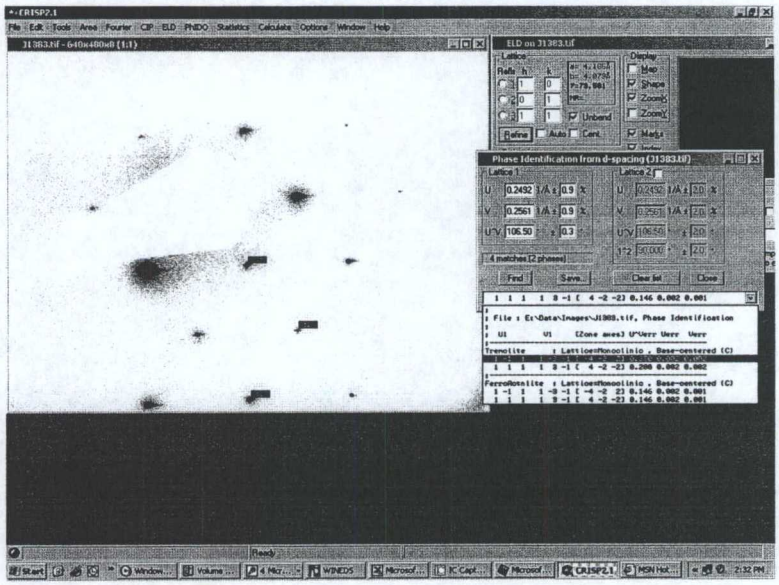
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

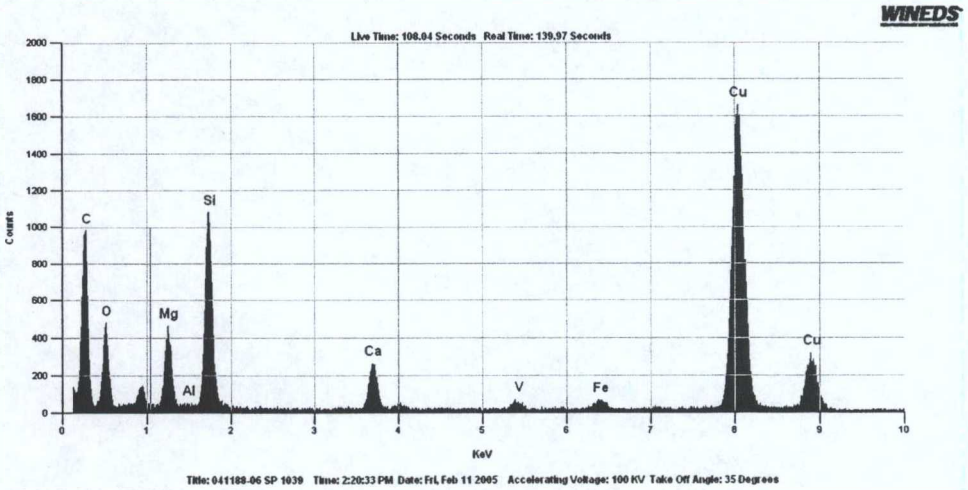
Sample # 041188-06-1038

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.62	(Mg/(Mg+Fe2))< 0.9
Si	7.99	

Mineral Analysis Program (Version 5.0)

TREMOLITE
Zone Axis [-2 -1 1]
Gatan Image
Neg# J1382 Job# 041188-06





Quantitative Analysis Results - Standardless Analysis :
041188-06 SP 1039 Fri, Feb 11 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 96.73
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.26	MgO	17.60	0.89	17.60
Si	22.71	SiO2	64.30	1.98	64.30
Ca	5.37	CaO	14.20	1.02	14.20
Fe	1.04	Fe2O3	3.90	1.27	3.90
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	64.3	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.9	Fe+3	0.0540			0.0540	0.0000				
MgO	17.6	Mg+2	3.6803			3.6803	**0.0000**				
MnO	0	Fe+2	0.5398			0.5398	**0.0000**				
CaO	14.2	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.1614					2.0000	0.1614		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.0000**	C site	**0.0000**	B site	**0.1613811**	A site	**0**
			Total	**8**		**4.2741**		**2.0000**		**0.0000**	**0.0000**
			%Fill	**100**		**85.4814**		**100**			

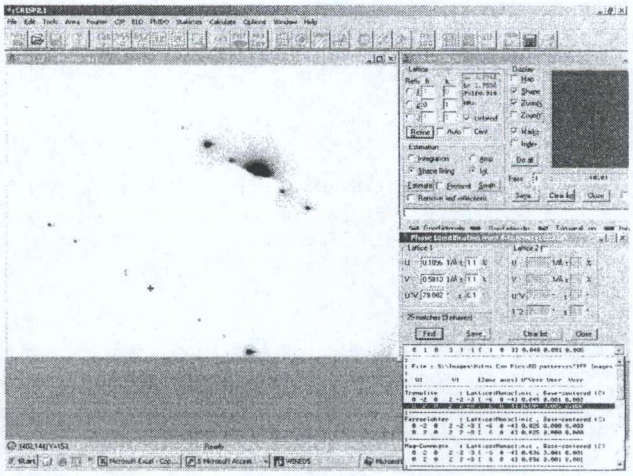
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

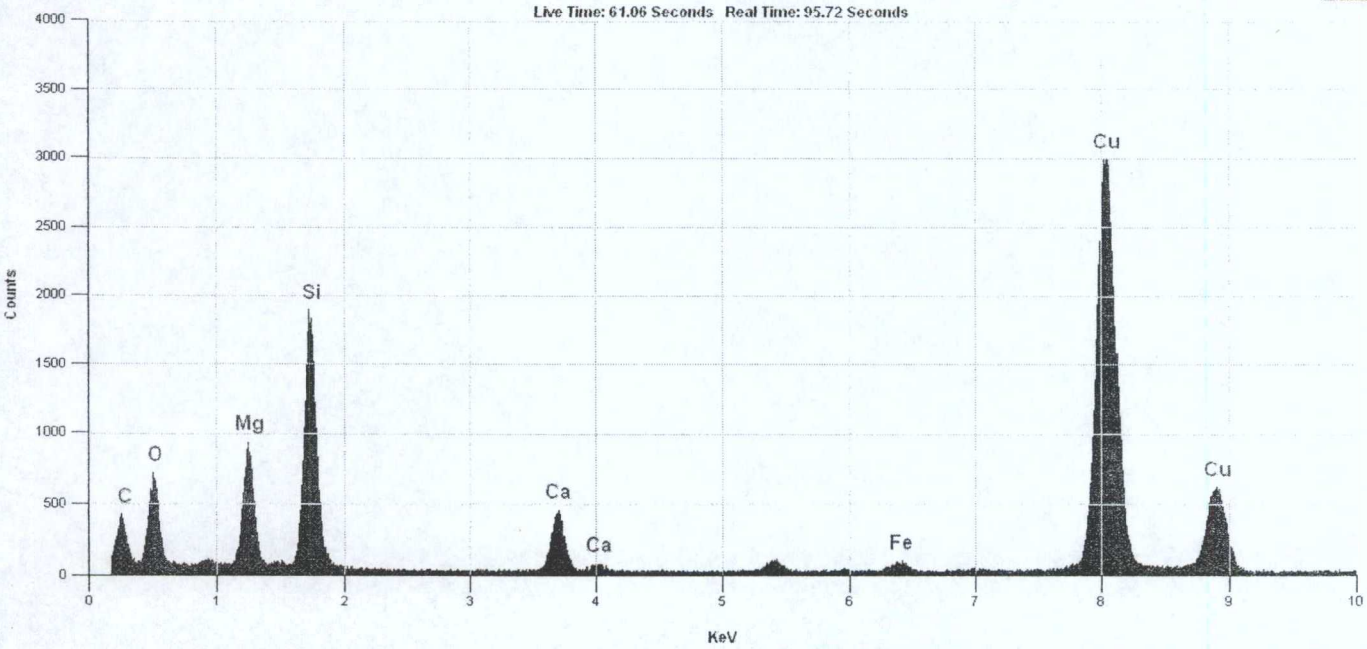
Sample # **041188-06-1039**

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.87	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

TREMOLITE
041188-07 Indirect, Neg#J1387
[3 0 2]





Title: 041188-07-SPJ1044 Time: 12:43:18 PM Date: Tue, Feb 15 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-07-SPJ1044 Tue, Feb 15 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 52.62
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	11.30	MgO	21.65	0.61	21.65
Si	22.05	SiO2	62.98	1.22	62.98
Ca	4.62	CaO	12.33	0.56	12.33
Fe	0.80	Fe2O3	3.05	0.58	3.05
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.98	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.05	Fe+3	0.0336			0.0336	0.0000				
MgO	21.65	Mg+2	4.3873			4.3873	**0.0000**				
MnO	0	Fe+2	0.4016			0.4016	**0.0000**				
CaO	12.33	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.8330					1.8330	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100.01		Excess	T site	0.0000	C site	0.0000	B site	0	A site	0
			Total	8		4.8225		1.8330		0.0000	0.0000
			%Fill	100		96.4497		91.6497			

Prefix	none
Name	tremolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-07-1044

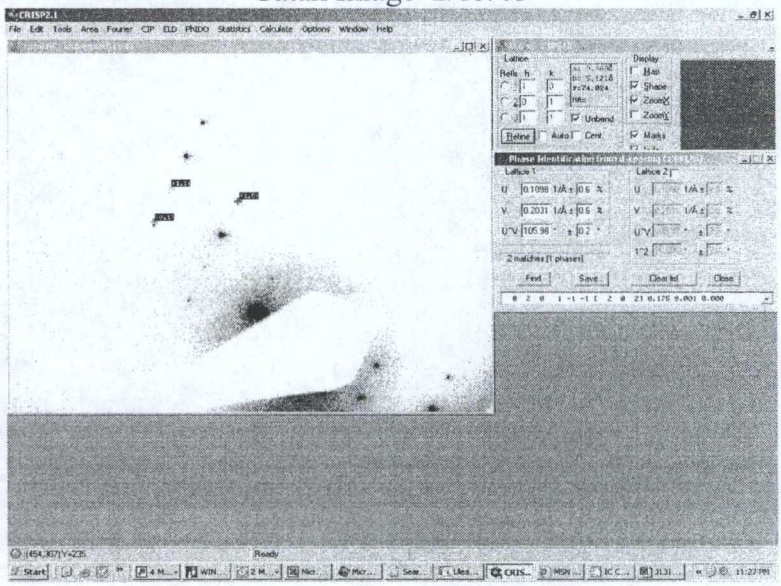
Values		Satisfied Conditions
(Ca,Na)@B	1.83	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.83	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.92	(Mg/(Mg+Fe2))>= 0.9
Si	8.00	

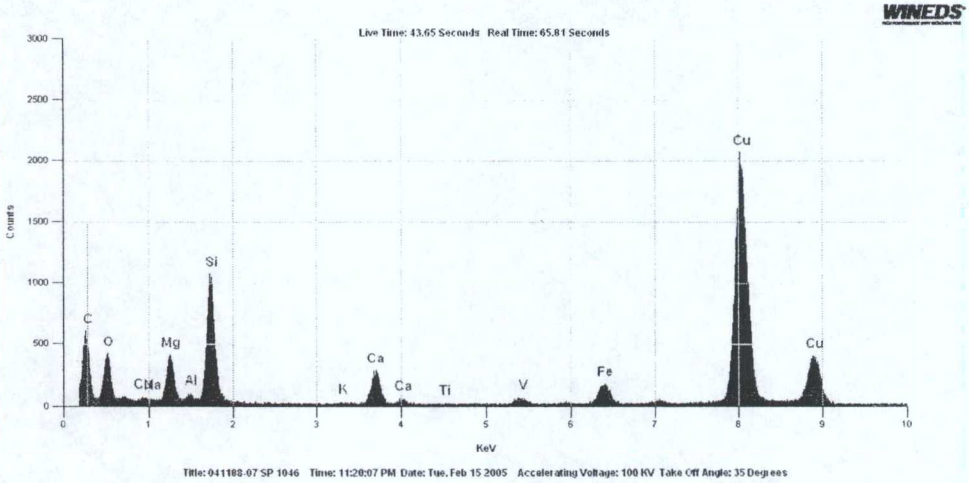
Mineral Analysis Program (Version 5.0)

ACTINOLITE - Zone Axis [1 0 1]

041188-07 Neg# J1390

Gatan Image 2/15/05





Quantitative Analysis Results - Standardless Analysis :

041188-07 SP 1046 Tue, Feb 15 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 105.50

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.34	MgO	15.38	0.61	15.38
Al	0.49	Al2O3	1.15	0.23	1.15
Si	21.26	SiO2	58.43	1.44	58.43
Ca	4.81	CaO	12.34	0.71	12.34
Fe	3.48	Fe2O3	12.70	1.19	12.70
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.43	Si+4	8.0000	8.0000							
Al2O3	1.15	Al+3	0.2011	0.0000	**0.2011**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	12.7	Fe+3	0.0216			0.0216	0.0000				
MgO	15.38	Mg+2	3.2156			3.2156	**0.0000**				
MnO	0	Fe+2	1.4778			1.4778	**0.0000**				
CaO	12.34	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.8587					1.8587	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.2011**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.9161**		**1.8587**		**0.0000**	**0.0000**
			%Fill	**100**		**98.3219**		**92.9354**			

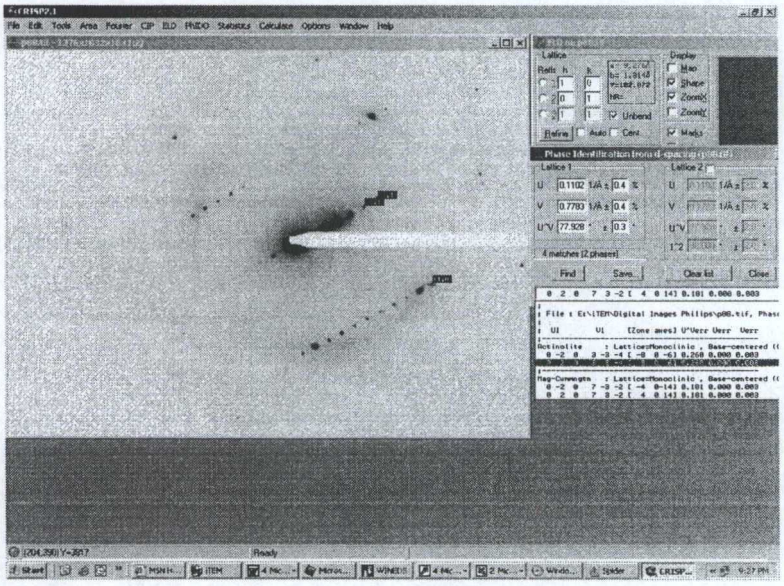
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

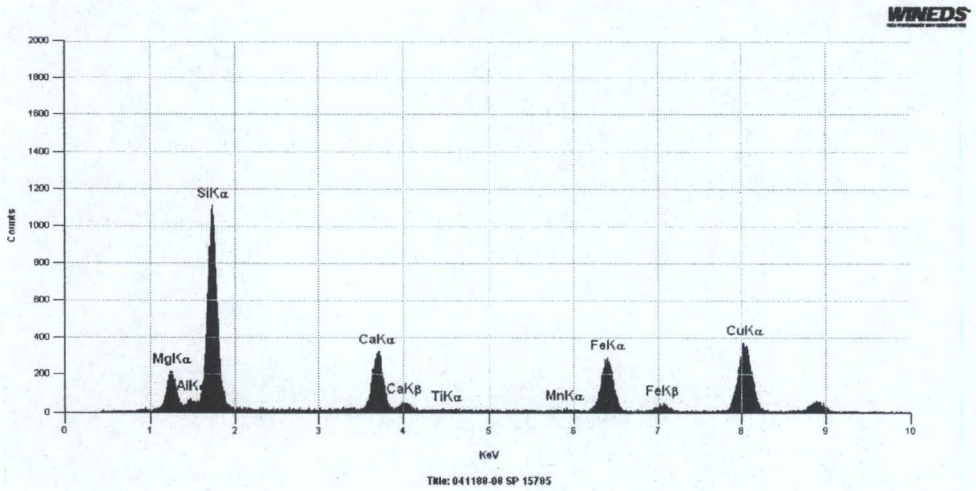
Sample # **041188-07-1046**

Values		Satisfied Conditions
(Ca,Na)@B	1.86	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.86	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.69	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
Zone Axis [4 0 3]
Neg# P88 Job# 041188-08
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-08 SP 15785 Mon, Feb 14 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 9.24
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.95	MgO	12.64	0.84	12.64
Al	0.23	Al2O3	0.54	0.20	0.54
Si	21.70	SiO2	58.86	1.58	58.86
Ca	4.18	CaO	10.59	0.62	10.59
Fe	4.82	Fe2O3	17.37	1.19	17.37
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.86	Si+4	8.0000	8.0000							
Al2O3	0.54	Al+3	0.1203	0.0000	**0.1203**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.37	Fe+3	0.1849			0.1849	0.0000				
MgO	12.64	Mg+2	2.7235			2.7235	**0.0000**				
MnO	0	Fe+2	1.8993			1.8993	**0.0000**				
CaO	10.59	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.6489					1.6489	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.1203**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.9280**		**1.6489**		**0.0000**	**0.0000**
			%Fill	**100**		**98.5594**		**82.4433**			

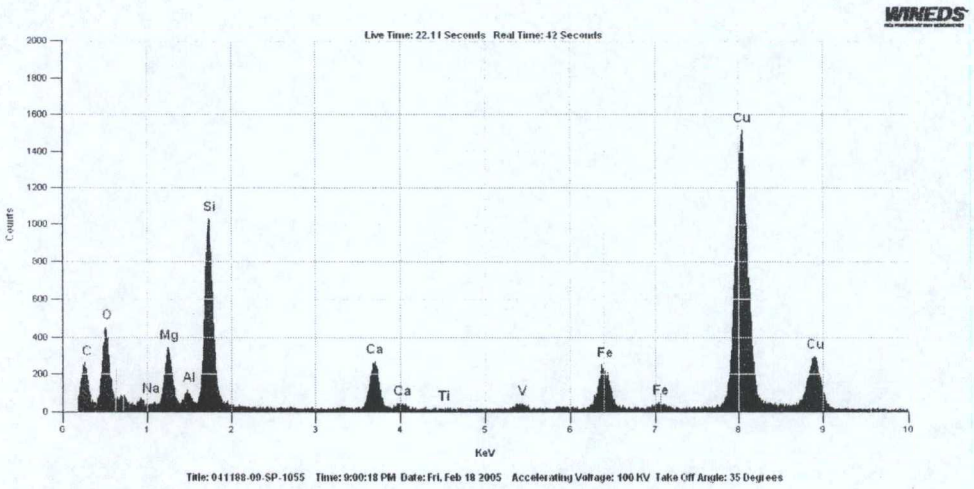
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # 041188-08-15785

Values		Satisfied Conditions
(Ca,Na)@B	1.65	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.65	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.59	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE - Zone Axis [5 1 2]
041188-09 Neg# J1399
Gatan Image 2/18/05



Quantitative Analysis Results - Standardless Analysis :
041188-09-SP-1055 Fri, Feb 18 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 81.82
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.42	Na2O	0.58	0.33	0.58
Mg	6.83	MgO	12.35	0.56	12.35
Al	0.75	Al2O3	1.72	0.24	1.72
Si	20.56	SiO2	55.37	1.41	55.37
Ca	4.92	CaO	12.38	0.70	12.38
Fe	4.92	Fe2O3	17.61	1.38	17.61
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	55.37	Si+4	7.9201	7.9201							
Al2O3	1.72	Al+3	0.2899	0.0799	**0.2101**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.61	Fe+3	0.0190			0.0190	0.0000				
MgO	12.35	Mg+2	2.6336			2.6336	**0.0000**				
MnO	0	Fe+2	2.0852			2.0852	**0.0000**				
CaO	12.38	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0.58	Ca+2	1.8971					1.8971	0.0000		
K2O	0	Na+	0.1608					0.1029	**0.0580**	0.0580	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100.01**		**Excess**	T site	**0.2101**	C site	**0.0000**	B site	**0.0579834**	A site	**0**
			Total	**8**		**4.9479**		**2.0000**		**0.0580**	**0.0000**
			%Fill	**100**		**98.9572**		**100**			

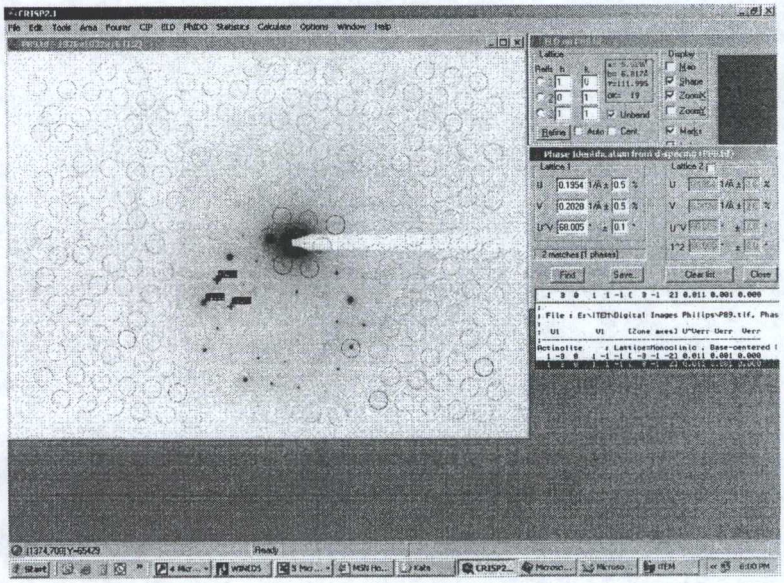
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

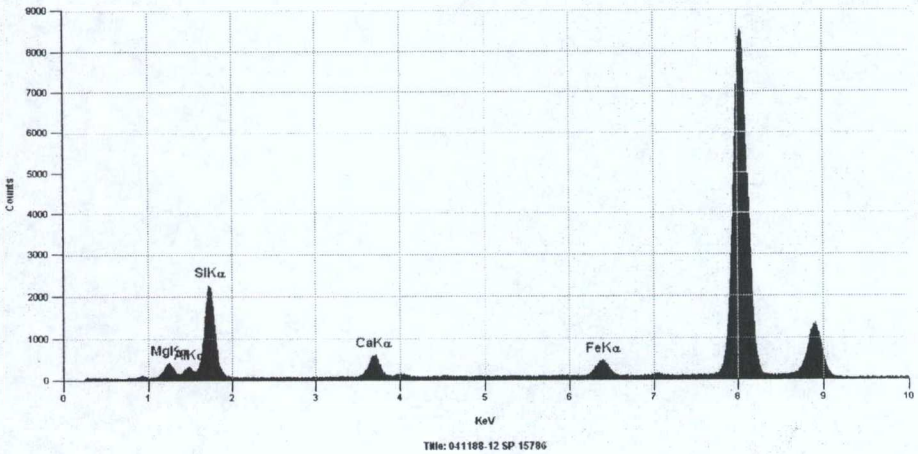
Sample # **041188-09-1055**

Values		**Satisfied Conditions**
(Ca,Na)@B	**2.00**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.10**	**Ca@B >= 1.5 and (Na,K)@A < 0.5**
Ca@B	**1.90**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.06**	**Si > 7.5**
Mg/(Mg+Fe2)	**0.56**	**(Mg/(Mg+Fe2))< 0.9**
Si	**7.92**	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
Zone Axis [3 -1 2]
Neg# P89 Job# 041188-12
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-12 SP 15786 Tue, Feb 15 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 13.65
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.64	MgO	12.46	0.49	12.46
Al	1.29	Al2O3	3.05	0.17	3.05
Si	23.06	SiO2	64.50	0.83	64.50
Ca	3.62	CaO	9.46	0.29	9.46
Fe	2.83	Fe2O3	10.53	0.48	10.53
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	64.5	Si+4	8.0000	8.0000							
Al2O3	3.05	Al+3	0.5548	0.0000	**0.5548**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	10.53	Fe+3	0.0579			0.0579	0.0000				
MgO	12.46	Mg+2	2.6721			2.6721	**0.0000**				
MnO	0	Fe+2	1.2711			1.2711	**0.0000**				
CaO	9.46	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.4903					1.4903	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.5548**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.5559**		**1.4903**		**0.0000**	**0.0000**
			%Fill	**100**		**91.119**		**74.5151**			

Prefix none
Name probable actinolite Ca values below optimal levels
Modifier none
Group Calcic Amphibole

Sample # 041188-12-15786

Values		Satisfied Conditions
(Ca,Na)@B	1.49	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	1 < Ca@B < 1.5 and (Na,K)@A < 0.5
Ca@B	1.49	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.68	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Lab/Cor, Inc.

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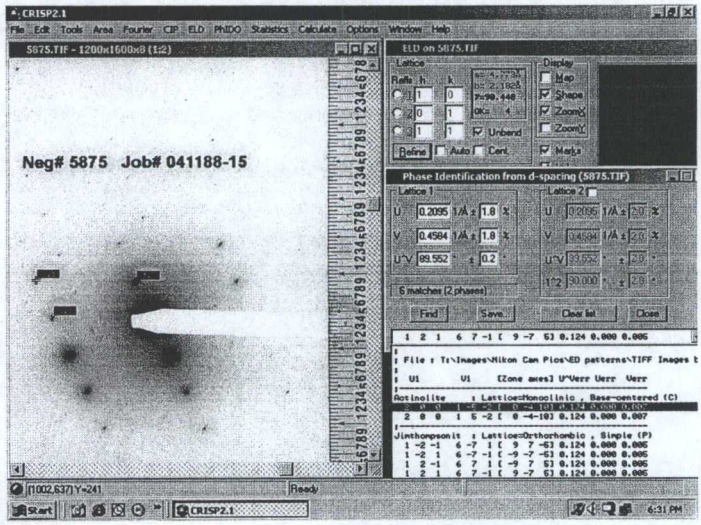
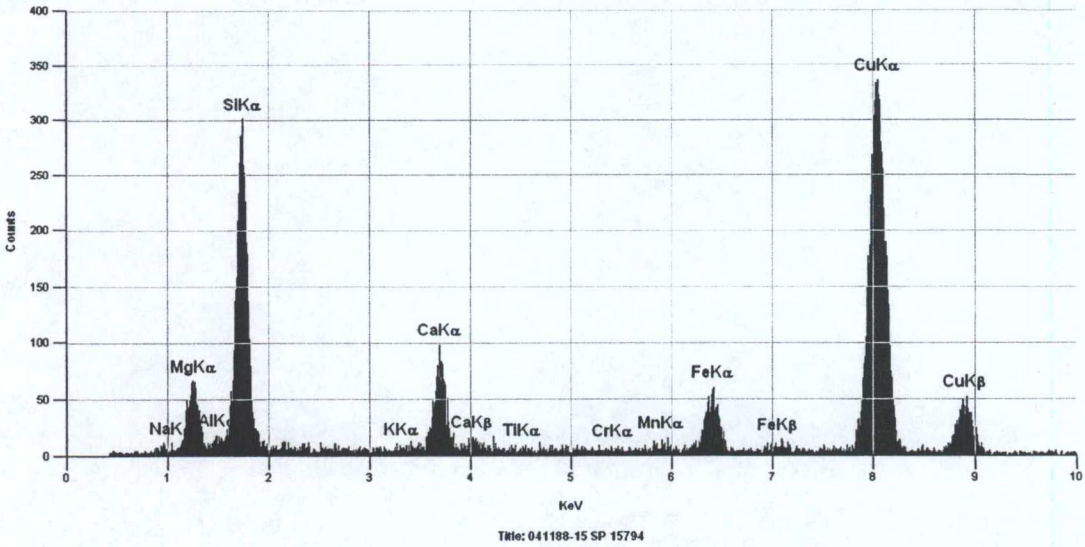
ACTINOLITE

Neg# 5875 Job# 041188-15

Zone Axis [0 2 5]

Philips Negative





Quantitative Analysis Results - Standardless Analysis :
041188-15 SP 15794 Tue, Feb 15 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 10.79
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.04	MgO	14.96	1.75	14.96
Si	22.60	SiO2	62.74	3.30	62.74
Ca	4.14	CaO	10.73	1.28	10.73
Fe	3.13	Fe2O3	11.56	1.96	11.56
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.74	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	11.56	Fe+3	0.0626			0.0626	0.0000				
MgO	14.96	Mg+2	3.2368			3.2368	**0.0000**				
MnO	0	Fe+2	1.4154			1.4154	**0.0000**				
CaO	10.73	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.7092					1.7092	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**99.99**		**Excess**	T site	**0.0000**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.7148**		**1.7092**		**0.0000**	**0.0000**
			%Fill	**100**		**94.2955**		**85.4601**			

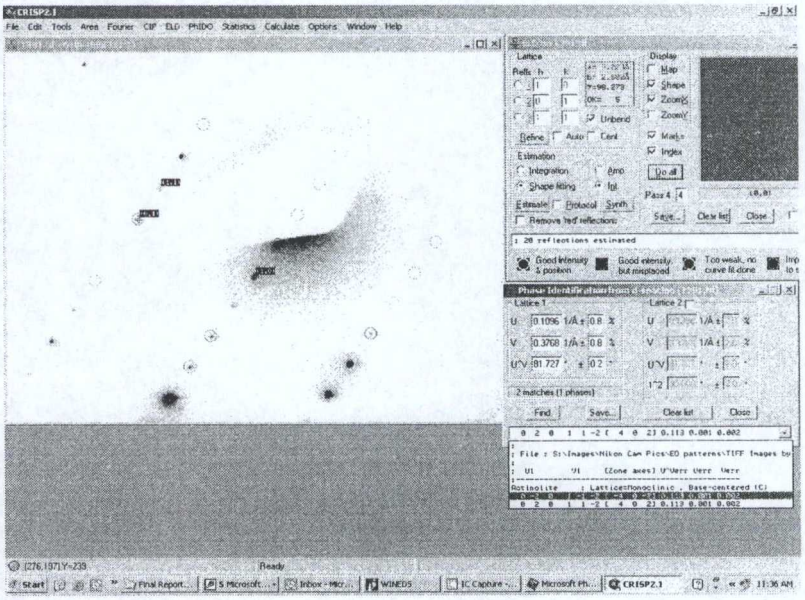
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

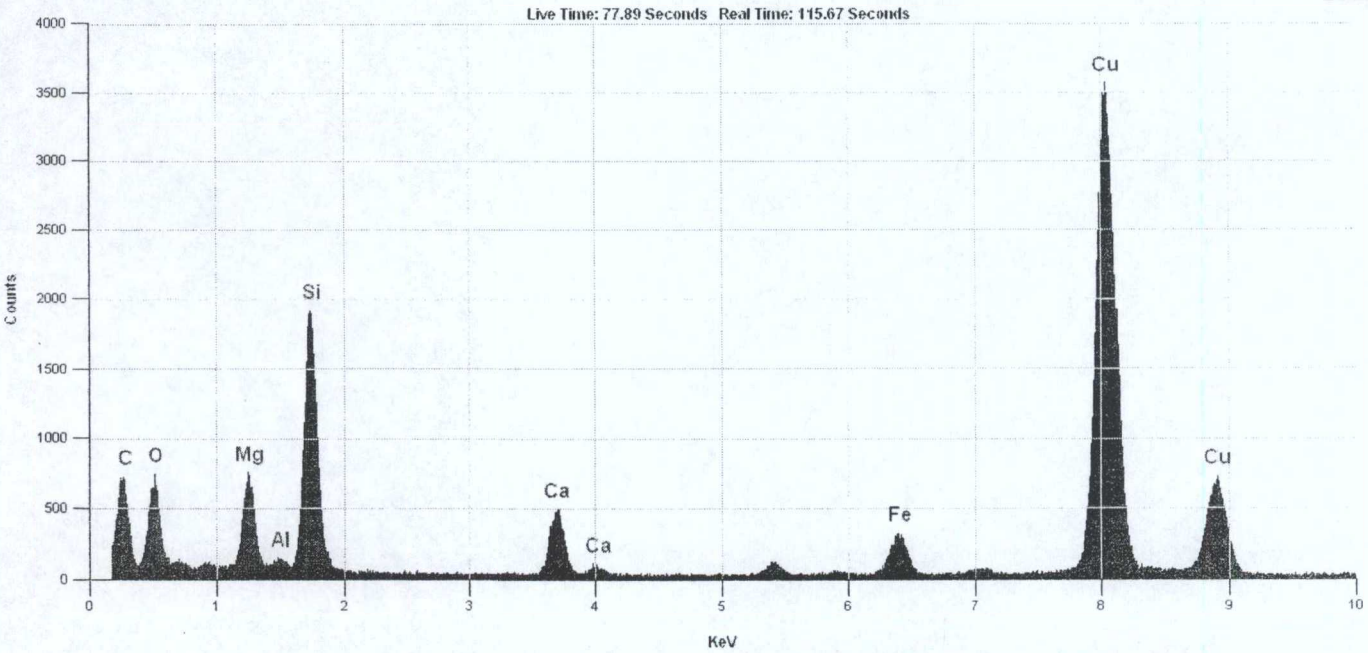
Sample # **041188-15-15794**

Values		**Satisfied Conditions**
(Ca,Na)@B	**1.71**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.00**	**Ca@B >= 1.5 and (Na,K)@A < 0.5**
Ca@B	**1.71**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.00**	**Si > 7.5**
Mg/(Mg+Fe2)	**0.70**	**(Mg/(Mg+Fe2))< 0.9**
Si	**8.00**	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
041188-19 Indirect, Neg#J1391
[2 0 1]





Title: 041188-19-J1047 Time: 11:21:42 AM Date: Wed, Feb 16 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-19-J1047 Wed, Feb 16 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 47.34
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.39	MgO	15.41	0.50	15.41
Al	0.37	Al2O3	0.85	0.17	0.85
Si	21.10	SiO2	57.80	1.13	57.80
Ca	4.86	CaO	12.42	0.56	12.42
Fe	3.72	Fe2O3	13.52	0.94	13.52
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.8	Si+4	8.0000	8.0000							
Al2O3	0.85	Al+3	0.1476	0.0000	**0.1476**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	13.52	Fe+3	0.0476			0.0476	0.0000				
MgO	15.41	Mg+2	3.2260			3.2260	**0.0000**				
MnO	0	Fe+2	1.5415			1.5415	**0.0000**				
CaO	12.42	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.8712					1.8712	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	**0.1476**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	8		4.9627		1.8712		0.0000	0.0000
			%Fill	100		99.2541		93.5592			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

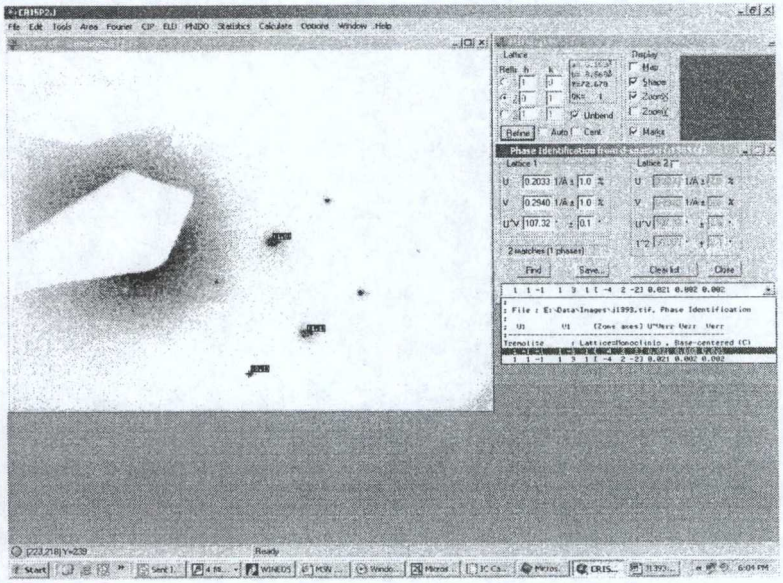
Sample # 041188-19-1047

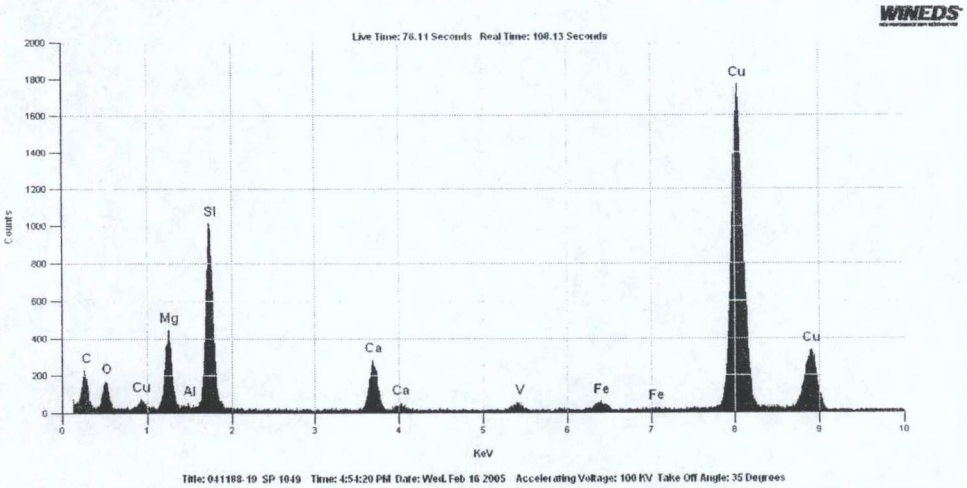
Values		Satisfied Conditions
(Ca,Na)@B	1.87	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.87	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.68	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

TREMOLTE - Zone Axis [2 1 1]

041188-19 Neg# J1393

Gatan Image 2/16/05





Quantitative Analysis Results - Standardless Analysis :

041188-19 SP 1049 Wed, Feb 16 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 24.43

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.10	MgO	19.17	0.90	19.17
Si	22.08	SiO2	62.49	1.97	62.49
Ca	5.60	CaO	14.78	1.06	14.78
Fe	0.95	Fe2O3	3.56	1.19	3.56
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.49	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.56	Fe+3	0.0353			0.0353	0.0000				
MgO	19.17	Mg+2	3.9391			3.9391	**0.0000**				
MnO	0	Fe+2	0.4638			0.4638	**0.0000**				
CaO	14.78	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.2032					2.0000	0.2032		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.0000**	C site	**0.0000**	B site	**0.2031599**	A site	**0**
			Total	**8**		**4.4382**		**2.0000**		**0.0000**	**0.0000**
			%Fill	**100**		**88.7647**		**100**			

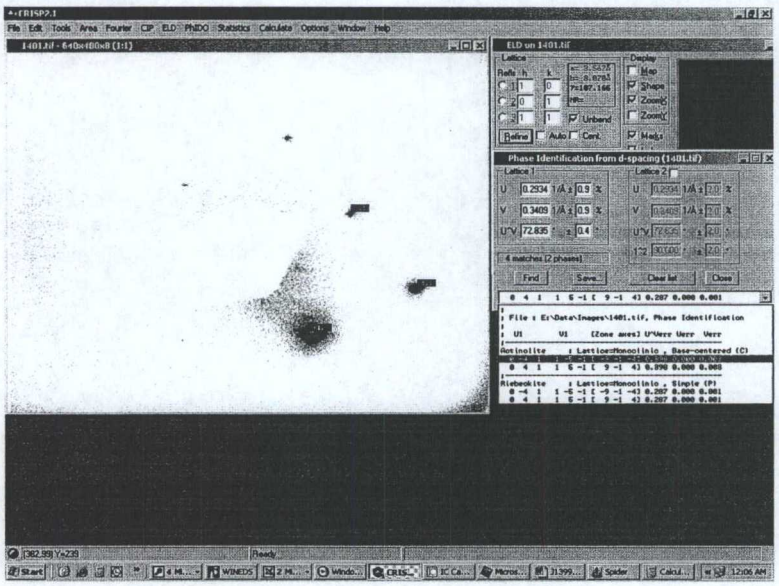
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

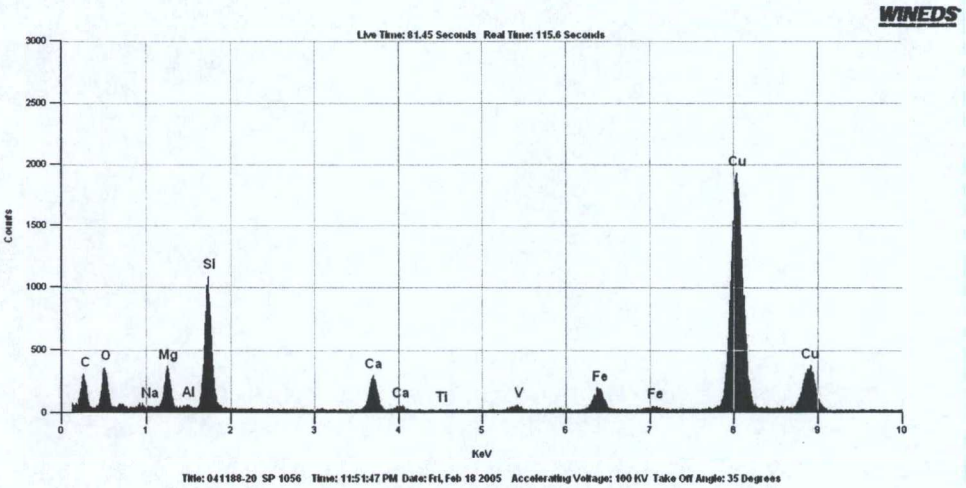
Sample # **041188-19-1049**

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.89	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE - Zone Axis [9 1 4]
041188-20 Neg# J1401
Gatan Image 2/18/05





Quantitative Analysis Results - Standardless Analysis :
041188-20 SP 1056 Fri, Feb 18 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 42.08
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.24	MgO	13.16	0.68	13.16
Al	0.20	Al2O3	0.46	0.21	0.46
Si	21.14	SiO2	57.22	1.69	57.22
Ca	5.42	CaO	13.70	0.90	13.70
Fe	4.30	Fe2O3	15.47	1.69	15.47
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.22	Si+4	8.0000	8.0000							
Al2O3	0.46	Al+3	0.0882	0.0000	**0.0882**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	15.47	Fe+3	0.0238			0.0238	0.0000				
MgO	13.16	Mg+2	2.8054			2.8054	**0.0000**				
MnO	0	Fe+2	1.8285			1.8285	**0.0000**				
CaO	13.7	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.0978					2.0000	0.0978		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100.01**		**Excess**	T site	**0.0882**	C site	**0.0000**	B site	**0.0978437**	A site	**0**
			Total	**8**		**4.7459**		**2.0000**		**0.0000**	**0.0000**
			%Fill	**100**		**94.9175**		**100**			

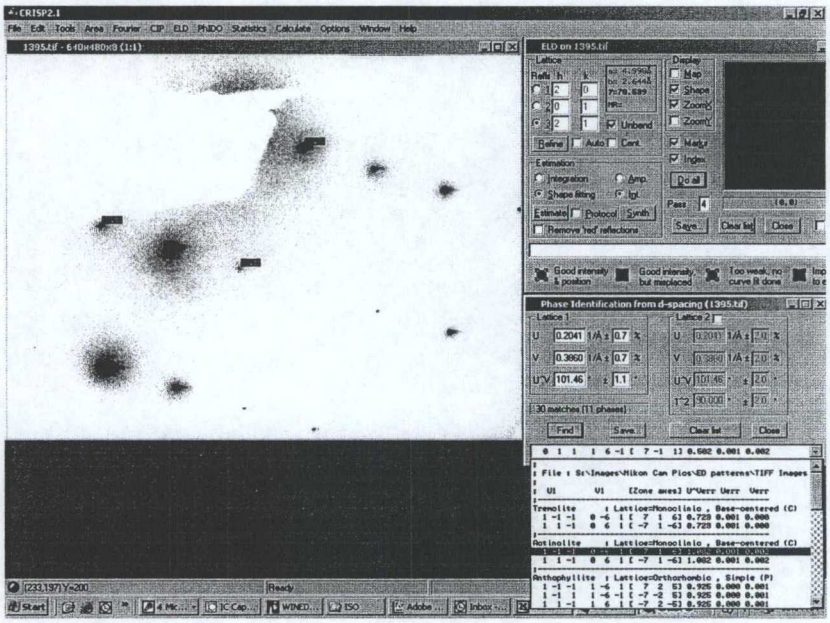
Prefix none
Name actinolite
Modifier none
´Group Calcic Amphibole

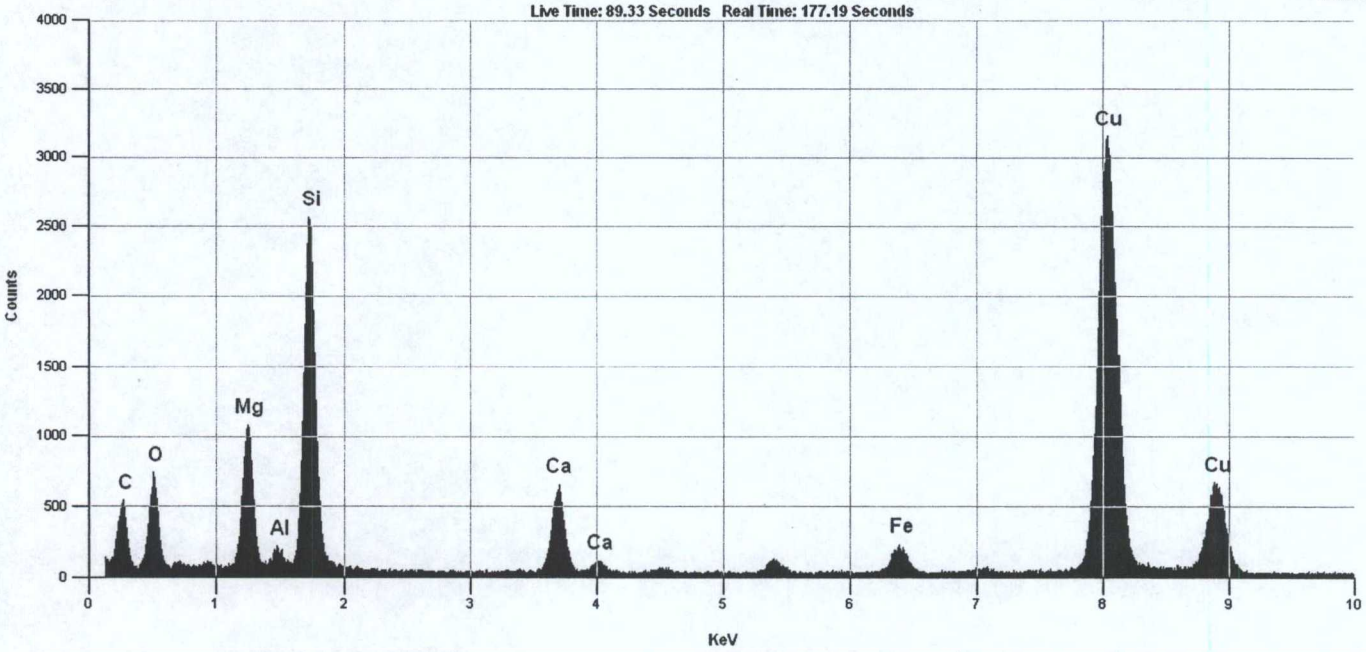
Sample # **041188-20-1056**

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.61	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
041188-25 Indirect, Neg#J1395
[7 1 6]





Title: 041188-25-sp1061 Time: 10:14:01 AM Date: Thu, Feb 17 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-25-sp1061 Thu, Feb 17 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 23.45
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.59	MgO	18.05	0.55	18.05
Al	0.54	Al2O3	1.29	0.18	1.29
Si	21.60	SiO2	60.58	1.23	60.58
Ca	4.89	CaO	12.80	0.62	12.80
Fe	1.95	Fe2O3	7.28	0.87	7.28
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	60.58	Si+4	8.0000	8.0000							
Al2O3	1.29	Al+3	0.2276	0.0000	**0.2276**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	7.28	Fe+3	0.0215			0.0215	0.0000				
MgO	18.05	Mg+2	3.6930			3.6930	**0.0000**				
MnO	0	Fe+2	0.8460			0.8460	**0.0000**				
CaO	12.8	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.8937					1.8937	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	**0.2276**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	8		4.7881		1.8937		0.0000	0.0000
			%Fill	100		95.7625		94.6835			

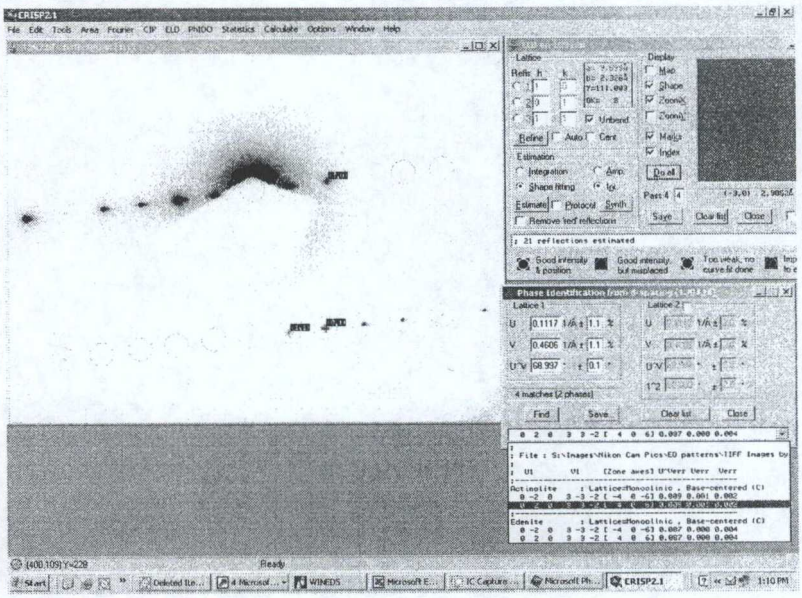
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

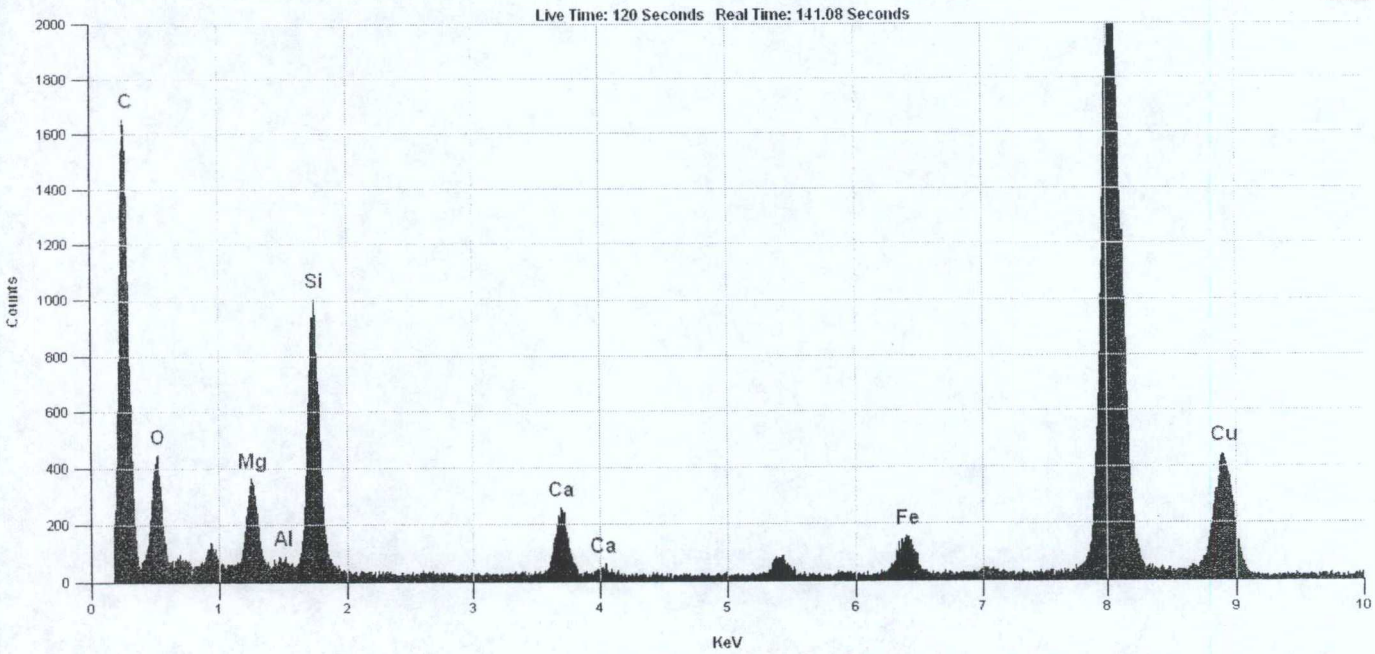
Sample # 041188-25-1061

Values		Satisfied Conditions
(Ca,Na)@B	1.89	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.89	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.81	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
041188-27 Indirect, Neg#J1397
[2 0 3]





Title: 041188-27-SP1053 Time: 12:54:50 PM Date: Fri, Feb 18 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-27-SP1053 Fri, Feb 18 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 170.86
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.87	MgO	14.52	0.67	14.52
Al	0.23	Al2O3	0.53	0.25	0.53
Si	21.83	SiO2	60.05	1.51	60.05
Ca	4.89	CaO	12.55	0.75	12.55
Fe	3.38	Fe2O3	12.35	1.28	12.35
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	60.05	Si+4	8.0000	8.0000							
Al2O3	0.53	Al+3	0.1211	0.0000	**0.1211**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	12.35	Fe+3	0.0351			0.0351	0.0000				
MgO	14.52	Mg+2	3.0785			3.0785	**0.0000**				
MnO	0	Fe+2	1.4618			1.4618	**0.0000**				
CaO	12.55	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.9207					1.9207	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.1211**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.6965**		**1.9207**		**0.0000**	**0.0000**
			%Fill	**100**		**93.9301**		**96.0359**			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # **041188-27-1053**

Values		**Satisfied Conditions**
(Ca,Na)@B	**1.92**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.00**	**Ca@B >= 1.5 and (Na,K)@A < 0.5**
Ca@B	**1.92**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.00**	**Si > 7.5**
Mg/(Mg+Fe2)	**0.68**	**(Mg/(Mg+Fe2))< 0.9**
Si	**8.00**	

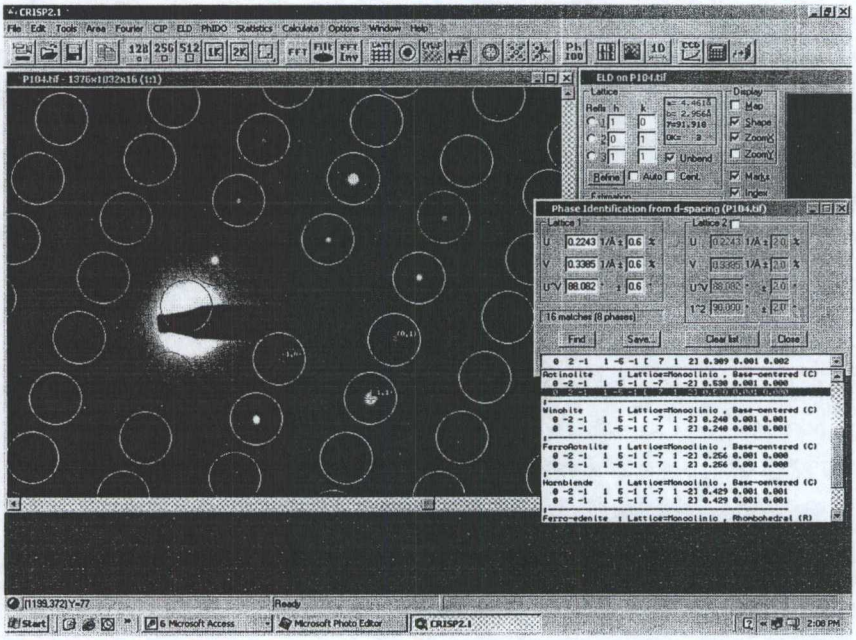
Mineral Analysis Program (Version 5.0)

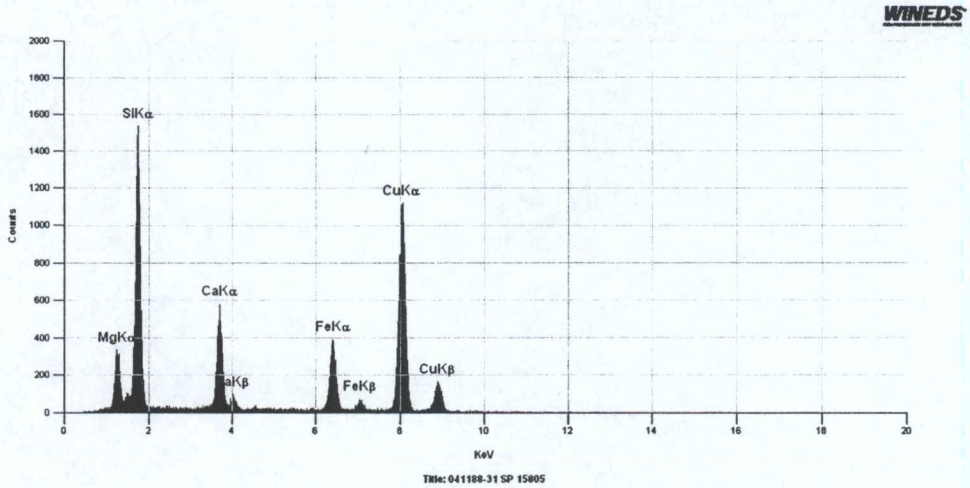
ACTINOLITE

Zone Axis [7 1 2]

Neg# P104 Job# 041188-31

iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-31 SP 15805 Sun, Feb 20 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 19.57
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.83	MgO	14.22	0.79	14.22
Al	0.19	Al2O3	0.45	0.20	0.45
Si	20.91	SiO2	56.64	1.51	56.64
Ca	4.98	CaO	12.60	0.65	12.60
Fe	4.47	Fe2O3	16.09	1.11	16.09
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	56.64	Si+4	8.0000	8.0000							
Al2O3	0.45	Al+3	0.0779	0.0000	**0.0779**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	16.09	Fe+3	0.0532			0.0532	0.0000				
MgO	14.22	Mg+2	3.0099			3.0099	**0.0000**				
MnO	0	Fe+2	1.8525			1.8525	**0.0000**				
CaO	12.6	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.9171					1.9171	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0779	C site	0.0000	B site	0	A site	0
			Total	8		4.9935		1.9171		0.0000	0.0000
			%Fill	100		99.8692		95.855			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # 041188-31-15805

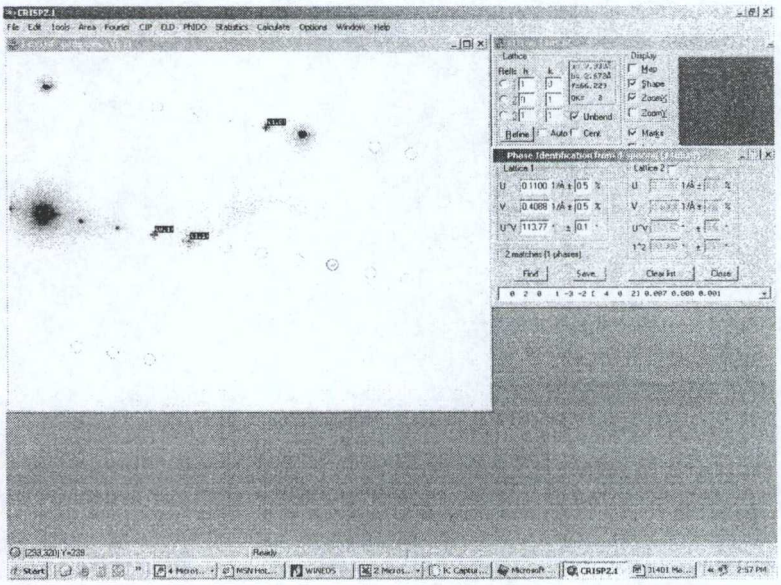
Values		Satisfied Conditions
(Ca,Na)@B	1.92	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.92	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.62	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

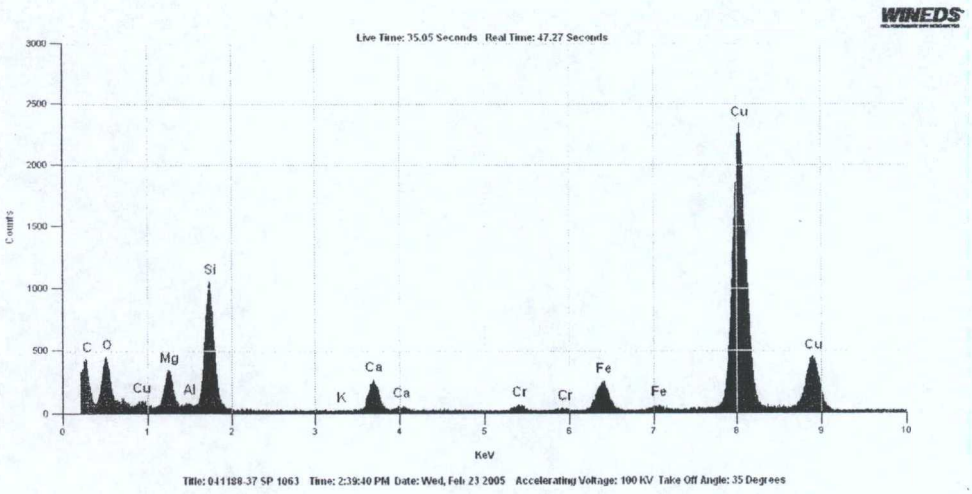
Mineral Analysis Program (Version 5.0)

ACTINOLITE - Zone Axis [2 0 1]

041188-37 Neg# J1409

Gatan Image 2/23/05





Quantitative Analysis Results - Standardless Analysis :

041188-37 SP 1063 Wed, Feb 23 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 114.16

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.13	MgO	12.94	0.52	12.94
Al	0.23	Al2O3	0.52	0.22	0.52
Si	21.38	SiO2	57.86	1.21	57.86
K	0.10	K2O	0.22	0.16	0.22
Ca	4.41	CaO	11.14	0.60	11.14
Fe	4.82	Fe2O3	17.32	1.13	17.32
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.86	Si+4	8.0000	8.0000							
Al2O3	0.52	Al+3	0.1035	0.0000	**0.1035**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.32	Fe+3	0.1396			0.1396	0.0000				
MgO	12.94	Mg+2	2.7675			2.7675	**0.0000**				
MnO	0	Fe+2	1.9264			1.9264	**0.0000**				
CaO	11.14	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.7164					1.7164	0.0000		
K2O	0.22	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0579							0.0579	0.0000
Total	100		Excess	T site	**0.1035**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	8		4.9370		1.7164		0.0579	0.0000
			%Fill	100		98.7391		85.8195			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # 041188-37-1063

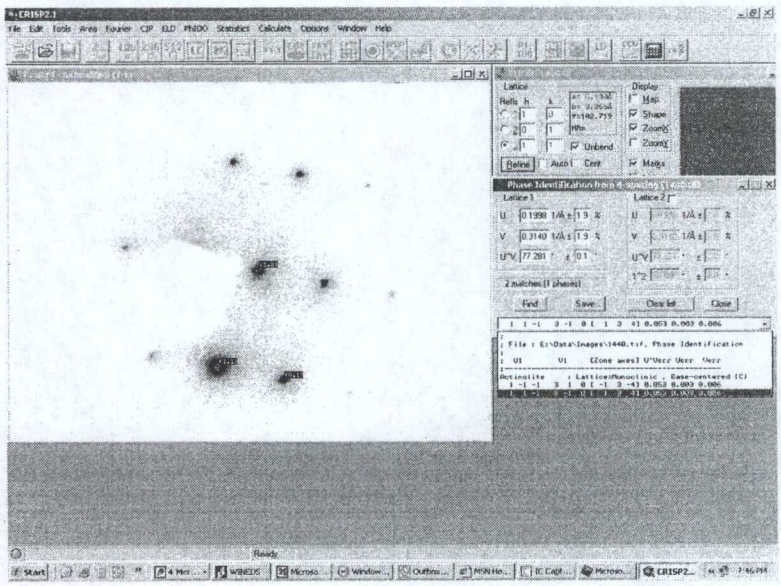
Values		Satisfied Conditions
(Ca,Na)@B	1.72	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.72	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.06	Si > 7.5
Mg/(Mg+Fe2)	0.59	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

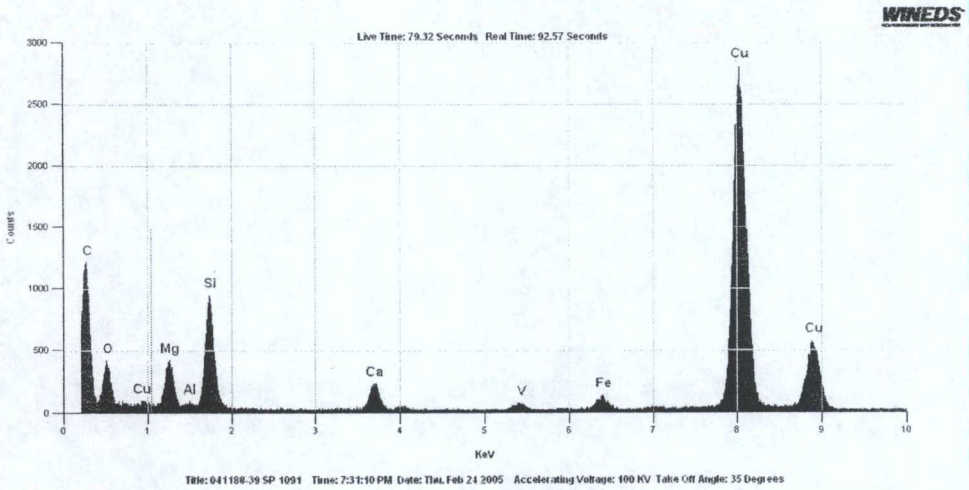
Mineral Analysis Program (Version 5.0)

ACTINOLITE - Zone Axis [1 3 4]

041188-39 Neg# J1440

Gatan Image 2/24/05





Quantitative Analysis Results - Standardless Analysis :

041188-39 SP 1091 Thu, Feb 24 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 174.62

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.22	MgO	19.14	0.67	19.14
Al	0.27	Al2O3	0.63	0.25	0.63
Si	21.22	SiO2	59.28	1.33	59.28
Ca	4.58	CaO	11.95	0.67	11.95
Fe	2.42	Fe2O3	8.99	0.96	8.99
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	59.28	Si+4	8.0000	8.0000							
Al2O3	0.63	Al+3	0.1069	0.0000	**0.1069**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	8.99	Fe+3	0.2887			0.2887	0.0000				
MgO	19.14	Mg+2	3.8908			3.8908	**0.0000**				
MnO	0	Fe+2	0.7131			0.7131	**0.0000**				
CaO	11.95	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.7498					1.7498	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	99.99		Excess	T site	**0.1069**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	8		4.9995		1.7498		0.0000	0.0000
			%Fill	100		99.9893		87.4905			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-39-1091

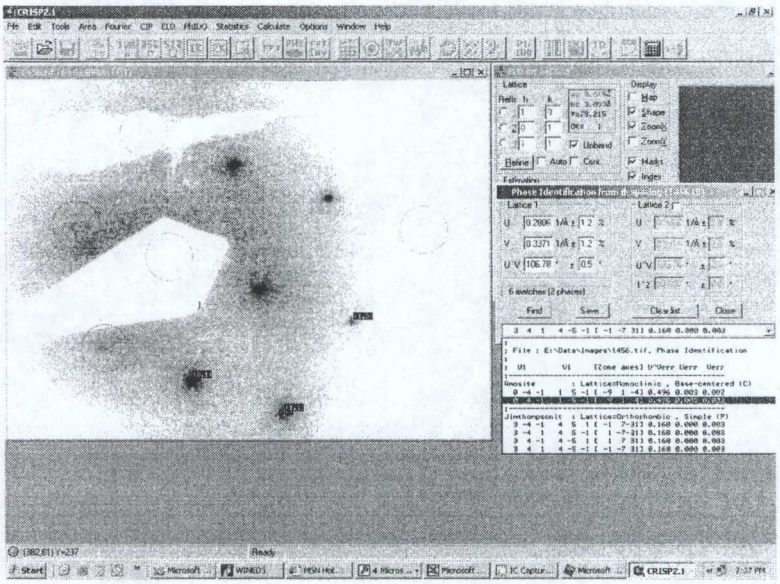
Values		Satisfied Conditions
(Ca,Na)@B	1.75	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.75	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.85	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

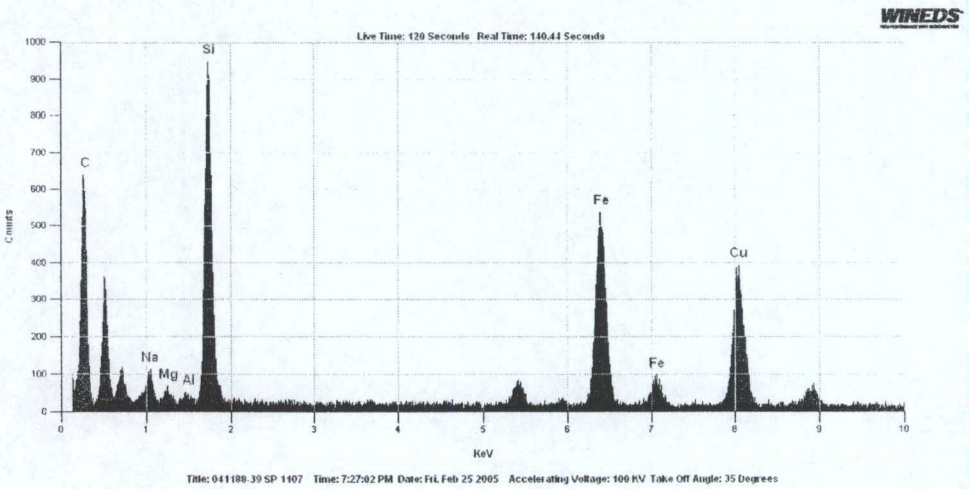
Mineral Analysis Program (Version 5.0)

AMOSITE - Zone Axis [9 1 4]

041188-39 Neg# J1456

Gatan Image 2/25/05





Quantitative Analysis Results - Standardless Analysis :

041188-39 SP 1107 Fri, Feb 25 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 33.95

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	2.25	Na2O	2.89	0.31	2.89
Mg	0.80	MgO	1.34	0.25	1.34
Al	0.14	Al2O3	0.30	0.15	0.30
Si	20.21	SiO2	50.37	1.12	50.37
Fe	13.62	Fe2O3	45.10	1.75	45.10
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	50.37	Si+4	8.0000	8.0000							
Al2O3	0.3	Al+3	0.0650	0.0000	**0.0650**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	45.1	Fe+3	0.0000			0.0000	0.0000				
MgO	1.34	Mg+2	0.3410			0.3410	**0.0000**				
MnO	0	Fe+2	6.0446			4.5940	**1.4506**				
CaO	0	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	2.89	Ca+2	0.0000					0.0000	0.0000		
K2O	0	Na+	0.9171					0.5494	**0.3677**	0.3677	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.0650**	C site	**1.4506**	B site	**0.3677285**	A site	**0**
			Total	**8**		**5.0000**		**0.5494**		**0.3677**	**0.0000**
			%Fill	**100**		**100**		**27.4702**			

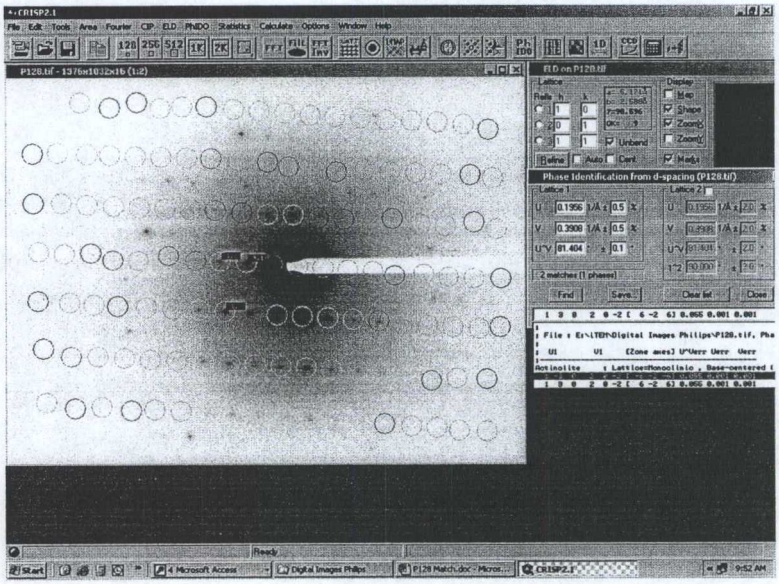
Prefix Sodic
Name grunerite, ferro-anthophyllite, ferroholmquistite, clinoferroholmquistite
Modifier none
Group Mg-Fe-Mn Amphibole

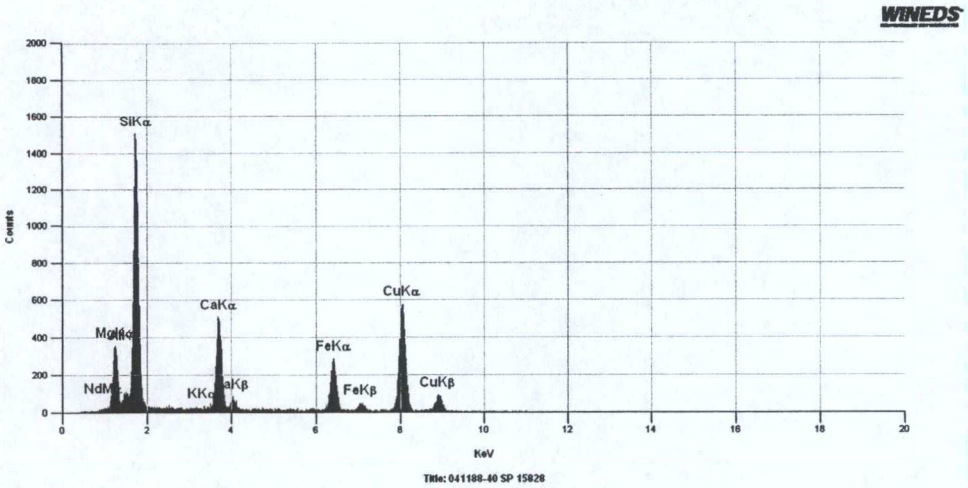
Sample # 041188-39-1107

Values		Satisfied Conditions
(Ca,Na)@B	0.55	(Ca,Na)@B < 1 and (Mg,Fe2,Mn)@B >= 0.95
(Mg,Fe2,Mn)@B	1.45	(Mg/(Mg+Fe2))< 0.5
Mg/(Mg+Fe2)	0.05	Si > 7
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
Zone Axis [3 1 3]
Neg# P128 Job# 041188-40
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-40 SP 15828 Fri, Feb 25 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 8.85
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.88	MgO	16.43	0.77	16.43
Al	0.38	Al2O3	0.88	0.20	0.88
Si	21.27	SiO2	58.69	1.43	58.69
K	0.10	K2O	0.21	0.19	0.21
Ca	4.56	CaO	11.75	0.60	11.75
Fe	3.28	Fe2O3	12.03	0.91	12.03
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.69	Si+4	8.0000	8.0000							
Al2O3	0.88	Al+3	0.1540	0.0000	**0.1540**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	12.03	Fe+3	0.0944			0.0944	0.0000				
MgO	16.43	Mg+2	3.4116			3.4116	**0.0000**				
MnO	0	Fe+2	1.3079			1.3079	**0.0000**				
CaO	11.75	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.7589					1.7589	0.0000		
K2O	0.21	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0486							0.0486	0.0000
Total	**99.99**		**Excess**	T site	**0.1540**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.9680**		**1.7589**		**0.0486**	**0.0000**
			%Fill	**100**		**99.3592**		**87.9437**			

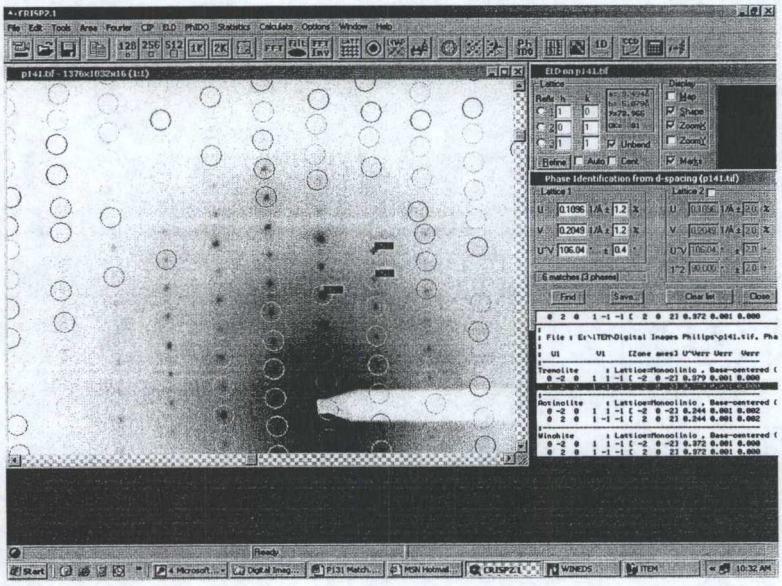
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

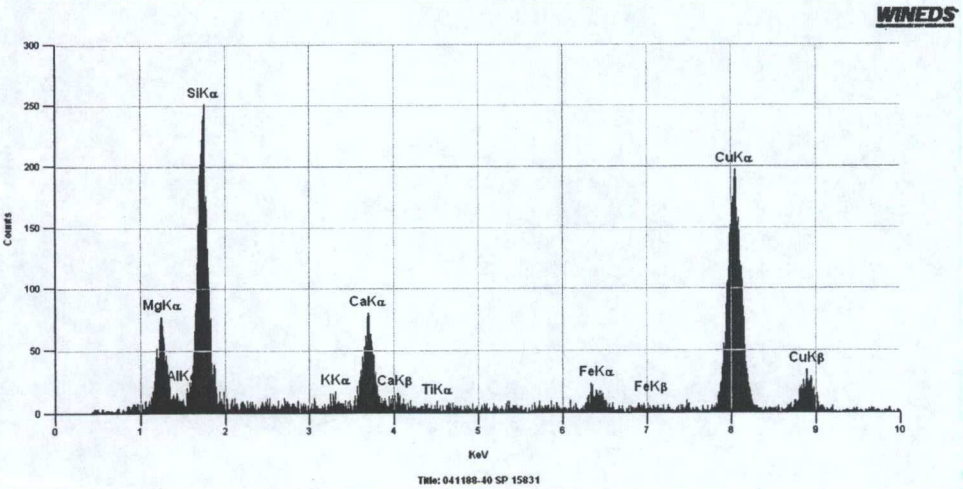
Sample # **041188-40-15828**

Values		Satisfied Conditions
(Ca,Na)@B	1.76	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.76	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.05	Si > 7.5
Mg/(Mg+Fe2)	0.72	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

TREMOLITE
Zone Axis [1 0 1]
Neg# P141 Job# 041188-40
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-40 SP 15831 Sat, Feb 26 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 16.32
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	29.01	Mg	24.40	1.57	24.40
Si	57.42	Si	55.81	2.05	55.81
K	0.97	K	1.32	0.64	1.32
Ca	10.77	Ca	14.94	1.24	14.94
Fe	1.83	Fe	3.53	1.29	3.53
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	55.81	Si+4	7.6415	7.6415							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.53	Fe+3	0.0655			0.0655	0.0000				
MgO	24.4	Mg+2	4.9806			4.9345	**0.0461**				
MnO	0	Fe+2	0.3314			0.0000	**0.3314**				
CaO	14.94	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.1915					1.6225	0.5690		
K2O	1.32	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.2305							0.2305	0.0000
Total	**100**		**Excess**	T site	**0.0000**	C site	**0.3775**	B site	**0.5689666**	A site	**0**
			Total	**7.6415**		**5.0000**		**1.6225**		**0.2305**	**0.0000**
			%Fill	**95.519**		**100**		**81.1263**			

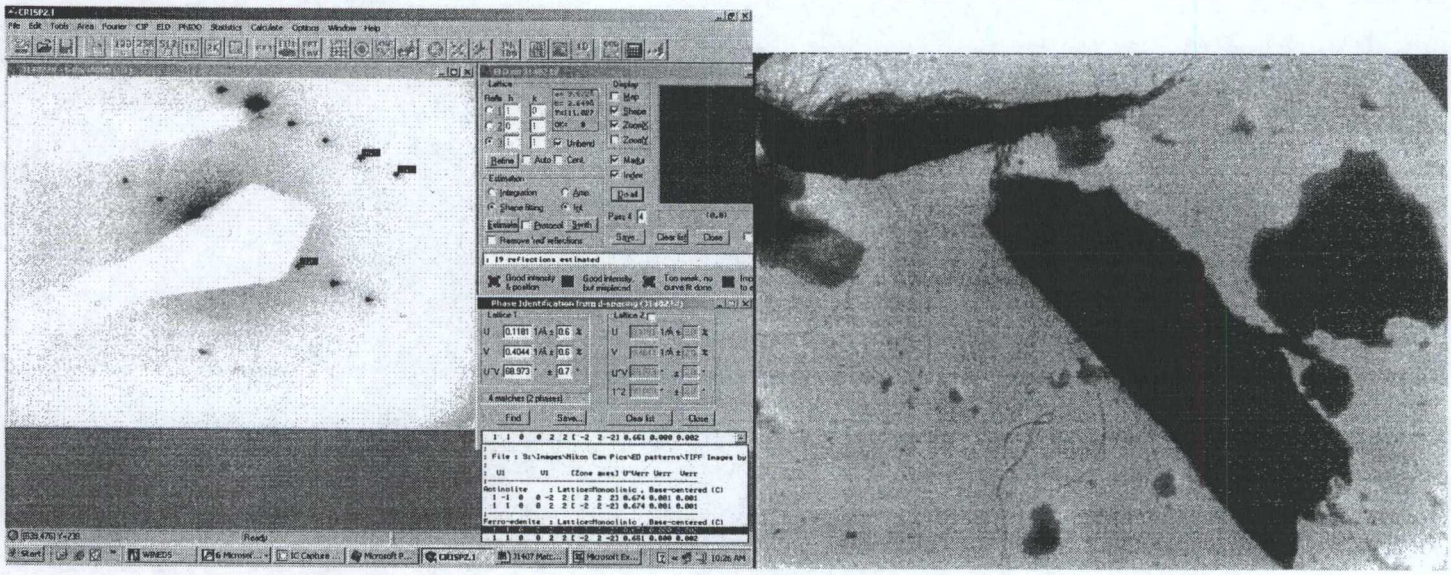
Prefix none
Name tremolite
Modifier none
Group Calcic Amphibole

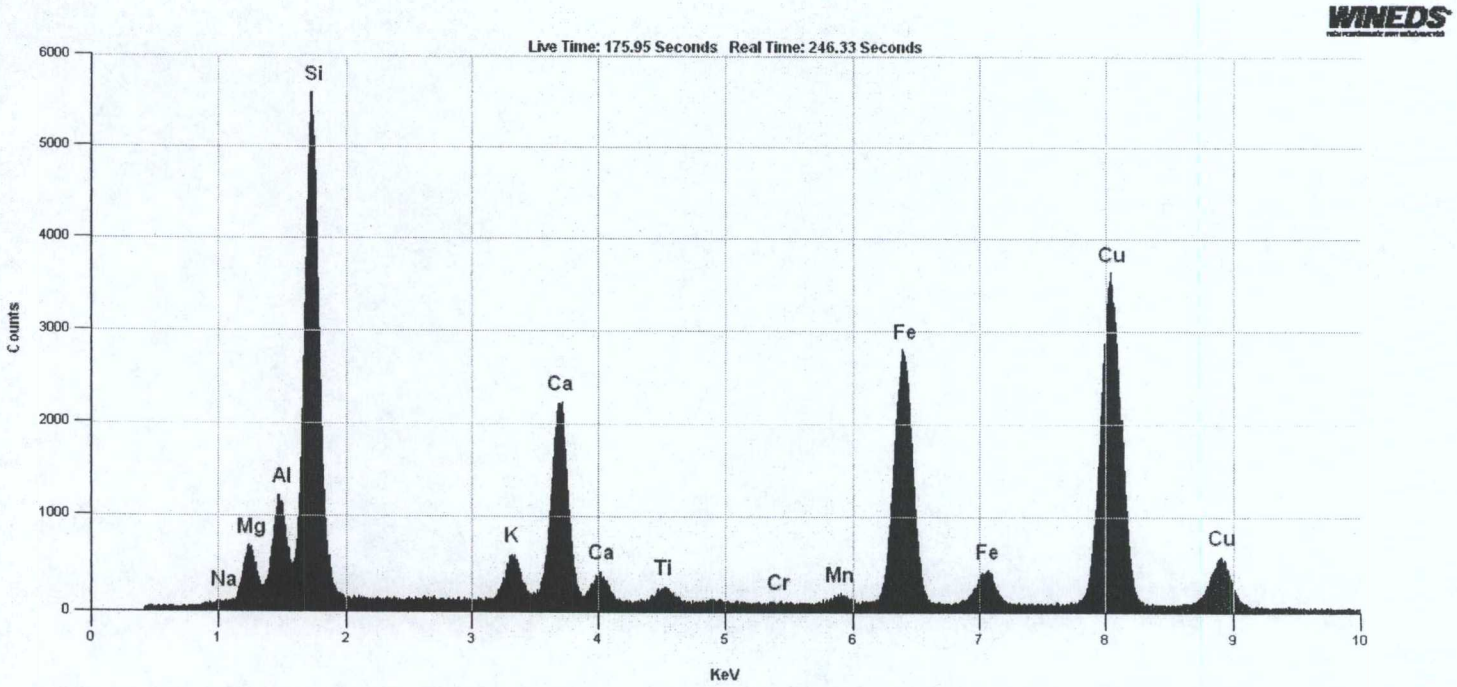
Sample # 041188-40-15831

Values		Satisfied Conditions
(Ca,Na)@B	1.62	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.62	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.23	Si > 7.5
Mg/(Mg+Fe2)	0.94	(Mg/(Mg+Fe2))>= 0.9
Si	7.64	

Mineral Analysis Program (Version 5.0)

FERRO-EDENITE
[1 1 1]
041188-40, Neg#J1482





Title: 041188-40 SP 15862 Time: 10:48:36 PM Date: Thu, Mar 03 2005 Accelerating Voltage: 100 KV Take Off Angle: 38 Degrees

Quantitative Analysis Results - Standardless Analysis :
Spectrum1 041188-40 SP 15862 Thu, Mar 03 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 4.65
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	3.65	MgO	6.29	0.24	6.29
Al	1.67	Al2O3	3.64	0.11	3.64
Si	18.93	SiO2	48.56	0.57	48.56
K	1.43	K2O	2.87	0.15	2.87
Ca	5.06	CaO	12.11	0.26	12.11
Fe	7.78	Fe2O3	26.53	0.54	26.53
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	48.56	Si+4	7.4460	7.4460							
Al2O3	3.64	Al+3	0.6578	0.5540	**0.1038**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	26.53	Fe+3	0.0306			0.0306	0.0000				
MgO	6.29	Mg+2	1.4379			1.4379	**0.0000**				
MnO	0	Fe+2	3.3676			3.3676	**0.0000**				
CaO	12.11	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.9893					1.9893	0.0000		
K2O	2.87	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.5614							0.5614	0.0000
Total	100		Excess	T site	0.1038	C site	0.0000	B site	0	A site	0
			Total	8		4.9398		1.9893		0.5614	0.0000
			%Fill	100		98.7963		99.467			

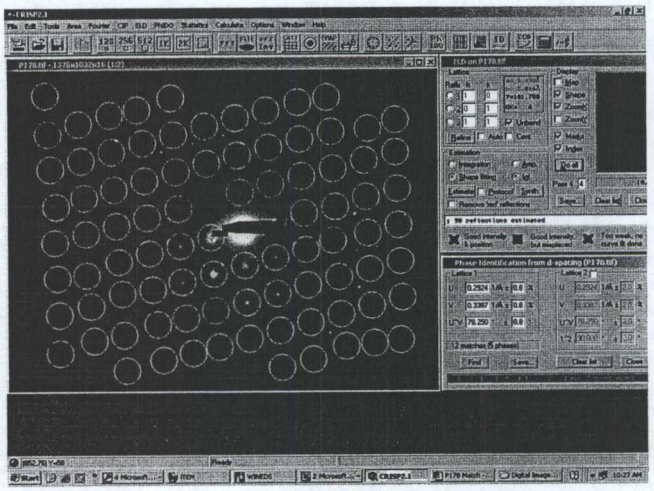
Prefix Potassic
Name ferro-edenite
Modifier none
Group Calcic Amphibole

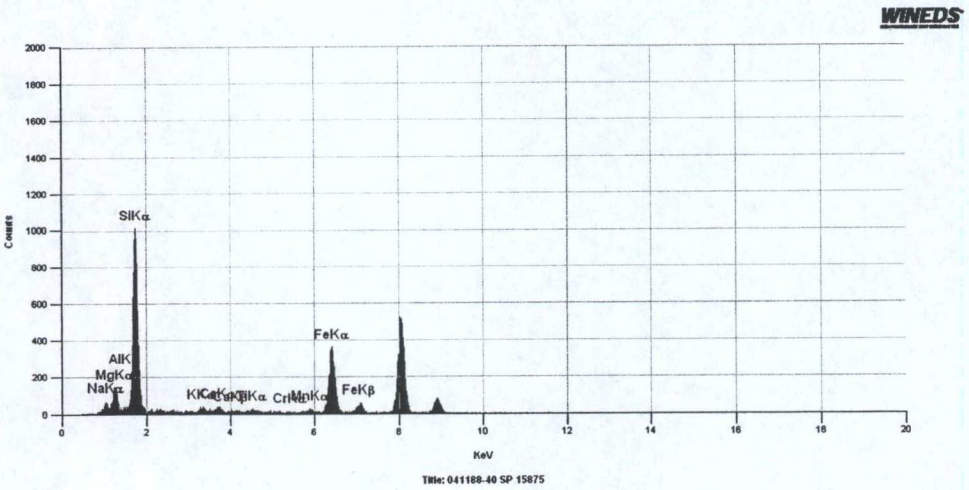
Sample # 041188-40-15862

Values		Satisfied Conditions
(Ca,Na)@B	1.99	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A >= 0.5
Ca@B	1.99	(Mg/(Mg+Fe2))< 0.5
(Na,K)@A	0.56	Si > 6.5
Mg/(Mg+Fe2)	0.30	
Si	7.45	

Mineral Analysis Program (Version 5.0)

Ferri-Winchite
Zone Axis [4 -1 -1]
Neg# P178 Job# 041188-40
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
Spectrum1 041188-40 SP 15875 Sun, Mar 06 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 7.81
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	3.14	Na2O	4.41	0.98	4.41
Mg	5.24	MgO	9.57	0.78	9.57
Si	22.59	SiO2	61.52	1.73	61.52
K	0.39	K2O	0.83	0.29	0.83
Ca	0.42	CaO	1.07	0.29	1.07
Fe	6.25	Fe2O3	22.60	1.40	22.60
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	61.52	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	22.6	Fe+3	1.1936			1.1936	0.0000				
MgO	9.57	Mg+2	2.1219			2.1219	**0.0000**				
MnO	0	Fe+2	1.4176			1.4176	**0.0000**				
CaO	1.07	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	4.41	Ca+2	0.2585					0.2585	0.0000		
K2O	0.83	Na+	1.3234					1.3234	**0.0000**	0.0000	0.0000
		K+	0.2062							0.2062	0.0000
Total	**100**		**Excess**	T site	**0.0000**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.7331**		**1.5819**		**0.2062**	**0.0000**
			%Fill	**100**		**94.662**		**79.0974**			

Prefix Ferri
Name winchite
Modifier none
Group Sodic-Calcic Amphibole

Sample # 041188-40-15875

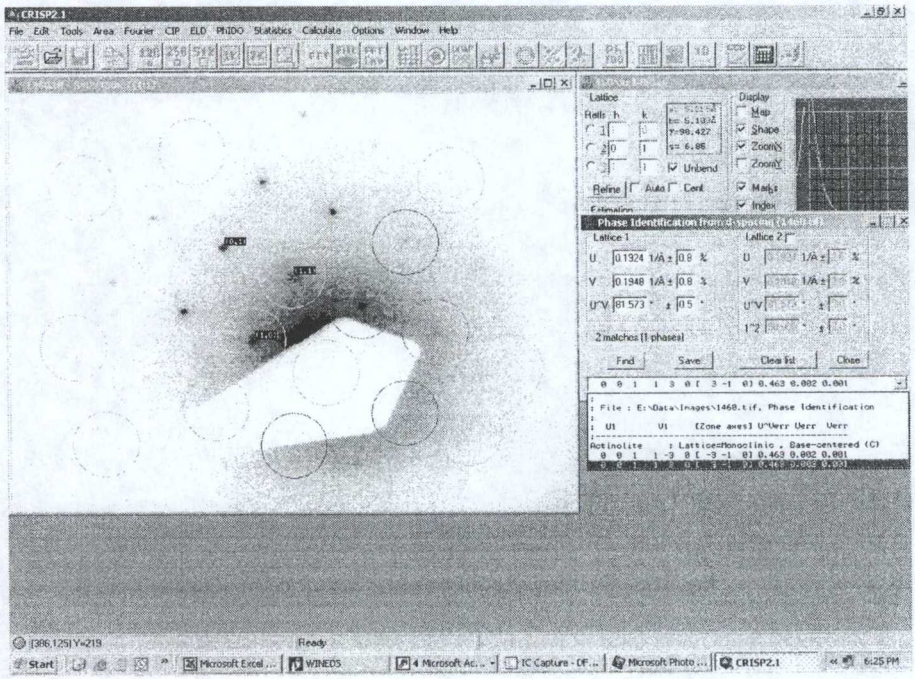
Values		Satisfied Conditions
(Ca,Na)@B	1.58	(Ca,Na)@B >= 1 and 0.5 <= Na@B < 1.5
Na@B	1.32	(Na,K)@A < 0.5
Na,K)@A	0.21	(Mg/(Mg+Fe2))>= 0.5
Mg/(Mg+Fe2)	0.60	Si > 7.5
Si	8.00	

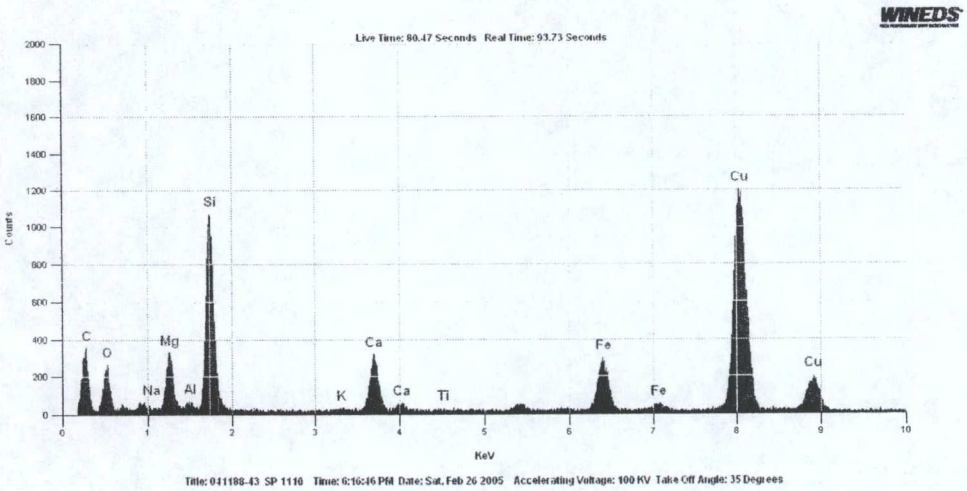
Mineral Analysis Program (Version 5.0)

ACTINOLITE - Zone Axis [3 1 0]

041188-43 Neg# J1460

Gatan Image 2/20/05





Quantitative Analysis Results - Standardless Analysis :

041188-43 SP 1110 Sat, Feb 26 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 99.66

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.26	Na2O	0.36	0.27	0.36
Mg	6.46	MgO	11.52	0.47	11.52
Al	0.23	Al2O3	0.52	0.17	0.52
Si	20.41	SiO2	54.22	1.23	54.22
Ca	5.11	CaO	12.68	0.66	12.68
Fe	5.86	Fe2O3	20.70	1.32	20.70
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	54.22	Si+4	7.8949	7.8949							
Al2O3	0.52	Al+3	0.0892	0.0892	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	20.7	Fe+3	0.0680			0.0680	0.0000				
MgO	11.52	Mg+2	2.5007			2.5007	**0.0000**				
MnO	0	Fe+2	2.4447			2.4312	**0.0135**				
CaO	12.68	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0.36	Ca+2	1.9780					1.9780	0.0000		
K2O	0	Na+	0.1016					0.0085	**0.0931**	0.0931	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.0000**	C site	**0.0135**	B site	**0.0931329**	A site	**0**
			Total	**7.9841**		**5.0000**		**1.9865**		**0.0931**	**0.0000**
			%Fill	**99.802**		**100**		**99.3251**			

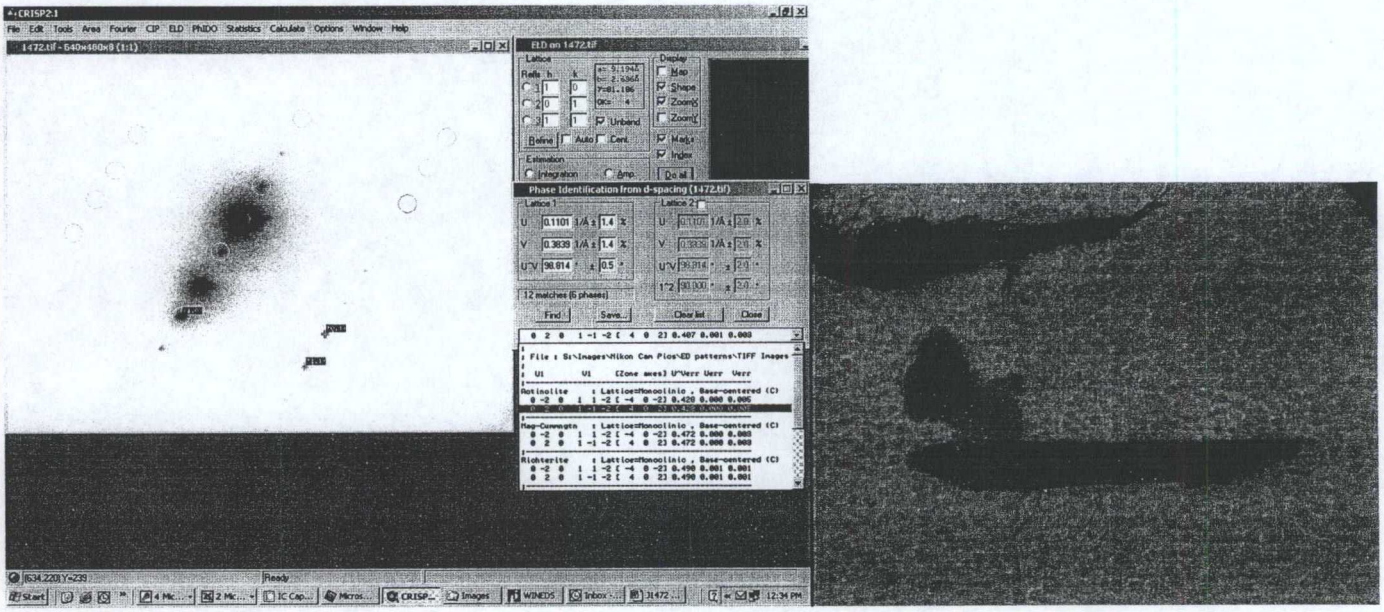
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

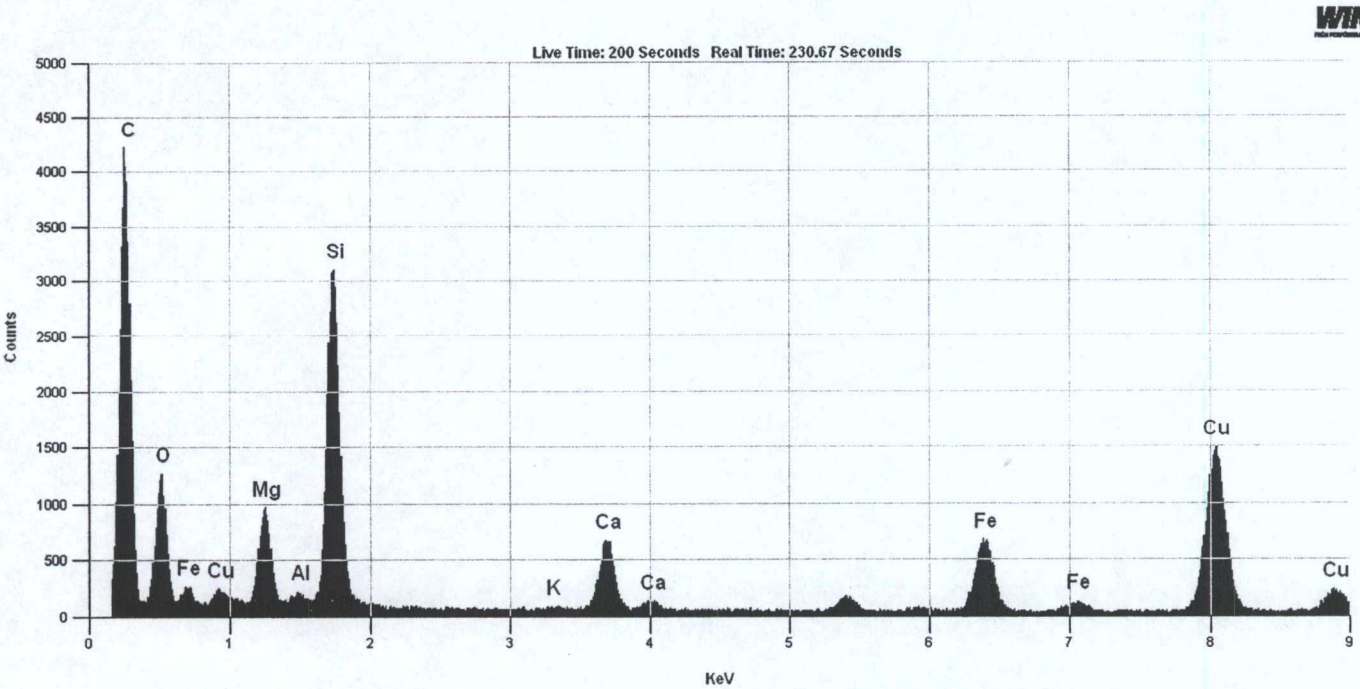
Sample # **041188-43-1110**

Values		Satisfied Conditions
(Ca,Na)@B	1.99	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.01	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.98	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.09	Si > 7.5
Mg/(Mg+Fe2)	0.51	(Mg/(Mg+Fe2))< 0.9
Si	7.89	

Mineral Analysis Program (Version 5.0)

Actinolite
[2 0 1]
041188-44, Neg#J1472





Title: 041188-44-SP1127 Time: 12:00:55 PM Date: Fri, Mar 04 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-44-SP1127 Fri, Mar 04 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 489.72
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.25	MgO	11.38	0.35	11.38
Al	0.34	Al2O3	0.77	0.13	0.77
Si	22.05	SiO2	59.80	0.87	59.80
K	0.10	K2O	0.20	0.13	0.20
Ca	4.34	CaO	10.99	0.41	10.99
Fe	4.68	Fe2O3	16.85	0.69	16.85

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	59.8	Si+4	8.0000	8.0000							
Al2O3	0.77	Al+3	0.1654	0.0000	**0.1654**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	16.85	Fe+3	0.0421			0.0421	0.0000				
MgO	11.38	Mg+2	2.4763			2.4763	**0.0000**				
MnO	0	Fe+2	2.0107			2.0107	**0.0000**				
CaO	10.99	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.7209					1.7209	0.0000		
K2O	0.2	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0771							0.0771	0.0000
Total	**99.99**		**Excess**	T site	**0.1654**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.6946**		**1.7209**		**0.0771**	**0.0000**
			%Fill	**100**		**93.8911**		**86.0436**			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # **041188-44-1127**

Values		Satisfied Conditions
(Ca,Na)@B	1.72	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.72	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.08	Si > 7.5
Mg/(Mg+Fe2)	0.55	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

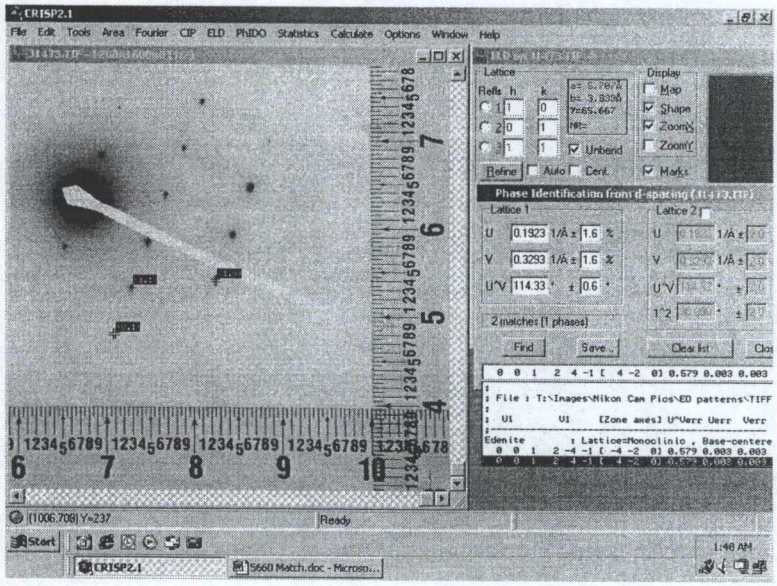
Mineral Analysis Program (Version 5.0)

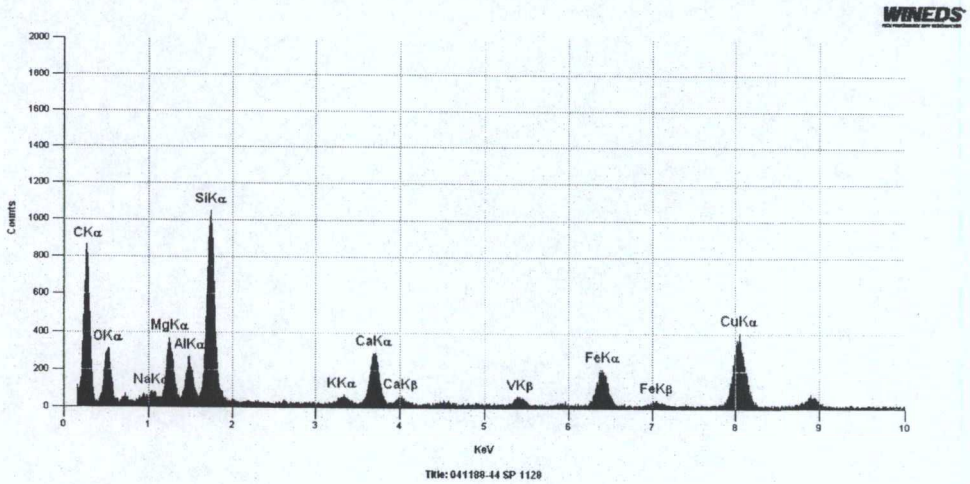
EDENITE

Zone Axis [2 1 0]

Neg# J1473 Job# 041188-44

JEOL 80cm Image





Quantitative Analysis Results - Standardless Analysis :

041188-44 SP 1128 Fri, Mar 04 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 193.50

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	1.29	Na2O	1.82	0.35	1.82
Mg	6.92	MgO	12.68	0.52	12.68
Al	2.08	Al2O3	4.83	0.31	4.83
Si	19.84	SiO2	54.19	1.28	54.19
K	0.46	K2O	0.98	0.24	0.98
Ca	5.00	CaO	12.75	0.66	12.75
Fe	3.51	Fe2O3	12.75	0.97	12.75
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	54.19	Si+4	7.6667	7.6667							
Al2O3	4.83	Al+3	0.8053	0.3333	**0.4720**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	12.75	Fe+3	0.0136			0.0136	0.0000				
MgO	12.68	Mg+2	2.6744			2.6744	**0.0000**				
MnO	0	Fe+2	1.4933			1.4933	**0.0000**				
CaO	12.75	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	1.82	Ca+2	1.9325					1.9325	0.0000		
K2O	0.98	Na+	0.4992					0.0675	**0.4317**	0.4317	0.0000
		K+	0.1769							0.1769	0.0000
Total	**100**		**Excess**	T site	**0.4720**	C site	**0.0000**	B site	**0.4317042**	A site	**0**
			Total	**8**		**4.6533**		**2.0000**		**0.6086**	**0.0000**
			%Fill	**100**		**93.0662**		**100**			

Prefix none
Name edenite
Modifier none
Group Calcic Amphibole

Sample # 041188-44-1128

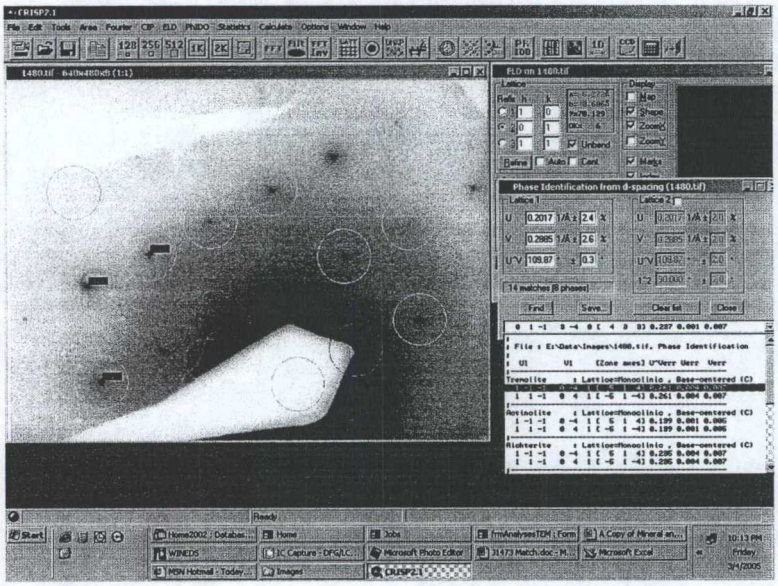
Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.07	Ca@B >= 1.5 and (Na,K)@A >= 0.5
Ca@B	1.93	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.61	Si > 6.5
Mg/(Mg+Fe2)	0.64	
Si	7.67	

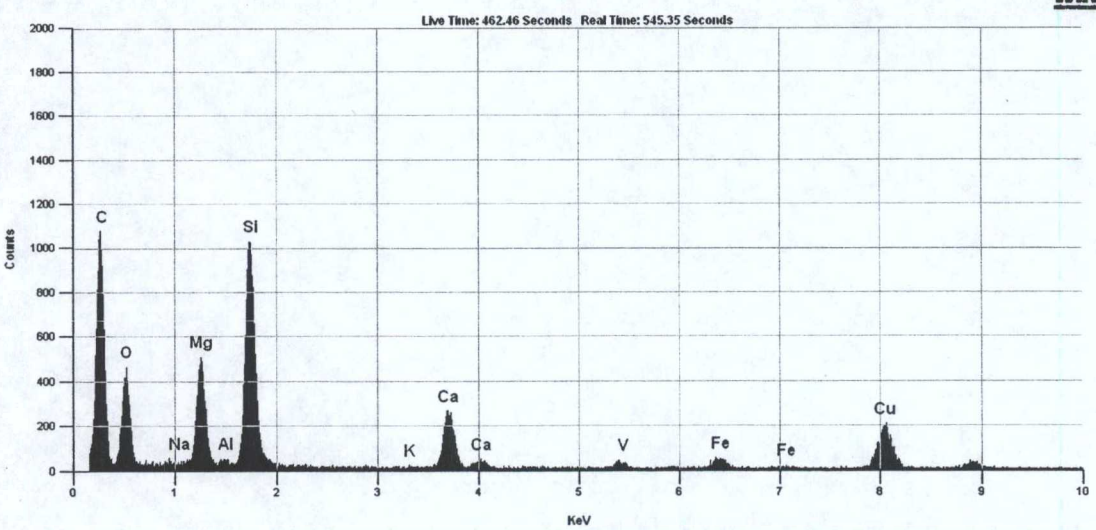
Mineral Analysis Program (Version 5.0)

TREMOLITE - Zone Axis [5 1 4]

041188-44 Neg# J1480

Gatan Image 3/4/05





Quantitative Analysis Results - Standardless Analysis :

041188-44 SP 1133 Fri, Mar 04 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 320.64

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.86	MgO	20.72	0.67	20.72
Al	0.15	Al2O3	0.37	0.21	0.37
Si	21.81	SiO2	62.02	1.46	62.02
Ca	5.19	CaO	13.78	0.74	13.78
Fe	0.83	Fe2O3	3.12	0.61	3.12
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.02	Si+4	8.0000	8.0000							
Al2O3	0.37	Al+3	0.0871	0.0000	**0.0871**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.12	Fe+3	0.0217			0.0217	0.0000				
MgO	20.72	Mg+2	4.1812			4.1812	**0.0000**				
MnO	0	Fe+2	0.3848			0.3848	**0.0000**				
CaO	13.78	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.0160					2.0000	0.0160		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100.01**		**Excess**	T site	**0.0871**	C site	**0.0000**	B site	**0.0160433**	A site	**0**
			Total	**8**		**4.6748**		**2.0000**		**0.0000**	**0.0000**
			%Fill	**100**		**93.497**		**100**			

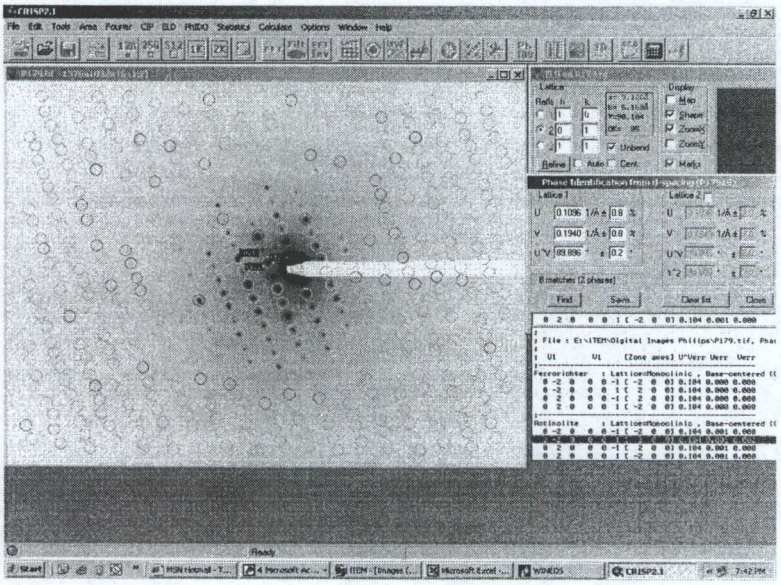
Prefix none
Name tremolite
Modifier none
Group Calcic Amphibole

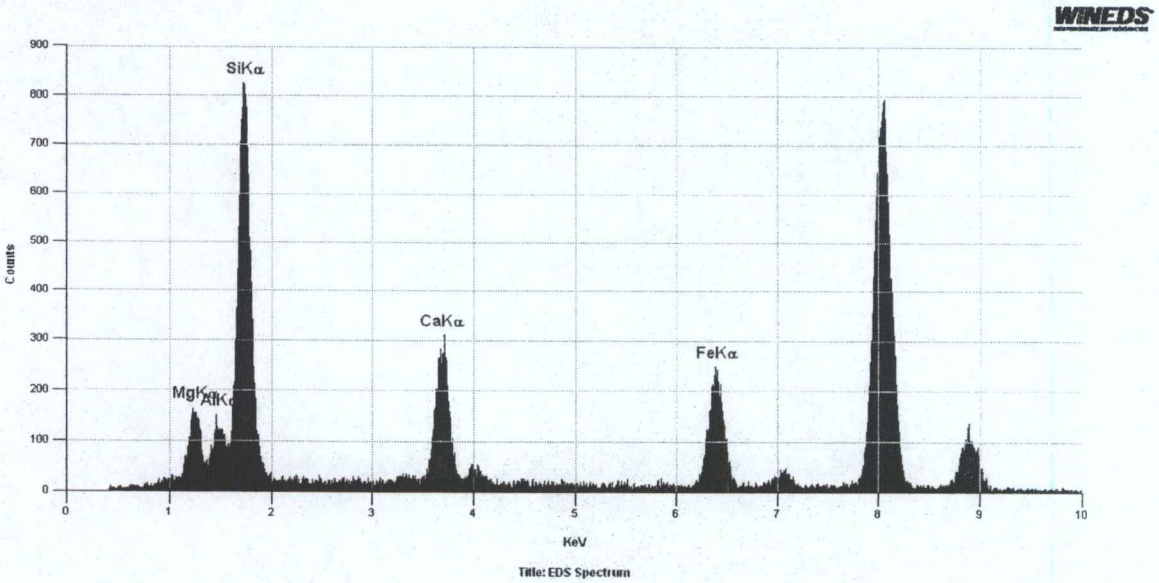
Sample # **041188-44-1133**

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.92	(Mg/(Mg+Fe2))>= 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
Zone Axis [1 0 0]
Neg# P179 Job# 041188-45
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-45 SP 15876 Mon, Mar 07 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 12.72
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.37	MgO	11.54	1.08	11.54
Al	1.07	Al2O3	2.44	0.36	2.44
Si	20.93	SiO2	56.49	1.99	56.49
Ca	4.95	CaO	12.47	0.83	12.47
Fe	4.76	Fe2O3	17.07	1.42	17.07
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	56.49	Si+4	8.0000	8.0000							
Al2O3	2.44	Al+3	0.4091	0.0000	**0.4091**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.07	Fe+3	0.0191			0.0191	0.0000				
MgO	11.54	Mg+2	2.4432			2.4432	**0.0000**				
MnO	0	Fe+2	2.0059			2.0059	**0.0000**				
CaO	12.47	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.8970					1.8970	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100.01**		**Excess**	T site	**0.4091**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.8773**		**1.8970**		**0.0000**	**0.0000**
			%Fill	**100**		**97.5456**		**94.8507**			

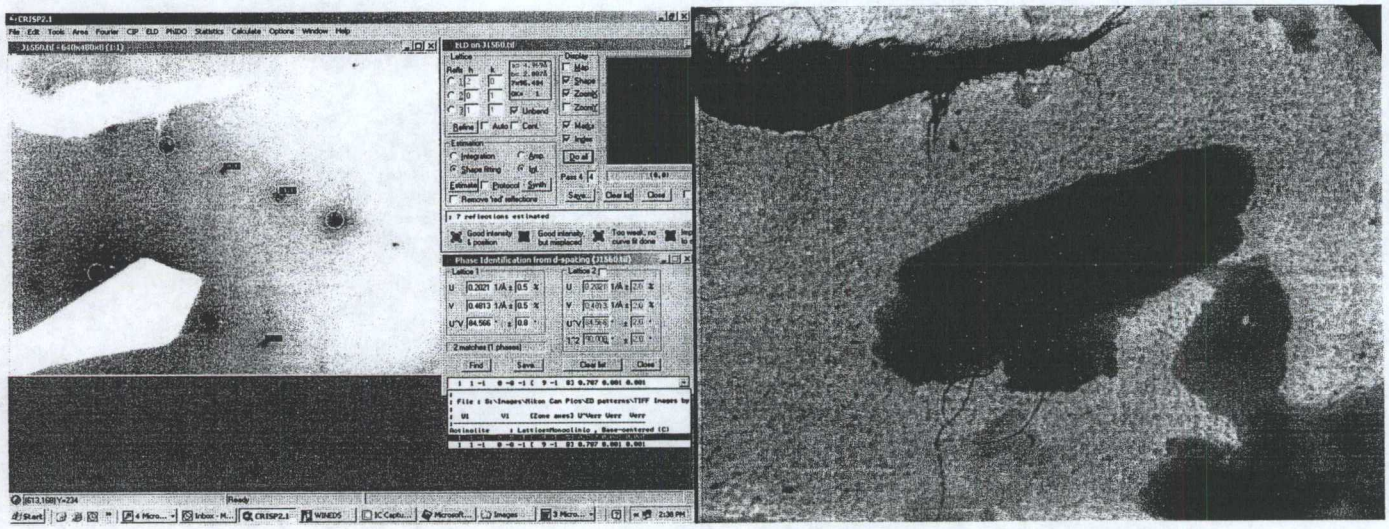
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

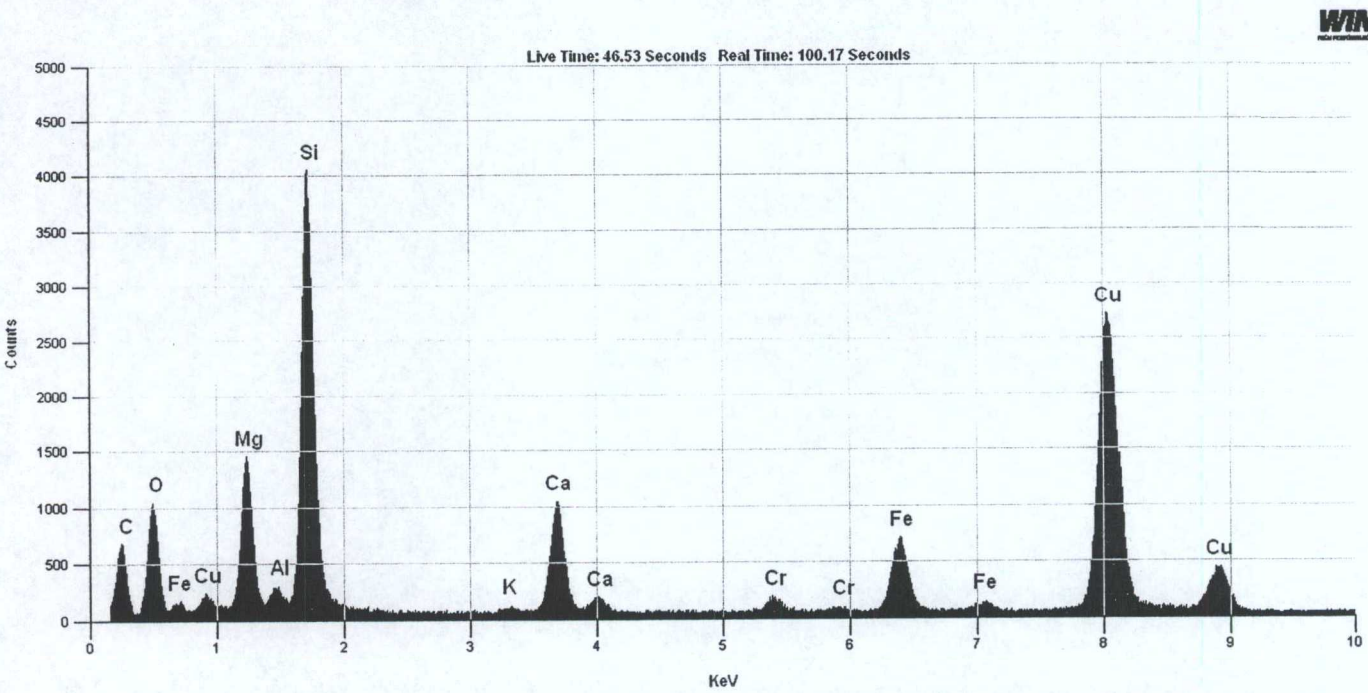
Sample # **041188-45-15876**

Values		Satisfied Conditions
(Ca,Na)@B	1.90	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.90	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.55	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
[9 1 8]
041188-47, Neg#J1560





Title: 041188-47-SP1194 Time: 2:11:20 PM Date: Wed, Mar 23 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-47-SP1194 Wed, Mar 23 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 157.62
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.44	MgO	13.58	0.34	13.58
Al	0.47	Al2O3	1.08	0.12	1.08
Si	21.12	SiO2	57.45	0.82	57.45
K	0.19	K2O	0.41	0.11	0.41
Ca	5.31	CaO	13.49	0.42	13.49
Fe	3.87	Fe2O3	13.99	0.60	13.99
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.45	Si+4	8.0000	8.0000							
Al2O3	1.08	Al+3	0.1870	0.0000	**0.1870**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	13.99	Fe+3	0.0199			0.0199	0.0000				
MgO	13.58	Mg+2	2.8680			2.8680	**0.0000**				
MnO	0	Fe+2	1.6404			1.6404	**0.0000**				
CaO	13.49	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.0475					2.0000	0.0475		
K2O	0.41	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0822							0.0822	0.0000
Total	**100**		**Excess**	T site	**0.1870**	C site	**0.0000**	B site	**0.0474536**	A site	**0**
			Total	**8**		**4.7154**		**2.0000**		**0.0822**	**0.0000**
			%Fill	**100**		**94.3077**		**100**			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # 041188-47-1194

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.08	Si > 7.5
Mg/(Mg+Fe2)	0.64	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

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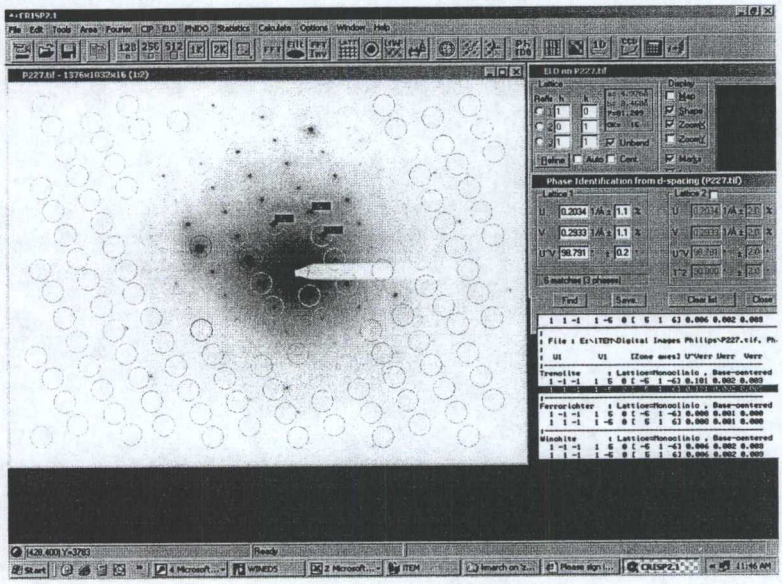
TREMOLITE

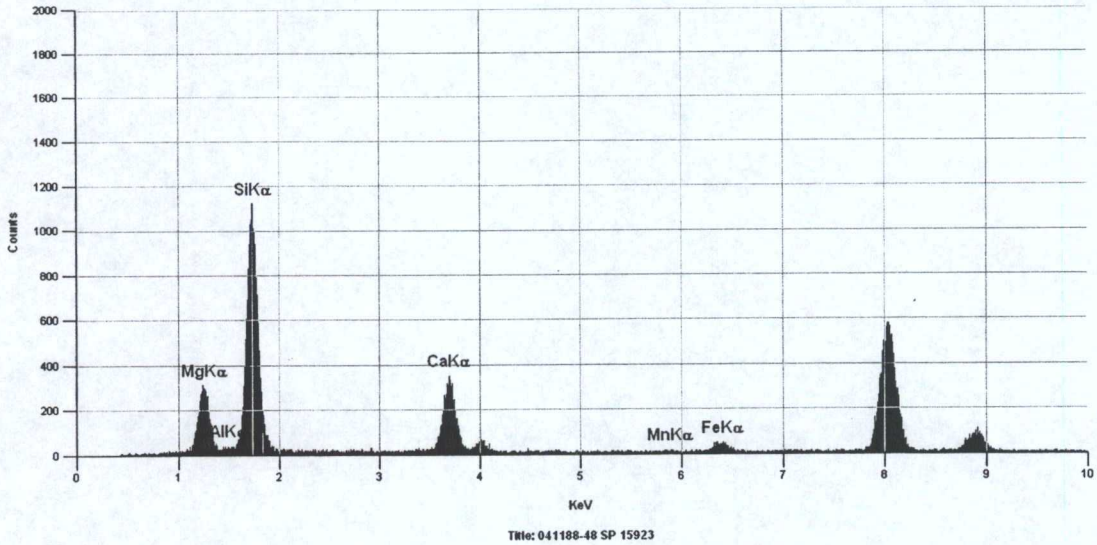
Zone Axis [5 1 6]

Neg# P227 Job# 041188-48

3/23/05 iTEM Image



WINEDS



Quantitative Analysis Results - Standardless Analysis :
Spectrum8 041188-48 SP 15923 Wed, Mar 23 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 7.09
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.87	MgO	20.91	1.09	20.91
Si	22.64	SiO2	64.96	1.75	64.96
Ca	4.37	CaO	11.71	0.71	11.71
Fe	0.63	Fe2O3	2.42	0.55	2.42
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	64.96	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	2.42	Fe+3	0.0499			0.0499	0.0000				
MgO	20.91	Mg+2	4.2697			4.2697	**0.0000**				
MnO	0	Fe+2	0.3679			0.3679	**0.0000**				
CaO	11.71	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.7778					1.7778	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.0000**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.6874**		**1.7778**		**0.0000**	**0.0000**
			%Fill	**100**		**93.7489**		**88.8902**			

Prefix none
Name tremolite
Modifier none
Group Calcic Amphibole

Sample # 041188-48-15923

Values		Satisfied Conditions
(Ca,Na)@B	1.78	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.78	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.92	(Mg/(Mg+Fe2))>= 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

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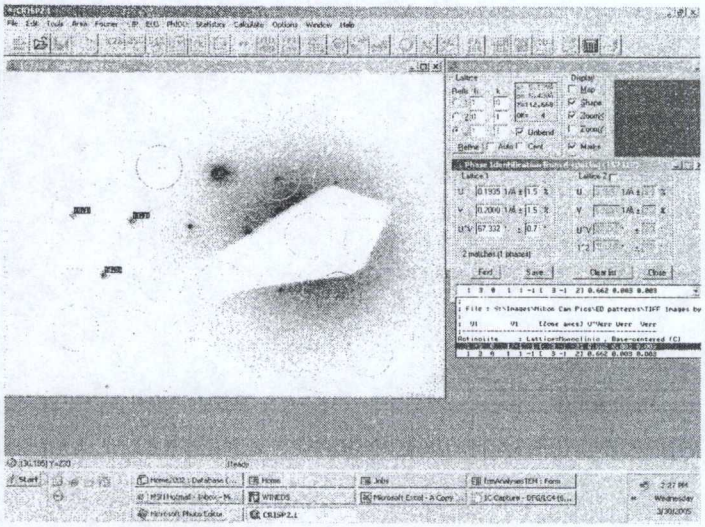
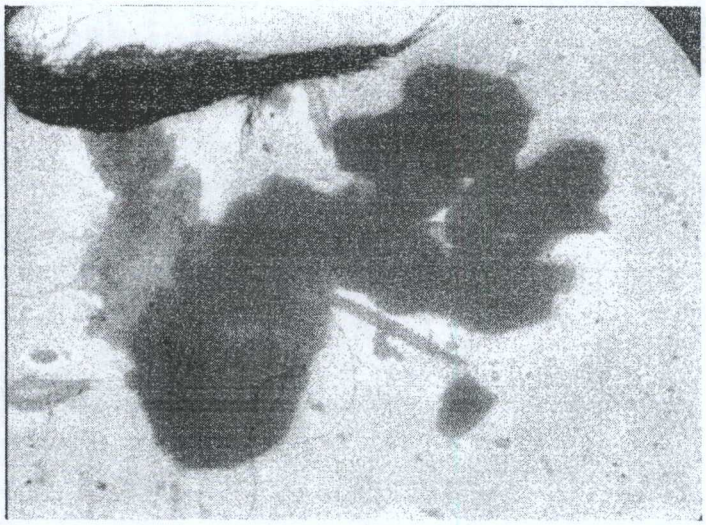
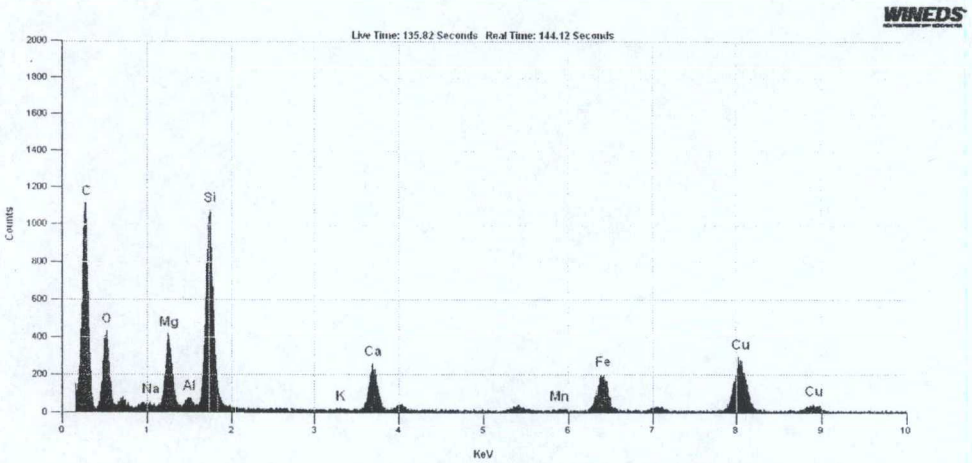
ACTINOLITE - Zone Axis [5 1 6]
Neg# J1573 Job# 041188-48
JEOL 1200EX - Gatan Image







Quantitative Analysis Results - Standardless Analysis :
041188-48 SP 1207 Wed, Mar 30 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 237.79
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.38	Na2O	0.54	0.32	0.54
Mg	8.20	MgO	15.08	0.56	15.08
Al	0.36	Al2O3	0.84	0.21	0.84
Si	21.19	SiO2	58.09	1.35	58.09
K	0.11	K2O	0.24	0.17	0.24
Ca	4.36	CaO	11.15	0.63	11.15
Fe	3.86	Fe2O3	14.05	1.03	14.05
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.09	Si+4	8.0000	8.0000							
Al2O3	0.84	Al+3	0.1474	0.0000	**0.1474**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	14.05	Fe+3	0.0944			0.0944	0.0000				
MgO	15.08	Mg+2	3.1615			3.1615	**0.0000**				
MnO	0	Fe+2	1.5546			1.5546	**0.0000**				
CaO	11.15	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0.54	Ca+2	1.6842					1.6842	0.0000		
K2O	0.24	Na+	0.1688					0.1688	**0.0000**	0.0000	0.0000
		K+	0.0527							0.0527	0.0000
Total	**99.99**		**Excess**	T site	**0.1474**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.9579**		**1.8530**		**0.0527**	**0.0000**
Prefix	none		**%Fill**	**100**		**99.1585**		**92.6484**			
Name	actinolite										
Modifier	none										
Group	**Calcic Amphibole**										

Sample # **041188-48-1207**

Values		**Satisfied Conditions**
(Ca,Na)@B	**1.85**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.17**	**Ca@B >= 1.5 and (Na,K)@A < 0.5**
Ca@B	**1.68**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.05**	**Si > 7.5**
Mg/(Mg+Fe2)	**0.67**	**(Mg/(Mg+Fe2))< 0.9**
Si	**8.00**	

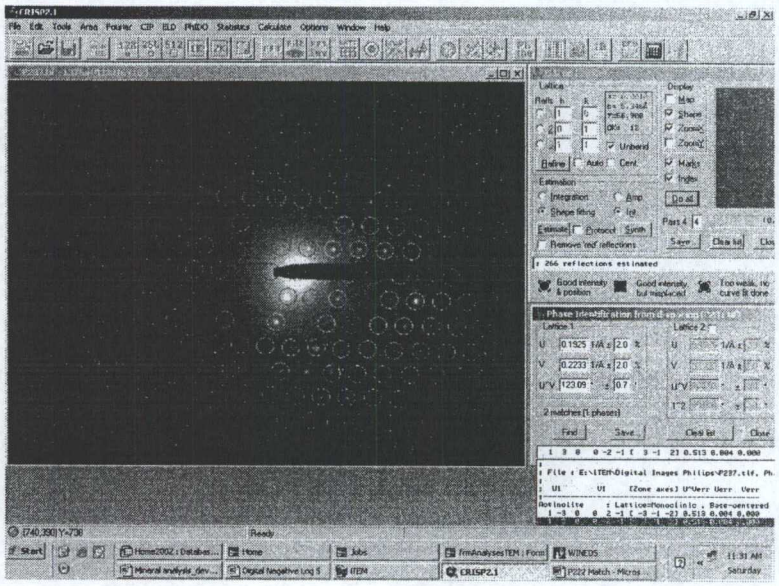
Mineral Analysis Program (Version 5.0)

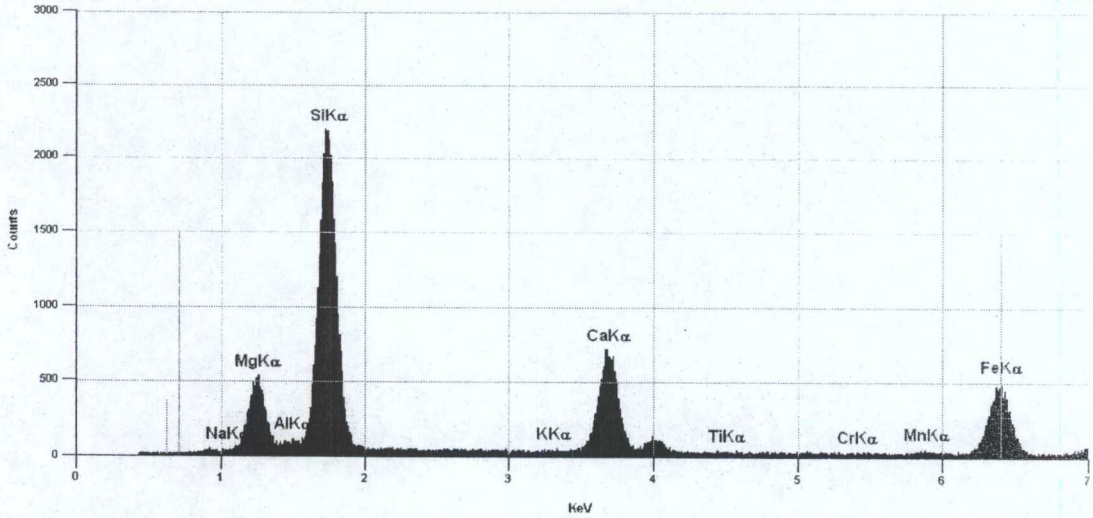
Actinolite

Zone Axis [3 -1 2]

Neg# P237 Job# 041188-49

iTEM Image





Quantitative Analysis Results - Standardless Analysis :
Spectrum8 041188-49 SP 15939 Sat, Mar 26 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 10.05
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.69	MgO	16.03	0.64	16.03
Al	0.07	Al2O3	0.17	0.14	0.17
Si	21.47	SiO2	59.02	1.19	59.02
Ca	4.42	CaO	11.34	0.49	11.34
Fe	3.68	Fe2O3	13.44	0.75	13.44
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	59.02	Si+4	8.0000	8.0000							
Al2O3	0.17	Al+3	0.0467	0.0000	**0.0467**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	13.44	Fe+3	0.2638			0.2638	0.0000				
MgO	16.03	Mg+2	3.3525			3.3525	**0.0000**				
MnO	0	Fe+2	1.3012			1.3012	**0.0000**				
CaO	11.34	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.7144					1.7144	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.0467**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.9643**		**1.7144**		**0.0000**	**0.0000**
			%Fill	**100**		**99.2857**		**85.7209**			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # **041188-49-15939**

Values		Satisfied Conditions
(Ca,Na)@B	1.71	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.71	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.72	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

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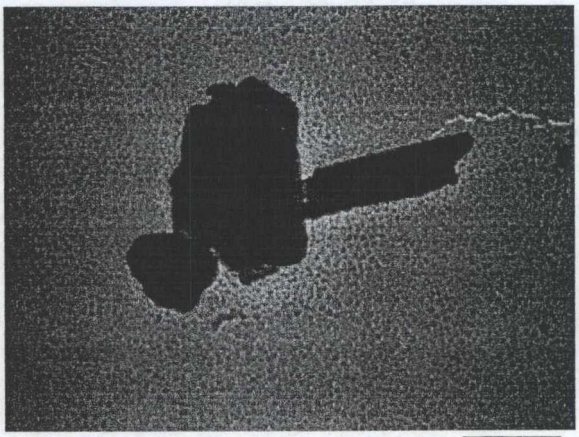
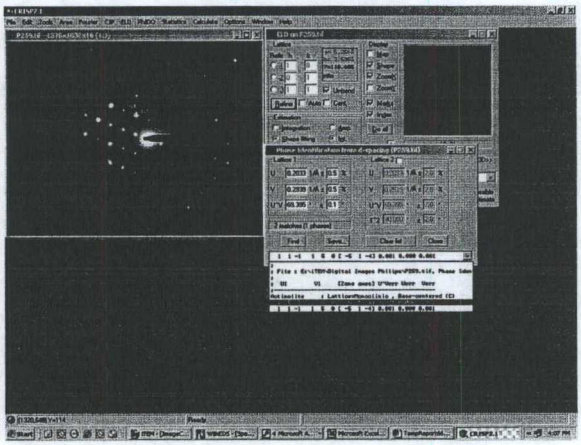
Actinolite

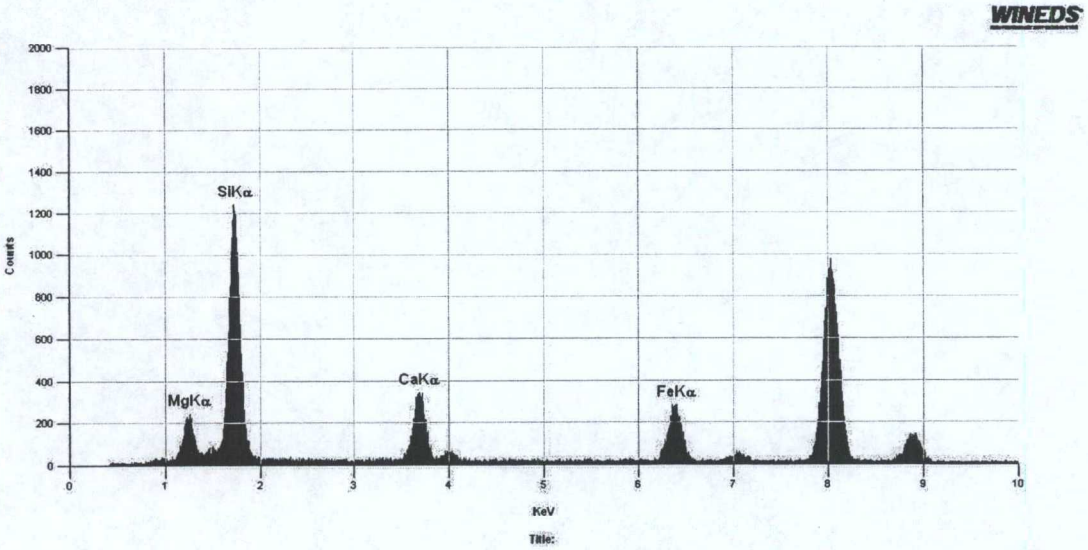
Neg#[259]; [Job# 041188-86]
[4/1/05] iTEM Image
Zone Axis [5 1 4]



13900 : 1

1µm





Quantitative Analysis Results - Standardless Analysis :
04188-86 EDS#15962 Fri, Apr 01 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 13.08

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.93	MgO	12.71	1.01	12.71
Si	22.42	SiO2	61.35	1.91	61.35
Ca	4.35	CaO	11.11	0.70	11.11
Fe	4.08	Fe2O3	14.83	1.17	14.83
<Total>	100.00		100.00		100.00

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	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	61.35	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	14.83	Fe+3	0.0625			0.0625	0.0000				
MgO	12.71	Mg+2	2.8120			2.8120	**0.0000**				
MnO	0	Fe+2	1.8057			1.8057	**0.0000**				
CaO	11.11	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.7833					1.7833	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.0000**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.6802**		**1.7833**		**0.0000**	**0.0000**
			%Fill	**100**		**93.6047**		**89.1627**			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # **041188-86-15962**

Values		Satisfied Conditions
(Ca,Na)@B	1.78	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.78	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.61	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

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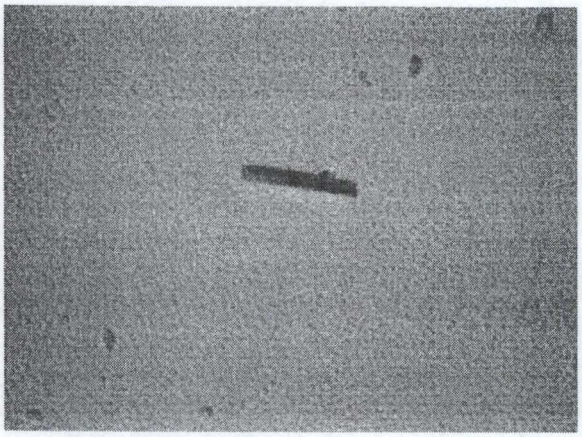
TREMOLITE

Neg#[260]; [Job# 041188-86]
[4/1/05] iTEM Image
Zone Axis [5 1 4]



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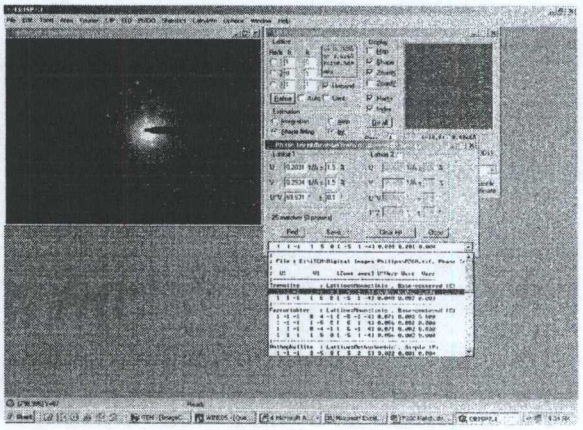
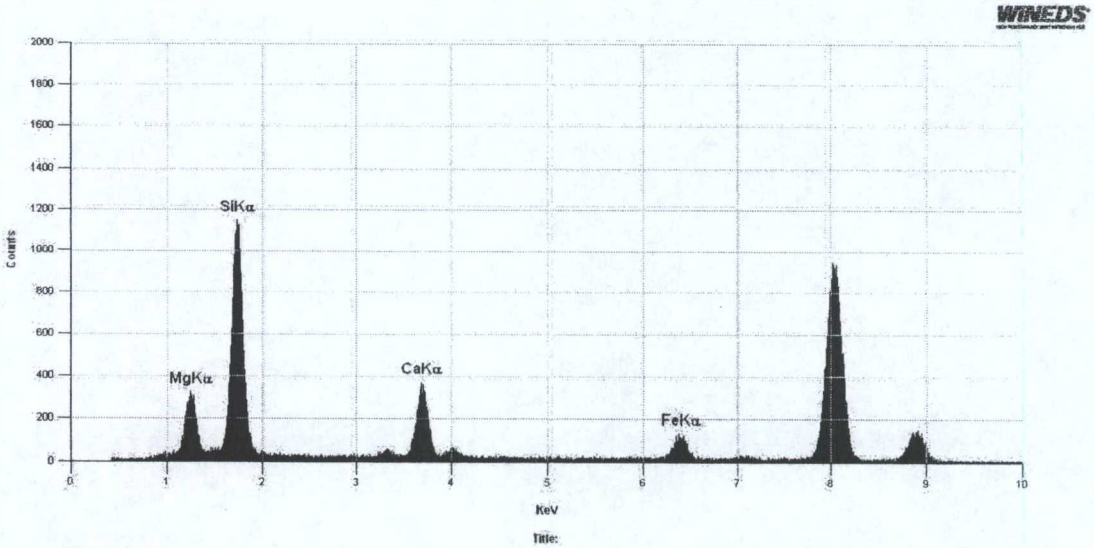
1µm





Quantitative Analysis Results - Standardless Analysis :
041188-86 EDS# 15963 Fri, Apr 01 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 9.72

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.79	MgO	18.51	1.19	18.51
Si	22.25	SiO2	62.68	1.89	62.68
Ca	4.50	CaO	11.83	0.71	11.83
Fe	1.87	Fe2O3	6.99	0.82	6.99
<Total>	100.00		100.00		100.00

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	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.68	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	6.99	Fe+3	0.0453			0.0453	0.0000				
MgO	18.51	Mg+2	3.8524			3.8524	**0.0000**				
MnO	0	Fe+2	0.8610			0.8610	**0.0000**				
CaO	11.83	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.8086					1.8086	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100.01**		**Excess**	T site	**0.0000**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.7586**		**1.8086**		**0.0000**	**0.0000**
			%Fill	**100**		**95.1729**		**90.4291**			

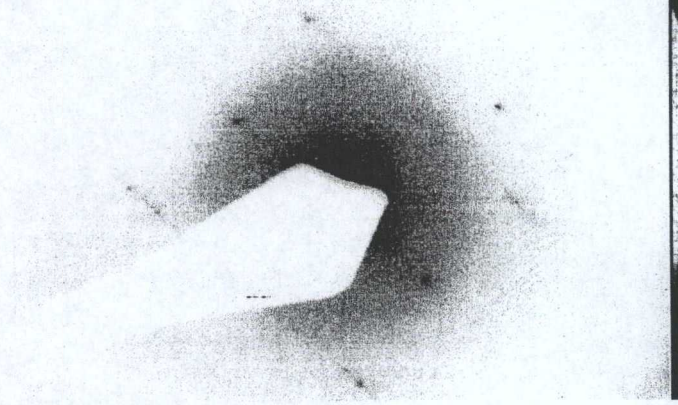
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

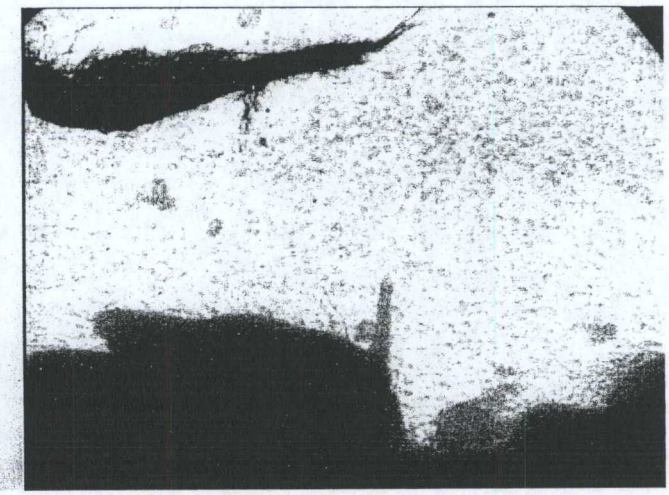
Sample # **0401188-86-15963**

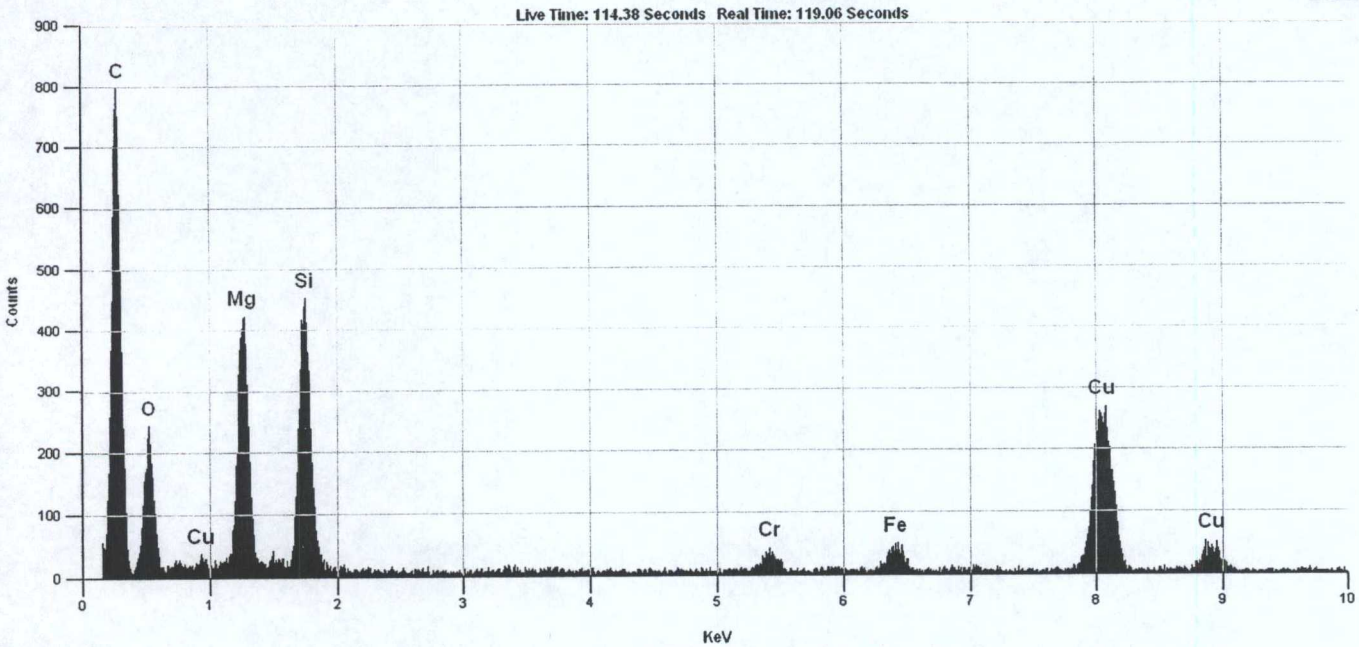
Values		Satisfied Conditions
(Ca,Na)@B	1.81	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.81	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.82	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

CHRYSOTILE
041188-98, Neg#J1563



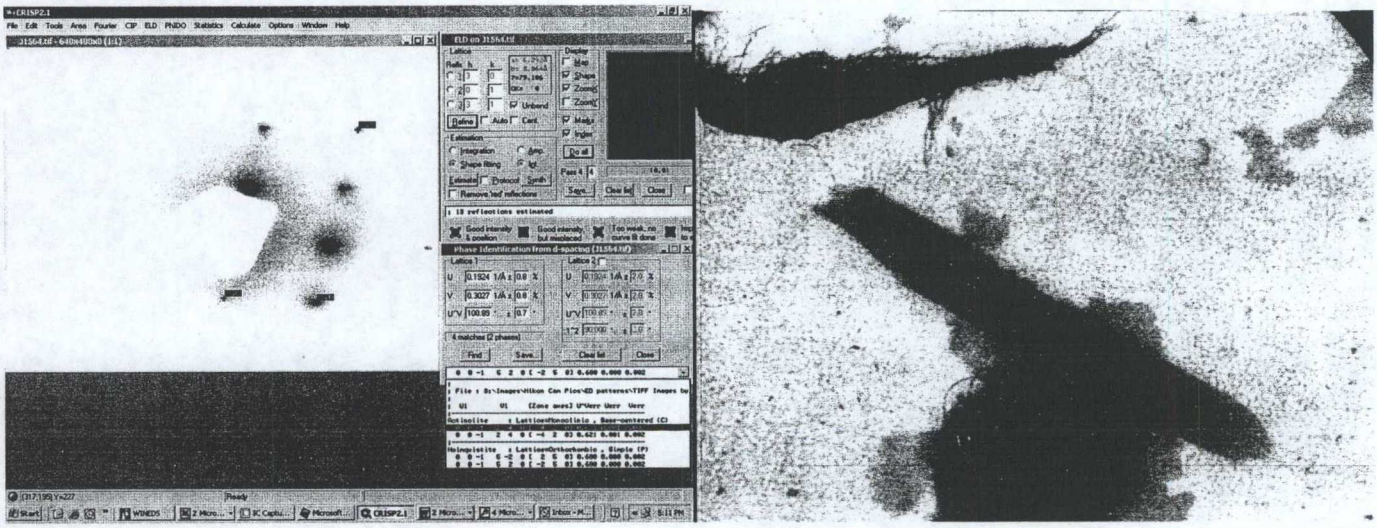


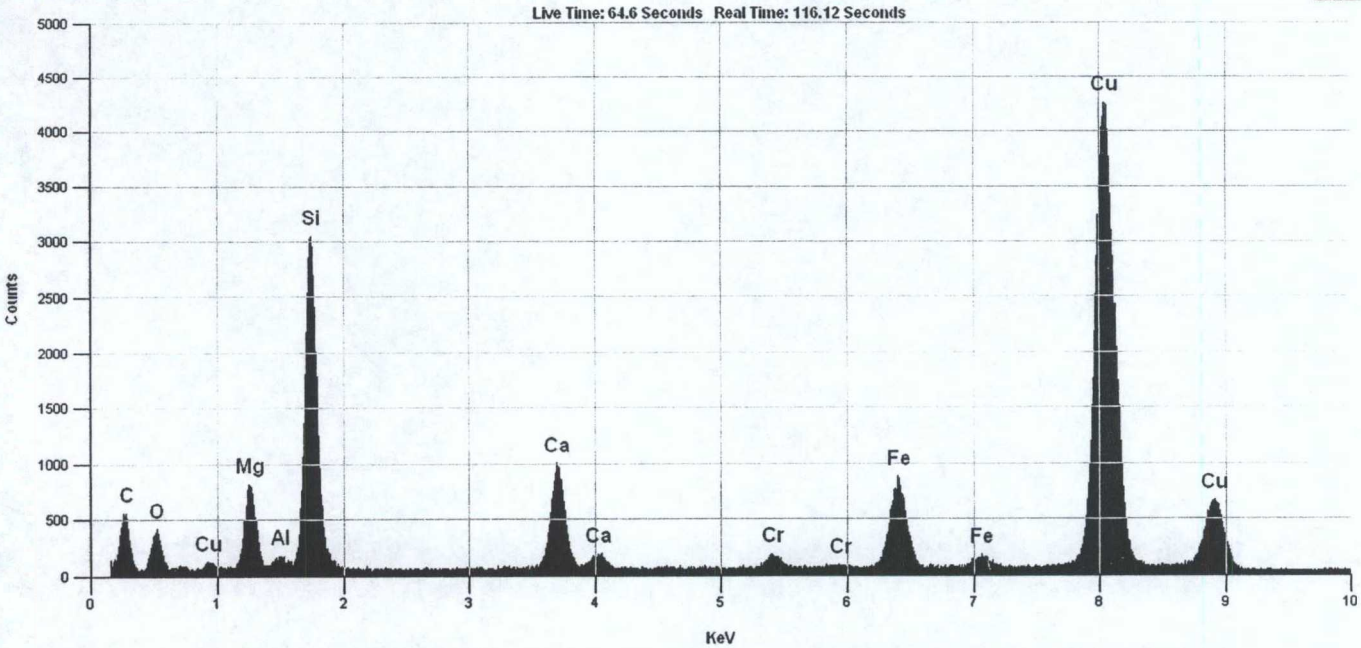


Quantitative Analysis Results - Standardless Analysis :
041188-98-SP1198 Thu, Mar 24 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 296.88
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	19.95	MgO	39.33	1.12	39.33
Si	19.00	SiO2	55.84	1.59	55.84
Fe	1.24	Fe2O3	4.83	0.73	4.83
<Total>	100.00		100.00		100.00

ACTINOLITE
[2 1 0] Zone
041188-98, Neg#J1564





Title: 041188-98-SP1199 Time: 4:52:35 PM Date: Thu, Mar 24 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-98-SP1199 Thu, Mar 24 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 100.07
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.42	Na2O	0.58	0.13	0.58
Mg	5.83	MgO	10.50	0.22	10.50
Al	0.63	Al2O3	1.43	0.10	1.43
Si	20.88	SiO2	56.03	0.59	56.03
Ca	5.90	CaO	14.78	0.33	14.78
Fe	4.68	Fe2O3	16.68	0.49	16.68
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	56.03	Si+4	8.0000	8.0000							
Al2O3	1.43	Al+3	0.2435	0.0000	**0.2435**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	16.68	Fe+3	0.0194			0.0194	0.0000				
MgO	10.5	Mg+2	2.2469			2.2469	**0.0000**				
MnO	0	Fe+2	1.9802			1.9802	**0.0000**				
CaO	14.78	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0.58	Ca+2	2.2712					2.0000	0.2712		
K2O	0	Na+	0.1665					0.0000	**0.1665**	0.1665	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.2435**	C site	**0.0000**	B site	**0.4376533**	A site	**0**
			Total	**8**		**4.4900**		**2.0000**		**0.1665**	**0.0000**
			%Fill	**100**		**89.8004**		**100**			

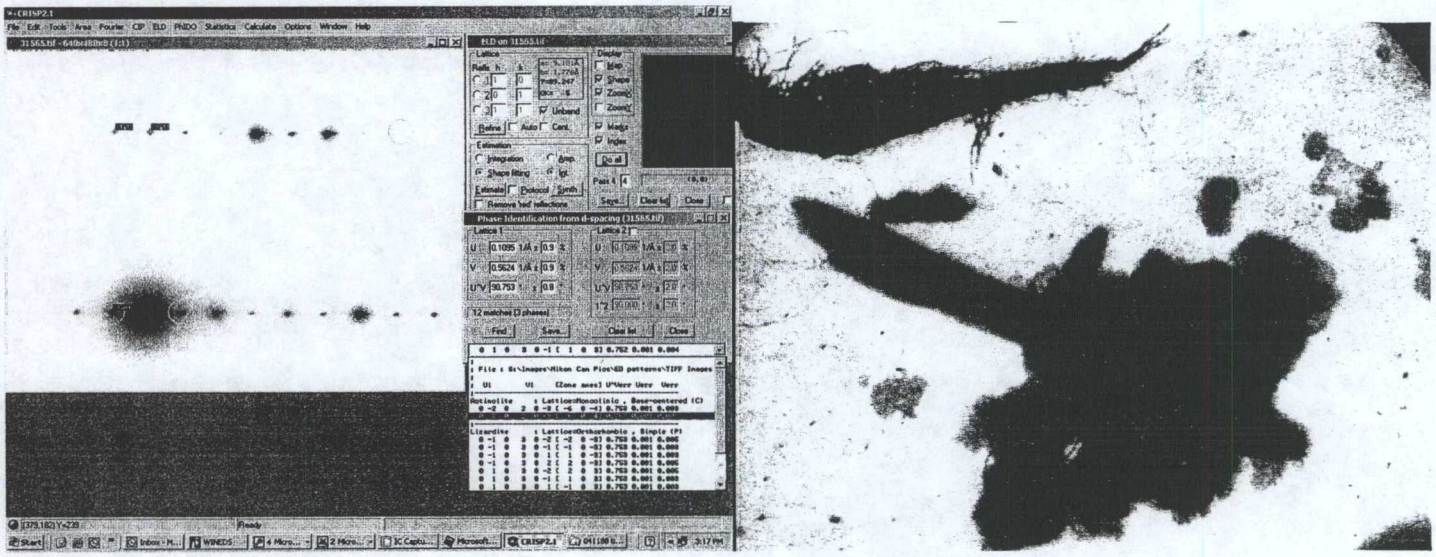
Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # **041188-98-1199**

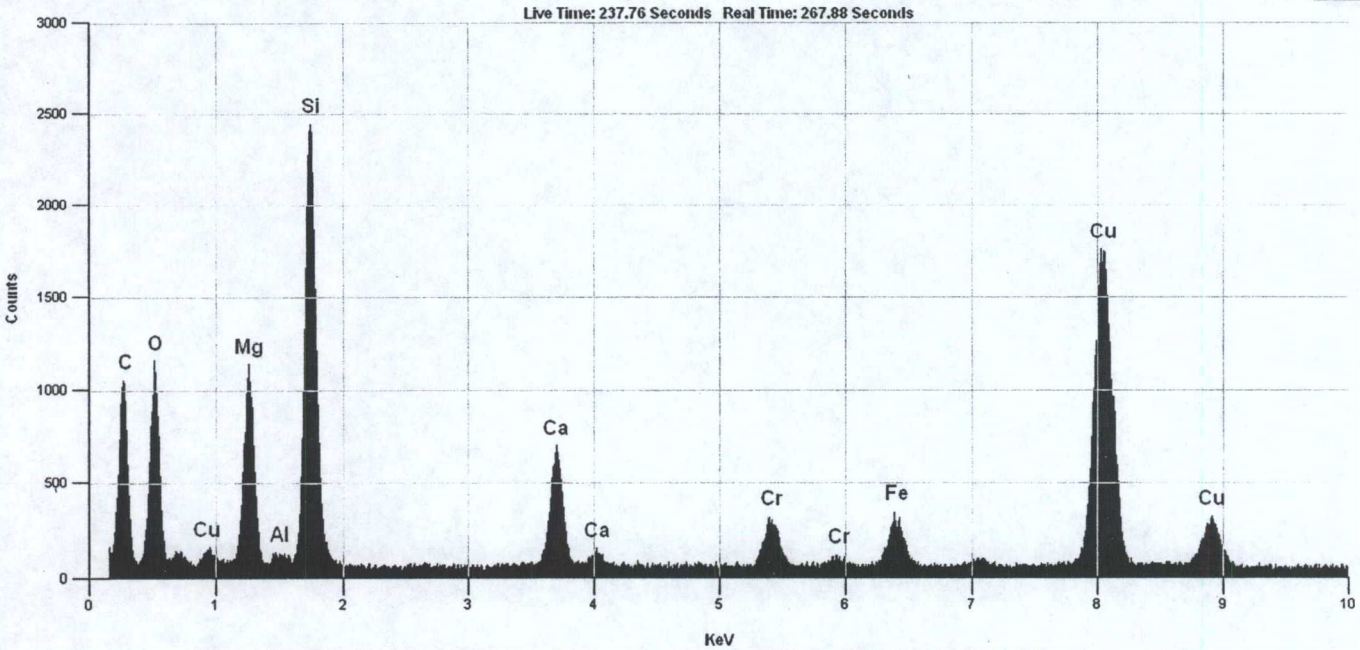
Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.17	Si > 7.5
Mg/(Mg+Fe2)	0.53	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

ACTINOLITE
[3 0 2] Zone
041188-101, Neg#J1565



WINEDS



Title: 041188-101-SP1200 Time: 2:39:58 PM Date: Sat, Mar 26 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
Spectrum8 041188-101-SP1200 Sat, Mar 26 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 171.90
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.44	MgO	19.59	0.41	19.59
Al	0.08	Al2O3	0.18	0.13	0.18
Si	21.17	SiO2	59.20	0.87	59.20
Ca	5.15	CaO	13.43	0.46	13.43
Fe	2.04	Fe2O3	7.59	0.56	7.59
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	59.2	Si+4	8.0000	8.0000							
Al2O3	0.18	Al+3	0.0374	0.0000	**0.0374**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	7.59	Fe+3	0.0132			0.0132	0.0000				
MgO	19.59	Mg+2	4.0037			4.0037	**0.0000**				
MnO	0	Fe+2	0.8688			0.8688	**0.0000**				
CaO	13.43	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.9773					1.9773	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**99.99**		**Excess**	T site	**0.0374**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.9231**		**1.9773**		**0.0000**	**0.0000**
			%Fill	**100**		**98.4622**		**98.8639**			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # **0401188-101-1565**

Values		Satisfied Conditions
(Ca,Na)@B	1.98	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.98	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.82	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

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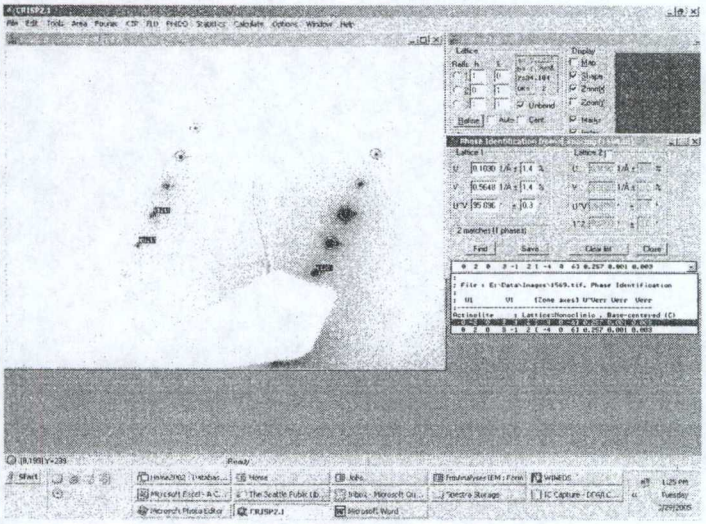
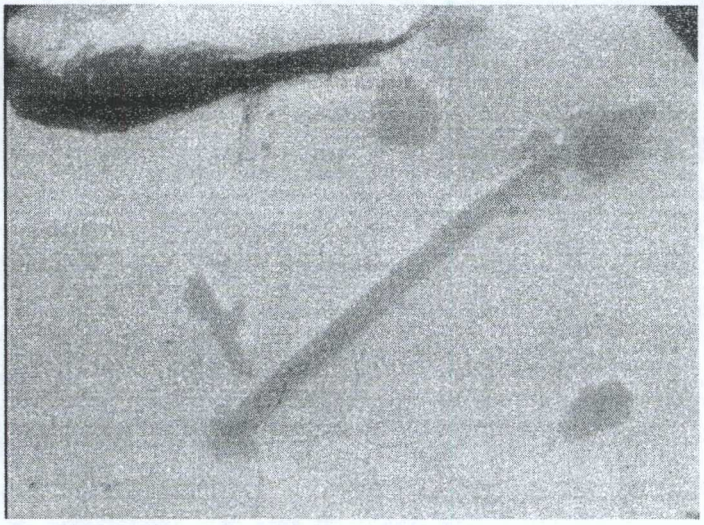
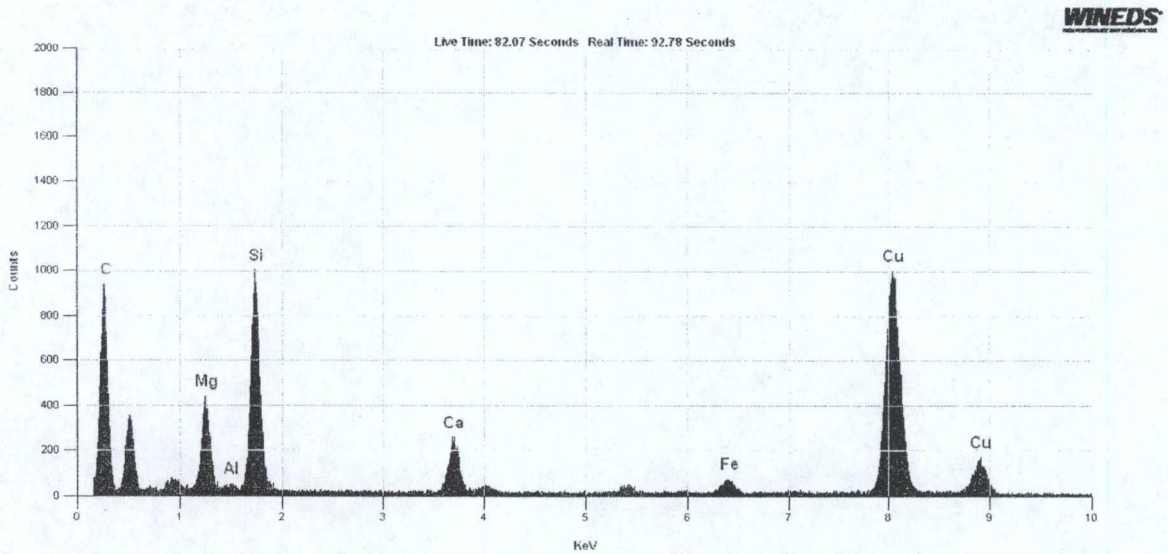
ACTINOLITE - Zone Axis [2 0 -3]
Neg# J1569 Job# 041188-103
JEOL 1200EX - Gatan Image







Quantitative Analysis Results - Standardless Analysis :
041188-103 SP 1203 Tue, Mar 29 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 251.88
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.88	MgO	18.82	0.70	18.82
Al	0.15	Al2O3	0.36	0.22	0.36
Si	22.49	SiO2	63.85	1.54	63.85
Ca	4.77	CaO	12.64	0.75	12.64
Fe	1.15	Fe2O3	4.33	0.73	4.33
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	63.85	Si+4	8.0000	8.0000							
Al2O3	0.36	Al+3	0.1737	0.0000	**0.1737**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	4.33	Fe+3	0.0774			0.0774	0.0000				
MgO	0	Mg+2	0.0000			0.0000	**0.0000**				
MnO	0	Fe+2	0.6653			0.6653	**0.0000**				
CaO	12.64	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	18.82	Ca+2	2.1094					2.0000	0.1094		
K2O	0	Na+	5.4061					0.0000	**5.4061**	1.0000	4.4061
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.1737**	C site	**0.0000**	B site	**5.5155139**	A site	**4.406133**
			Total	**8**		**0.9164**		**2.0000**		**1.0000**	**4.4061**
			%Fill	**100**		**18.3285**		**100**			

Prefix none
Name ferro-edenite
Modifier none
Group Calcic Amphibole

Sample # **041188-103-1203**

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A >= 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))< 0.5
(Na,K)@A	1.00	Si > 6.5
Mg/(Mg+Fe2)	0.00	
Si	8.00	

Mineral Analysis Program (Version 5.0)

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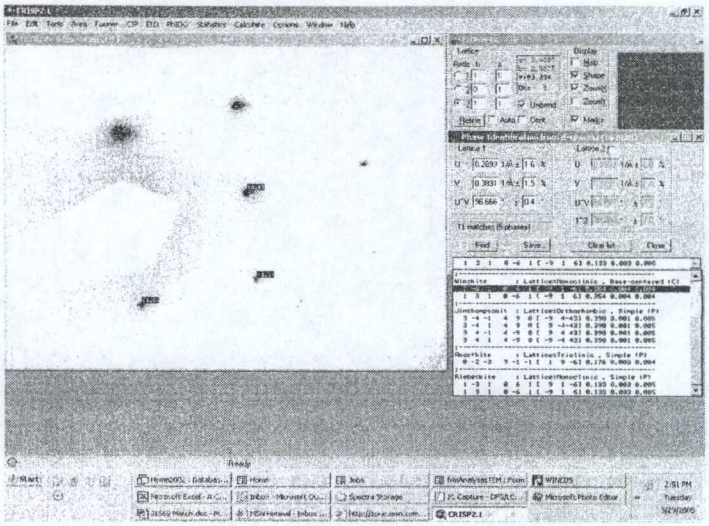
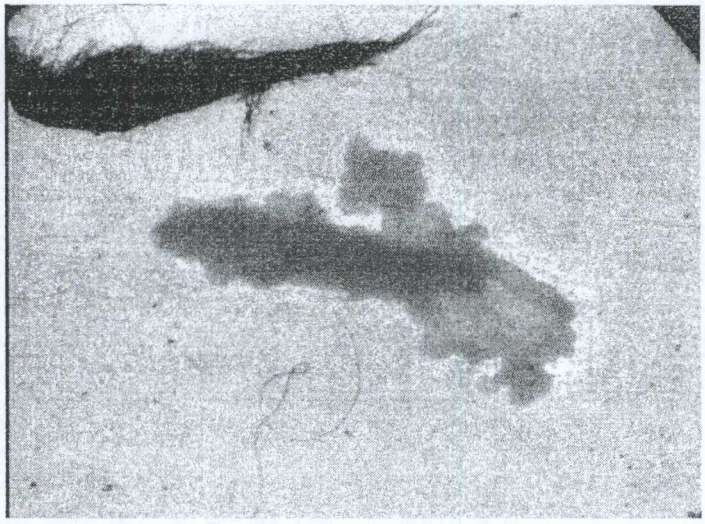
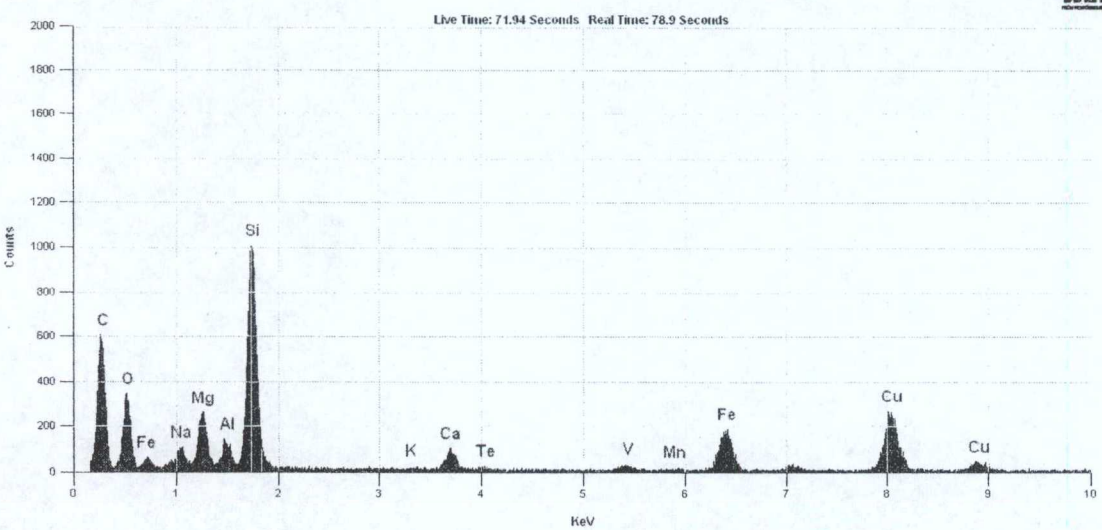
WINCHITE - Zone Axis [9 1 -6]
Neg# J1570 Job# 041188-103
JEOL 1200EX - Gatan Image







Title: 041188-103 SP 1204 Time: 2:40:36 PM Date: Tue, Mar 29 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-103 SP 1204 Tue, Mar 29 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 214.95
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	2.57	Na2O	3.69	0.44	3.69
Mg	5.97	MgO	11.19	0.57	11.19
Al	1.13	Al2O3	2.68	0.29	2.68
Si	22.68	SiO2	63.32	1.52	63.32
K	0.10	K2O	0.21	0.18	0.21
Ca	1.74	CaO	4.54	0.46	4.54
Fe	3.88	Fe2O3	14.37	1.13	14.37
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	63.32	Si+4	8.0000	8.0000							
Al2O3	2.68	Al+3	0.4839	0.0000	**0.4839**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	14.37	Fe+3	0.0488			0.0488	0.0000				
MgO	11.19	Mg+2	2.4094			2.4094	**0.0000**				
MnO	0	Fe+2	1.6976			1.6976	**0.0000**				
CaO	4.54	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	3.69	Ca+2	0.7601					0.7601	0.0000		
K2O	0.21	Na+	1.1069					1.1069	**0.0000**	0.0000	0.0000
		K+	0.0942							0.0942	0.0000
Total	**100**		**Excess**	T site	**0.4839**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.6396**		**1.8670**		**0.0942**	**0.0000**
			%Fill	**100**		**92.7924**		**93.3477**			

Prefix none
Name winchite
Modifier none
Group Sodic-Calcic Amphibole

Sample # 041188-103-1204

Values		Satisfied Conditions
(Ca,Na)@B	1.87	(Ca,Na)@B >= 1 and 0.5 <= Na@B < 1.5
Na@B	1.11	(Na,K)@A < 0.5
Na,K)@A	0.09	(Mg/(Mg+Fe2))>= 0.5
Mg/(Mg+Fe2)	0.59	Si > 7.5
Si	8.00	

Mineral Analysis Program (Version 5.0)

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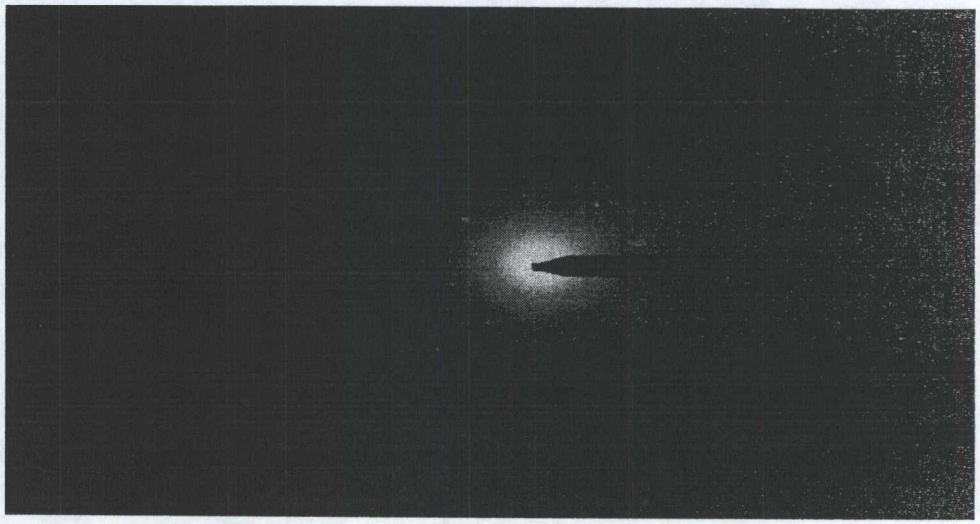
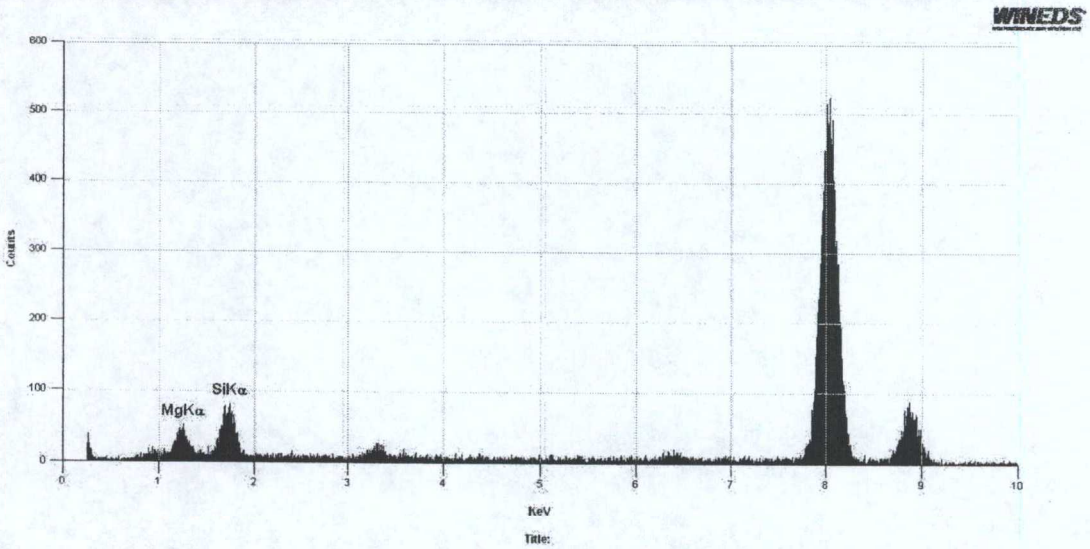
Chrysotile

Neg#[251]; [Job# 15953]
[3-29-05] iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-111 EDS# 15953 Tue, Mar 29 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 31.39

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	20.92	MgO	42.00	6.08	42.00
Si	19.38	SiO2	58.00	6.44	58.00
<Total>	100.00		100.00		100.00

7619 6th Avenue NW, Seattle, WA 98117

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Lab/Cor, Inc.

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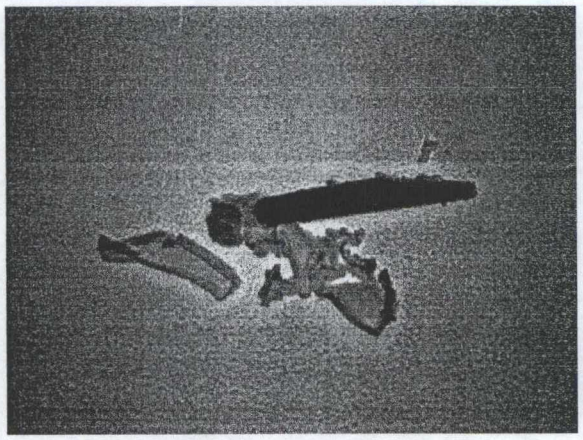
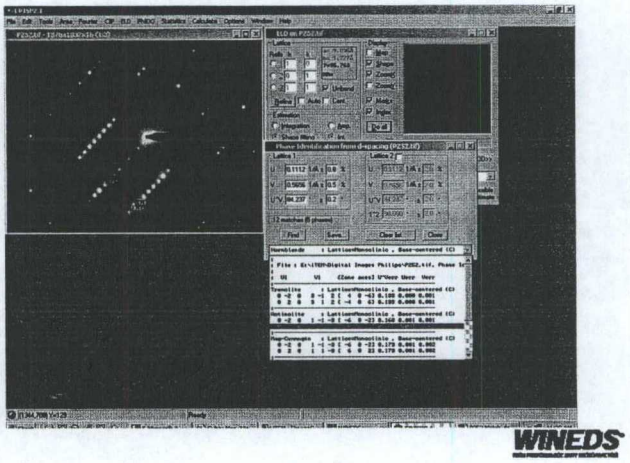
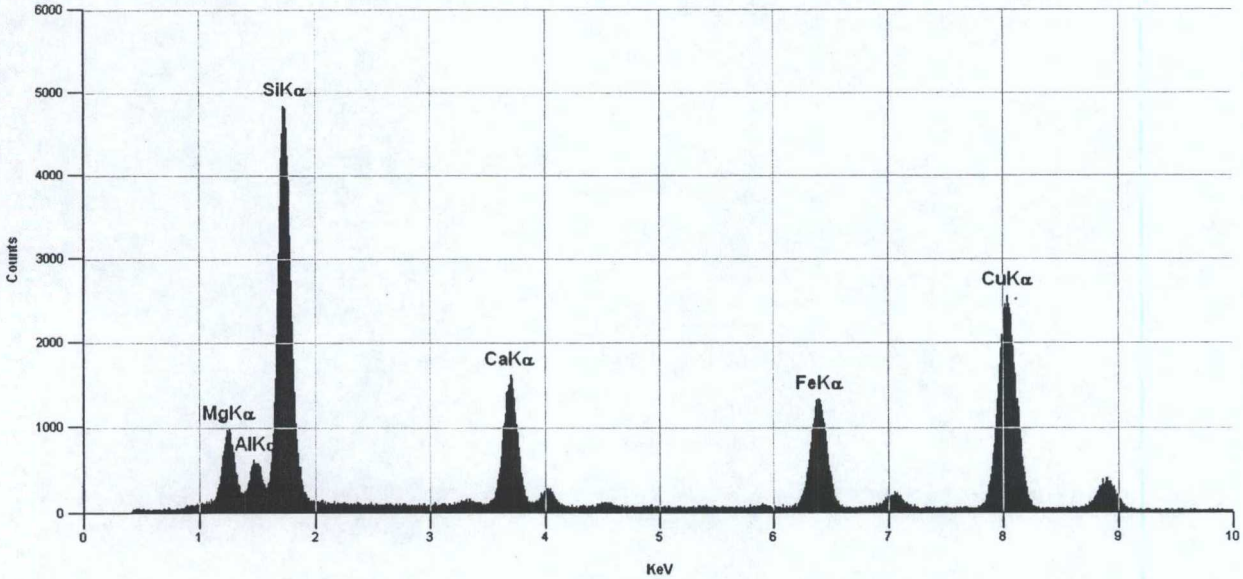
Actinolite

Neg#[252]; [Job# 041188-111]
[3-30-05] iTEM Image
Zone Axis [3 0 1]







Title: 041188-111 SP15954

Quantitative Analysis Results - Standardless Analysis :
041188-111 SP15954 Wed, Mar 30 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 6.62
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.89	MgO	12.54	0.40	12.54
Al	0.91	Al2O3	2.08	0.12	2.08
Si	21.17	SiO2	57.45	0.73	57.45
Ca	4.43	CaO	11.22	0.30	11.22
Fe	4.63	Fe2O3	16.71	0.51	16.71
<Total>	100.00		100.00		100.00

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	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.45	Si+4	8.0000	8.0000							
Al2O3	2.08	Al+3	0.3548	0.0000	0.3548						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	16.71	Fe+3	0.0771			0.0771	0.0000				
MgO	12.54	Mg+2	2.6554			2.6554	0.0000				
MnO	0	Fe+2	1.9014			1.9014	0.0000				
CaO	11.22	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7093					1.7093	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.3548	C site	0.0000	B site	0	A site	0
			Total	8		4.9887		1.7093		0.0000	0.0000
			%Fill	100		99.773		85.4627			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-111-252

Values		Satisfied Conditions
(Ca,Na)@B	1.71	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.71	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.58	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Friday, September 23, 2005 Lab/Cor Report Number: *041188R16*

Howard Edwards
Ecology and Environment, Inc.
350 Sansome
Ste 300
San Francisco CA 94104

Phone: 415-981-2811
Fax: 415-981-0801

Project Name: Site #0440.01CP Sample Set #2 - REVISED FINAL
Project Number: 0440.01CP-0012
Client Reference:
Sample Receipt Date: 10/9/2004

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Analysis #	Client Sample # and Description	Analysis Type and Notes
041188 S9-A1	CC5-H6-2CP-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading

Note Reissued Report for Sample 041188-09 - Aliquot Used has been corrected to reflect the correct dilution factor.

ISO 13794, indirect Preparation and analysis of the above samples was conducted in accordance with the ISO method 13794 (Indirect) for the identification of asbestos. Briefly, a portion of the original filter was ashed and treated with acetic acid to isolate the material of interest. The samples were then aliquoted onto lab filters which were collapsed with acetone, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in acetone until cleared of filter debris.

TEM analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The redeposit samples were analyzed at various approximate screen magnifications of 5,000x for PCM equivalent structures, 10,000x for asbestos structures greater than 5.0 micrometer lengths, and 20,000x for asbestos structures greater than 0.5 micrometer lengths. An accelerating voltage of 100 KV was applied. The sizing of grid openings was performed on the microscope at a magnification of approximately 550X.

Disclaimer This test report relates only to the items tested in this report. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with analytical services.

Sincerely,

John Harris, M.P.H.
Laboratory Director

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R16

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - REVISED FINAL

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S9 A1
Client Sample No. CC5-H6-2CP-100604
Description
Analysis Date 2/18/2005
Analyst KM

Volume (L) 2465.37
No. of Grid Openings 22
Filter Area (mm2) 193
Area Analyzed (mm2) 0.319
Analytical Sens. (struc/cc) 0.00196
Dectection Limit. (struc/cc) 0.00587

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	191.4	0.120	0.0917 - 0.154 (Poisson)	61
Total Asbestos Structures	191.4	0.120	0.0917 - 0.154 (Poisson)	61
Asbestos Structures > 5um	22.0	0.0138	0.00553 - 0.0283	7
Asbestos Fibers and Bundles > 5um	18.8	0.0118	0.00433 - 0.0257	6
PCM Equivalent Fibers-US	15.7	0.00982	0.00319 - 0.0229	5
PCM Equivalent Structures-US	12.5	0.00786	0.00214 - 0.0201	4
PROTOCOL ASB STRUCS 5-10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL ASB STRUCS >10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL ASB STRUCS TOTAL	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00587	0.00 - 0.00587	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00587	0.00 - 0.00587	0
AHERA-like Total Asb Structures 3:1	191.4	0.120	0.0917 - 0.154 (Poisson)	61
AHERA-like Asb Strucs >5 and 3:1	22.0	0.0138	0.00553 - 0.0283	7
AHERA-like Asb Strucs 5 - 10 and 3:1	18.8	0.0118	0.00433 - 0.0257	6
AHERA-like Asb Strucs >10 and 3:1	3.1	0.00196	0.00 - 0.00931	1
Other Total Amphibole Strucs 3:1	0.0	<0.00587	0.00 - 0.00587	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00587	0.00 - 0.00587	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00587	0.00 - 0.00587	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00587	0.00 - 0.00587	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R16

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - REVISED FINAL

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-2CP-100604 *Lab/Cor Sample No.:* B4771 S9 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A41	CDQ	1	1	F	0.8	0.1	8.0	1398	1054	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	1	A41	CD	2	2	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	2	A21	CD	3	3	F	1	0.1	10			Chrysotile	TAS_AHRA
A	3	D41	CD	4	4	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	3	D41	AZQ	5	5	F	5.3	1.2	4.4	1399	1055	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [5 1 2] - KM	AS>5, AFB>5, PCMEF-US, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	B23	CD	6	6	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	4	B23	CD	7	7	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	4	B23	CD	8	8	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	4	B23	AQ	9	9	F	2.5	0.8	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	C22	CD	10	10	F	1	0.08	12			Chrysotile	TAS_AHRA
A	5	C22	AQ	11	11	F	3.8	1.2	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	B42	AQ	12	12	F	24	3.5	6.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	B42	AQ	13	13	F	8	2.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	B42	CD	14	14	F	2	0.1	20			Chrysotile	TAS_AHRA
A	7	B2	CD	15		MD1-0	1.8	1.2	1.5			Chrysotile	TAS_AHRA
A	7	B2	CD		15	MF	0.7	0.1	7.0			Chrysotile	
A	8	B31	CD	16		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
A	8	B31	CD		16	MF	1.5	0.1	15			Chrysotile	
A	8	B31	CD	17	17	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	9	B21	CD	18	18	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	9	B21	CD	19	19	F	1.7	0.1	17			Chrysotile	TAS_AHRA
A	9	B21	CD	20	20	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	D2	CD	21	21	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	11	A12	CD	22	22	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	11	A12	CD	23	23	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	12	B34	CD	24	24	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	12	B34	CD	25	25	B	4.5	0.15	30			Chrysotile	TAS_AHRA
B	12	B34	CD	26	26	B	2.5	0.2	12			Chrysotile	TAS_AHRA
B	13	B14	CD	27	27	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	13	B14	CD	28	28	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R16

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - REVISED FINAL

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-2CP-100604 *Lab/Cor Sample No.:* B4771 S9 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	13	B14	CD	29	29	F	2	0.1	20			Chrysotile	TAS_AHRA
B	13	B14	CD	30	30	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	14	B43	CD	31	31	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	14	B43	CD	32	32	F	1	0.08	12			Chrysotile	TAS_AHRA
B	15	B23	CD	33	33	F	0.8	0.05	16			Chrysotile	TAS_AHRA
B	16	C12	CD	34	34	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	16	C12	CD	35	35	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	16	C12	CD	36	36	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	16	C12	CD	37	37	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	17	B11	CD	38	38	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	17	B11	AQ	39		MD1-1	9	5	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	17	B11	AQ		39	MF	8.5	1.5	5.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	17	B11	AQ	40	40	F	9	0.8	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	17	B11	CD	41		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	17	B11	CD		41	MF	2.5	0.1	25			Chrysotile	
B	18	C1	CD	42	42	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	19	C21	CD	43	43	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	19	C21	CD	44	44	F	1.2	0.12	10			Chrysotile	TAS_AHRA
B	19	C21	CD	45	45	B	1.8	0.12	15			Chrysotile	TAS_AHRA
B	19	C21	CD	46	46	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	19	C21	CD	47	47	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	19	C21	CD	48	48	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	19	C21	CD	49	49	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	20	A11	CD	50	50	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	20	A11	CD	51	51	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	20	A11	CD	52	52	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	20	A11	AQ	53	53	F	3.2	0.6	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	21	D11	CD	54	54	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	21	D11	CD	55	55	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	21	D11	CD	56	56	F	1.2	0.12	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R16

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - REVISED FINAL

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-2CP-100604 *Lab/Cor Sample No.:* B4771 S9 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	21	D11	AQ	57	57	F	5.5	0.75	7.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	22	A20	CD	58	58	F	1	0.1	10			Chrysotile	TAS_AHRA
B	22	A20	CD	59	59	F	2	0.08	25			Chrysotile	TAS_AHRA
B	22	A20	CD	60	60	F	2.2	0.1	22			Chrysotile	TAS_AHRA
B	22	A20	CD	61	61	F	1.5	0.11	14			Chrysotile	TAS_AHRA

NSD = No Structures Detected
PAS = Primary Asbestos Structures
PAOS = Primary Asb _Other Amph Structures
TAS = Total Asbestos Structures
TAOS = Total Asb Other Amph Structures
PCMEF-US = PCM Equivalent Fibers-US
PCMES-US = PCM Equivalent Structures-US
PCMEF-ISO = PCM Equivalent Fibers-ISO
PCMES-ISO = PCM Equivalent Structures-ISO
PSAS 5-10 = PROTOCOL ASB STRUCS 5-10
PSAS >10 = PROTOCOL ASB STRUCS >10

CF = Cleavage Fragments
TS = Transitional Structures

PSAS TOT = PROTOCOL ASB STRUC TOTAL
PSAOS 5-10 = PROTOCOL ASB/OTHER AMPH 5-10
PSAOS>10 = PROTOCOL ASB/OTHER AMPH >10
PSAOS TOT=PROTOCOL ASB/OTHER AMPH TOTAL
PSCH 5-10 = PROTOCOL CHRYS STRUCS 5-10
PSCH >10 = PROTOCOL CHRYS STRUCS >10
PSCH TOT = PROTOCOL CHRYS STRUCS TOTAL
PSAM 5-10 = PROTOCOL AMPH STRUCS 5-10
PSAM >10 = PROTOCOL AMPH STRUCS >10
PSAM TOT = PROTOCOL AMPH STRUCS TOTAL
PSOS 5-10 = PROTOCOL OTHER AMPH 5-10
PSOS >10 = PROTOCOL OTHER AMPH >10
PSOS TOT = PROTOCOL OTHER AMPH TOTAL

TAS_AHRA = AHERA-like Total Strucs 3:1
AS>5_AHRA = AHERA-like Asb Strucs >5 and 3:1
AS5-10_AHRA = AHERA-like Asb Strucs 5 - 10 and 3:1
AS>10_AHRA = AHERA-like Asb Strucs >10 and 3:1
TOS_AHRA = Total Other Amphibole Strucs 3:1
OS>5_AHRA = Other Amphibole Struc >5 and 3:1
OS5-10_AHRA = Other Amphibole Struc 5 - 10 and 3:1
OS>10_AHRA = Other Amphibole Strucs >10 and 3:1
AS>5 = Asbestos Structures > 5um
AFB>5 = Asbestos Fibers and Bundles > 5um

PChS = Primary Chrysotile Structures
PAmS = Primary Amphibole Structures

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Thursday, April 14, 2005 Lab/Cor Report Number: *041188R15*

Howard Edwards
Ecology and Environment, Inc.
350 Sansome
Ste 300
San Francisco CA 94104

Phone: 415-981-2811
Fax: 415-981-0801

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT
Project Number: 0440.01CP-0012
Client Reference:
Sample Receipt Date: 10/9/2004

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Analysis #	Client Sample # and Description	Analysis Type and Notes
Batch #: B4771		
S3-A1	CC2-L6-11CC-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S5-A1	CC2-L6-1CC-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S6-A1	CC2-L6-2CC-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S7-A1	CC2-L6-3CC-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S8-A1	CC5-H6-1CP-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S9-A1	CC5-H6-2CP-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S12-A1	CC5-L6-2CB-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S15-A1	NFB-H2-3FD-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S19-A1	SFBA-L2-1CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S20-A1	SFBA-L2-2CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S25-A1	SFBB-H2-1FD-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S27-A1	SFBB-H2-2FD-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S31-A1	SFBB-L2-2CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S37-A1	SFBC-H2-2FD-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S39-A1	NFB-L2-15CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S40-A1	NFB-L2-1CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S43-A1	NFB-L2-4CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading

S44-A1	NFB-L2-5CH-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S45-A1	SFBC-L2-1CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S47-A1	SFBC-L2-3CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S48-A1	SFBC-L2-4CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S49-A1	SFBC-L2-5CH-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S86-A1	SFBA-H2-2PG-100504	ISO 13794, indirect: Rejected at analysis for high particulate loading
S89-A1	SFBA-H2-4PG-100504	ISO 13794, indirect: Rejected at prep - filter blown out
S98-A1	SFBB-H2-2PG-100604	ISO 13794, indirect: Rejected at analysis for high particulate loading
S101-A1	SFBB-H2-4PG-100604	ISO 13794, indirect: Rejected at prep for loose particulate
S103-A1	SFBB-H2-5PG-100604	ISO 13794, indirect: Rejected at prep for loose particulate
S111-A1	SFBC-H2-4PG-100604	ISO 13794, indirect: Rejected at prep for loose particulate

ISO 13794, indirect

Preparation and analysis of the above samples was conducted in accordance with the ISO method 13794 (Indirect) for the identification of asbestos. Briefly, a portion of the original filter was ashed and treated with acetic acid to isolate the material of interest. The samples were then aliquoted onto lab filters which were collapsed with acetone, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in acetone until cleared of filter debris.

TEM analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The redeposit samples were analyzed at various approximate screen magnifications of 5,000x for PCM equivalent structures, 10,000x for asbestos structures greater than 5.0 micrometer lengths, and 20,000x for asbestos structures greater than 0.5 micrometer lengths. An accelerating voltage of 100 KV was applied. The sizing of grid openings was performed on the microscope at a magnification of approximately 550X.

Disclaimer

This test report relates only to the items tested in this report. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with analytical services.

Sincerely,

John Harris, M.P.H.
Laboratory Director

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S3 A1
Client Sample No. CC2-L6-11CC-100504
Description
Analysis Date 2/8/2005
Analyst KM

Volume (L) 902.5
No. of Grid Openings 34
Filter Area (mm2) 193
Area Analyzed (mm2) 0.493
Analytical Sens. (struc/cc) 0.00174
Dectection Limit. (struc/cc) 0.00519

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	207.0	0.177	0.141 - 0.211 (Poisson)	102
Total Asbestos Structures	211.1	0.181	0.141 - 0.211 (Poisson)	104
Asbestos Structures > 5um	38.6	0.0330	0.0199 - 0.0515	19
Asbestos Fibers and Bundles > 5um	30.4	0.0260	0.0146 - 0.0430	15
PCM Equivalent Fibers-US	30.4	0.0260	0.0146 - 0.0430	15
PCM Equivalent Structures-ISO	24.4	0.0208	0.0108 - 0.0364	12
PROTOCOL ASB'STRUCS 5-10	4.1	0.00347	0.00 - 0.0109	2
PROTOCOL ASB STRUCS >10	0.0	<0.00519	0.00 - 0.00519	0
PROTOCOL ASB STRUCS TOTAL	4.1	0.00347	0.00 - 0.0109	2
PROTOCOL CHRYS STRUCS 5-10	2.0	0.00174	0.00 - 0.00823	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00519	0.00 - 0.00519	0
PROTOCOL CHRYS STRUCS TOTAL	2.0	0.00174	0.00 - 0.00823	1
PROTOCOL AMPH STRUCS 5-10	2.0	0.00174	0.00 - 0.00823	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00519	0.00 - 0.00519	0
PROTOCOL AMPH STRUCS TOTAL	2.0	0.00174	0.00 - 0.00823	1
AHERA-like Total Structures 3:1	207.0	0.177	0.141 - 0.211 (Poisson)	102
AHERA-like Asb Strucs >5 and 3:1	38.6	0.0330	0.0199 - 0.0515	19
AHERA-like Asb Strucs 5 - 10 and 3:1	32.5	0.0278	0.0159 - 0.0451	16
AHERA-like Asb Strucs >10 and 3:1	6.1	0.00521	0.00 - 0.0135	3
Total Other Amphibole Strucs 3:1	0.0	<0.00519	0.00 - 0.00519	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00519	0.00 - 0.00519	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00519	0.00 - 0.00519	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00519	0.00 - 0.00519	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	AZQ	1	1	F	1.3	0.3	4.3	58	15760	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 1 2] - KM	TAS_AHRA
A	1	B44	AQ	2	2	F	5.8	0.8	7.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	B44	AQ	3		MD1-0	6	1.8	3.3			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	B44	AQ		3	MF	4	0.45	8.9			Mg, Al, Si, Ca, Fe Actinolite	
A	1	B44	CDQ	4	4	F	1	0.08	12	59	15761	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	2	B24	CD	5	5	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	2	B24	CD	6	6	F	0.8	0.05	16			Chrysotile	TAS_AHRA
A	2	B24	CD	7	7	F	0.5	0.05	10			Chrysotile	TAS_AHRA
A	3	B4	CD	8		MD1-0	4	3.8	1.1			Chrysotile	TAS_AHRA
A	3	B4	CD		8	MF	1.6	0.1	16			Chrysotile	
A	3	B4	CD	9	9	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	3	B4	CD	10		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
A	3	B4	CD		10	MF	1.2	0.08	15			Chrysotile	
A	3	B4	CD	11	11	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	3	B4	CD	12	12	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	4	C14	CD	13	13	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	4	C14	AQ	14		MD1-0	3.8	1.2	3.2			Actinolite	TAS_AHRA
A	4	C14	AQ		14	MF	3.8	0.4	9.5			Mg, Al, Si, Ca, Fe Actinolite	
A	4	C14	CD	15	15	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	4	C14	CD	16		MD2-0	5.5	3	1.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	C14	CD		16	MF	2	0.08	25			Chrysotile	
A	4	C14	CD		17	MF	0.8	0.08	10			Chrysotile	
A	5	C34	AQ	17	18	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	C34	CD	18	19	F	1.6	0.1	16			Chrysotile	TAS_AHRA
A	5	C34	AQ	19	20	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	C34	CD	20		MD1-0	3.5	2	1.8			Chrysotile	TAS_AHRA
A	5	C34	CD		21	MF	1.8	0.08	22			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	5	C34	AQ	21	22	F	7.8	0.8	9.8			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	C33	CD	22	23	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	6	C33	CD	23		MD1-0	5.5	4	1.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	C33	CD		24	MF	2	0.11	18			Chrysotile	
A	6	C33	CD	24	25	F	1.1	0.08	14			Chrysotile	TAS_AHRA
A	6	C33	CD	25		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
A	6	C33	CD		26	MF	1.2	0.1	12			Chrysotile	
A	7	C23	CD	26	27	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	7	C23	AQ	27	28	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	C3	AQ	28	29	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	C3	CD	29	30	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	8	C3	CD	30	31	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	9	B13	CD	31	32	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	9	B13	AQ	32	33	F	1.5	0.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	B13	AQ	33	34	F	8.5	1.5	5.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	9	B13	CD	34	35	F	2	0.11	18			Chrysotile	TAS_AHRA
A	9	B13	AQ	35		MD1-1	18	10	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	9	B13	AQ		36	MF	8	0.8	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	9	B13	CD	36		MD1-0	1.8	0.7	2.6			Chrysotile	TAS_AHRA
A	9	B13	CD		37	MF	1.5	0.08	19			Chrysotile	
A	10	B33	AQ	37	38	F	2.6	0.6	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	B33	CD	38		MD1-1	12	8	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	10	B33	CD		39	MB	7.5	0.5	15			Chrysotile	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
A	10	B33	CD	39	40	F	0.9	0.08	11			Chrysotile	TAS_AHRA
A	10	B33	CD	40	41	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	11	B13	CD	41	42	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	12	C3		NSD									
A	13	C13	CD	42	43	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	C13	AQ	43	44	F	7	2.2	3.2			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	C13	CD	44	45	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	14	C33	CD	45	46	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
A	14	C33	AQ	46	47	F	1.8	0.2	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	14	C33	CD	47		MD1-0	3	0.8	3.8			Chrysotile	TAS_AHRA
A	14	C33	CD		48	MF	3	0.1	30			Chrysotile	
A	15	C42	CD	48	49	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	15	C42	AQ	49	50	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	C42	CD	50	51	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	15	C42	AQ	51		MD1-0	4.5	4	1.1			Actinolite	TAS_AHRA
A	15	C42	AQ		52	MF	1.5	0.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	
A	15	C42	CD	52		MD1-0	2	0.5	4.0			Chrysotile	TAS_AHRA
A	15	C42	CD		53	MF	1.5	0.08	19			Chrysotile	
A	16	C22	AQ	53	54	F	10	1.2	8.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	C2	CD	54	55	F	1	0.08	12			Chrysotile	TAS_AHRA
A	17	C2	AQ	55	56	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	18	B12	AQ	56	57	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	18	B12	CD	57	58	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	19	B32	AQ	58		MD2-0	5	5	1.0			Actinolite	TAS_AHRA
A	19	B32	AQ		59	MF	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	
A	19	B32	AQ		60	MF	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	
A	19	B32	CD	59	61	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	19	B32	AQ	60	62	F	9.5	1.3	7.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	B32	CD	61	63	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	19	B32	CD	62	64	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	20	B40	CD	63	65	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	20	B40	CD	64	66	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	21	B20	AQ	65		MD1-1	8	6	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	21	B20	AQ		67	MF	8	0.45	18			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	21	B20	CD	66	68	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	22	A10	AQ	67		MD1-1	10	10	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	22	A10	AQ		69	MF	7	0.8	8.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	22	A10	CD	68	70	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	22	A10	AQ	69	71	F	1.8	0.25	7.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	22	A10	CD	70		MD1-0	6.5	3	2.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	22	A10	CD		72	MF	1	0.08	12			Chrysotile	
B	23	B34	CD	71	73	F	1	0.08	12			Chrysotile	TAS_AHRA
B	23	B34	AQ	72	74	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	23	B34	CD	73	75	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	23	B34	CD	74	76	F	0.58	0.08	7.2			Chrysotile	TAS_AHRA
B	23	B34	CD	75	77	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	24	B14	AQ	76	78	F	3.5	0.4	8.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	B14	AQ	77	79	F	12	0.8	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	25	C4	CD	78	80	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	25	C4	CD	79	81	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	26	C24	CD	80	82	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	27	C44		NSD									
B	28	C33	CD	81	83	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	28	C33	AQ	82	84	F	4.5	1.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	29	C13	AQ	83	85	F	6.5	2	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	29	C13	CD	84	86	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	29	C13	CD	85	87	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	30	B3	CD	86		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
B	30	B3	CD		88	MF	1.2	0.08	15			Chrysotile	
B	30	B3	CD	87	89	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	31	B22	CD	88	90	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	31	B22	AQ	89	91	F	8	2	4.0			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	B22	AQ	90	92	F	3.8	0.8	4.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

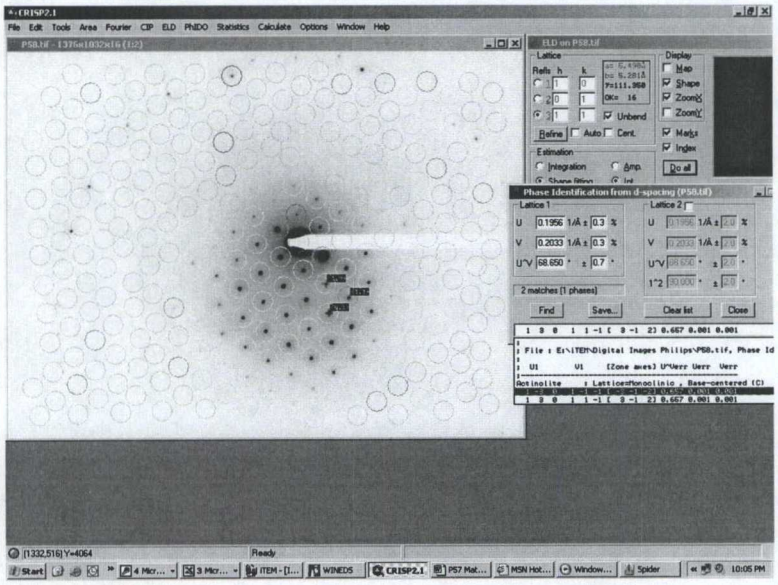
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

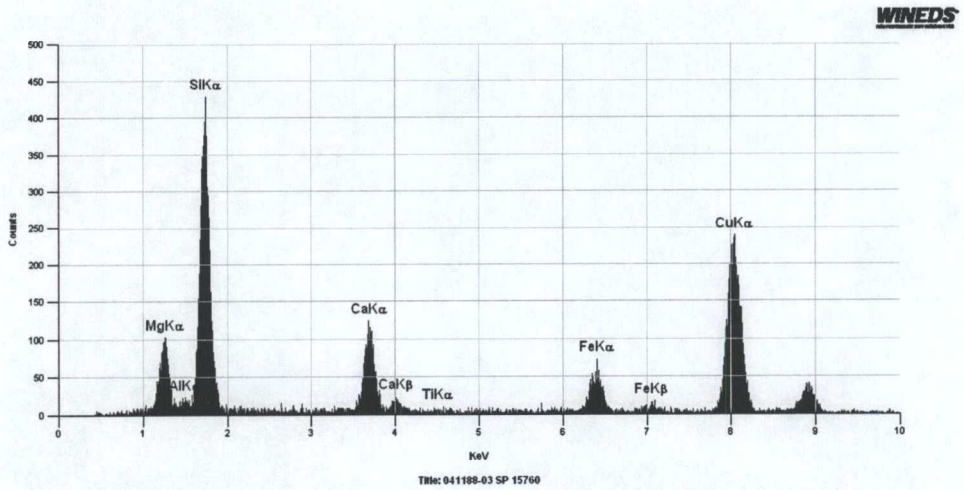
Sample No.: CC2-L6-11CC-100504 *Lab/Cor Sample No.:* B4771 S3 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	31	B22	CD	91	93	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	31	B22	CD	92	94	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	31	B22	CD	93	95	F	0.6	0.05	12			Chrysotile	TAS_AHRA
B	32	B2	CD	94	96	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	32	B2	CD	95	97	F	4.5	0.11	41			Chrysotile	TAS_AHRA
B	32	B2	AQ	96	98	F	5.2	0.6	8.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C12	AQ	97	99	F	4.5	0.8	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	C12	CD	98	100	F	0.6	0.11	5.5			Chrysotile	TAS_AHRA
B	33	C12	CD	99	101	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	34	C32	CD	100	102	F	2	0.08	25			Chrysotile	TAS_AHRA
B	34	C32	CD	101	103	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	34	C32	CD	102	104	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA

ACTINOLITE
Zone Axis [3 1 2]
Neg# P58 Job# 041188-03
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-03 SP 15760 Tue, Feb 08 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 20.53
Correction: CLIFF LORIMER, Cycles: 1

Element	Line	Kratio	Error	ZAF	Weight	Counts	+/-

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.19	MgO	17.31	1.29	17.31
Al	0.13	Al2O3	0.32	0.27	0.32
Si	22.42	SiO2	62.95	2.14	62.95
Ca	4.08	CaO	10.68	0.82	10.68
Fe	2.34	Fe2O3	8.74	1.16	8.74
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.95	Si+4	8.0000	8.0000							
Al2O3	0.32	Al+3	0.1055	0.0000	0.1055						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	8.74	Fe+3	0.0438			0.0438	0.0000				
MgO	17.31	Mg+2	3.6086			3.6086	0.0000				
MnO	0	Fe+2	1.0506			1.0506	0.0000				
CaO	10.68	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.6381					1.6381	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.1055	C site	0.0000	B site	0	A site	0
			Total	8		4.8084		1.6381		0.0000	0.0000
			%Fill	100		96.1683		81.9038			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-03-15760

Values		Satisfied Conditions
(Ca,Na)@B	1.64	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.64	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.77	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S5 A1
Client Sample No. CC2-L6-1CC-100504
Description
Analysis Date 2/9/2005
Analyst KM

Volume (L) 893.84
No. of Grid Openings 44
Filter Area (mm2) 193
Area Analyzed (mm2) 0.638
Analytical Sens. (struc/cc) 0.00135
Dectection Limit. (struc/cc) 0.00405

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	161.6	0.140	0.110 - 0.165 (Poisson)	103
Total Asbestos Structures	161.6	0.140	0.110 - 0.165 (Poisson)	103
Asbestos Structures > 5um	28.2	0.0244	0.0145 - 0.0385	18
Asbestos Fibers and Bundles > 5um	23.5	0.0203	0.0114 - 0.0335	15
PCM Equivalent Fibers-US	22.0	0.0190	0.0104 - 0.0318	14
PCM Equivalent Structures-ISO	7.8	0.00677	0.00220 - 0.0158	5
PROTOCOL ASB STRUCS 5-10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL ASB STRUCS >10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL ASB STRUCS TOTAL	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00405	0.00 - 0.00405	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00405	0.00 - 0.00405	0
AHERA-like Total Structures 3:1	161.6	0.140	0.110 - 0.165 (Poisson)	103
AHERA-like Asb Strucs >5 and 3:1	28.2	0.0244	0.0145 - 0.0385	18
AHERA-like Asb Strucs 5 - 10 and 3:1	15.7	0.0135	0.00650 - 0.0249	10
AHERA-like Asb Strucs >10 and 3:1	12.5	0.0108	0.00468 - 0.0214	8
Total Other Amphibole Strucs 3:1	0.0	<0.00405	0.00 - 0.00405	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00405	0.00 - 0.00405	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00405	0.00 - 0.00405	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00405	0.00 - 0.00405	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44		NSD									
A	2	B24	AQ	1	1	F	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	B4	AQ	2	2	F	1.8	0.3	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	B4	AQ	3		MD1-0	10	6	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	B4	AQ		3	MF	4.2	0.8	5.2			Mg, Al, Si, Ca, Fe Actinolite	
A	3	B4	CDQ	4	4	F	1.2	0.08	15	66	15771	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	3	B4	CD	5	5	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	4	C14		NSD									
A	5	C34	CD	6		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
A	5	C34	CD		6	MF	0.8	0.08	10			Chrysotile	
A	5	C34	CD	7		MD1-0	3	2.5	1.2			Chrysotile	TAS_AHRA
A	5	C34	CD		7	MF	0.6	0.08	7.5			Chrysotile	
A	5	C34	AQ	8		MD1-1	6.5	3.5	1.9			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	C34	AQ		8	MF	5.35	0.8	6.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	6	C43		NSD									
A	7	C23	CD	9	9	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	7	C23	CD	10	10	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	7	C23	CD	11	11	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	8	C3	CD	12		MD1-0	4	2	2.0			Chrysotile	TAS_AHRA
A	8	C3	CD		12	MF	0.6	0.1	6.0			Chrysotile	
A	8	C3	CD	13	13	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	8	C3	CD	14	14	F	1.1	0.08	14			Chrysotile	TAS_AHRA
A	8	C3	AQ	15	15	F	4.8	1.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	B13	CD	16	16	F	0.55	0.08	6.9			Chrysotile	TAS_AHRA
A	10	B33		NSD									
B	11	A41	CD	17	17	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	11	A41	AZQ	18	18	F	4	1	4.0	74	15774	Mg,Si,Ca,Fe Tremolite Zone Axis [2 1 1] - KM	TAS_AHRA
B	12	A31	CD	19	19	F	1	0.1	10			Chrysotile	TAS_AHRA
B	12	A31	CD	20	20	F	1	0.1	10			Chrysotile	TAS_AHRA
B	12	A31	AQ	21	21	F	1.5	0.2	7.5			Mg,Si,Ca,Fe Actinolite	TAS_AHRA
B	12	A31	CDQ	22	22	F	1	0.1	10	75		Mg,Si Chrysotile Verified - DW	TAS_AHRA
B	13	A21	CD	23	23	F	1	0.1	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	13	A21	CD	24	24	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	13	A21	CD	25	25	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	13	A21	CD	26	26	F	1	0.1	10			Chrysotile	TAS_AHRA
B	14	A11	CD	27	27	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	14	A11	AQ	28		MD1-0	2.5	2.5	1.0			Actinolite	TAS_AHRA
B	14	A11	AQ		28	MF	2.5	0.75	3.3			Mg,Si,Ca,Fe Actinolite	
B	14	A11	CD	29	29	F	1	0.1	10			Chrysotile	TAS_AHRA
B	15	A1	CD	30	30	F	1	0.1	10			Chrysotile	TAS_AHRA
B	15	A1	AQ	31		MD1-0	9	7.5	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	15	A1	AQ		31	MF	4.5	0.7	6.4			Mg,Si,Ca,Fe Actinolite	
B	16	D1	AQ	32		MD1-0	4	4	1.0			Actinolite	TAS_AHRA
B	16	D1	AQ		32	MF	4	0.5	8.0			Mg,Si,Ca,Fe Actinolite	
B	16	D11	CD	33	33	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	16	D11	CD	34	34	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	17	D21	AQ	35		MD1-1	20	20	1.0			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	17	D21	AQ		35	MF	10	2.75	3.6			Mg,Si,Ca,Fe Tremolite	AFB>5, PCMEF-US
B	17	D21	AQ	36		MD1-1	17.5	6	2.9			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	17	D21	AQ		36	MF	6	1	6.0			Mg,Si,Ca,Fe Actinolite	AFB>5, PCMEF-US
B	17	D21	CD	37	37	F	1	0.1	10			Chrysotile	TAS_AHRA
B	17	D21	CD	38	38	F	1	0.1	10			Chrysotile	TAS_AHRA
B	17	D21	CD	39	39	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	17	D21	CD	40		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
B	17	D21	CD		40	MF	0.6	0.1	6.0			Chrysotile	
B	18	D31	AQ	41		MD1-1	6	3	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	18	D31	AQ		41	MF	5.5	1.2	4.6			Mg,Si,Ca,Fe Actinolite	AFB>5, PCMEF-US
B	19	D41	CD	42		MD1-0	2.75	1	2.8			Chrysotile	TAS_AHRA
B	19	D41	CD		42	MF	1	0.1	10			Chrysotile	
B	19	D41	CD	43	43	F	1	0.1	10			Chrysotile	TAS_AHRA
B	20	D40	CD	44	44	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	20	D40	AQ	45		MD1-1	10	7.5	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	20	D40	AQ		45	MF	10	1.5	6.7			Mg,Si,Ca,Fe Actinolite	AFB>5, PCMEF-US

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	20	D40	CD	46	46	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	20	D30	CD	47	47	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	20	D30	CD	48	48	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
B	21	D20	AQ	49	49	F	11	1	11			Mg,Si,Ca,Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	21	D10	CD	50	50	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	22	B10	CD	51	51	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	22	B10	CD	52	52	F	1	0.1	10			Chrysotile	TAS_AHRA
B	23	B20	CD	53	53	F	1	0.1	10			Chrysotile	TAS_AHRA
B	23	B20	CD	54	54	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	23	B20	AQ	55		MD1-1	13	7.5	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	23	B20	AQ		55	MF	7.5	1.5	5.0			Mg,Si,Ca,Fe Actinolite	AFB>5, PCMEF-US
B	24	B30	CD	56	56	F	1	0.1	10			Chrysotile	TAS_AHRA
B	25	B40	CD	57	57	F	1	0.1	10			Chrysotile	TAS_AHRA
B	25	B40	AQ	58	58	F	5.5	0.75	7.3			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	26	B44	CD	59	59	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	26	B44	CD	60	60	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	27	B24		NSD									
B	28	B4	CD	61	61	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	28	B4	CD	62	62	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	28	B4	AQ	63		MD1-0	3.8	1.5	2.5			Actinolite	TAS_AHRA
B	28	B4	AZQ		63	MF	2.8	0.5	5.6	76	15575	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 1 2] - KM	
B	28	B4	CD	64		MD1-0	2.8	1	2.8			Chrysotile	TAS_AHRA
B	28	B4	CD		64	MF	1.2	0.1	12			Chrysotile	
B	29	C14	CD	65	65	F	2	0.11	18			Chrysotile	TAS_AHRA
B	29	C14	AQ	66	66	F	3.8	0.5	7.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	29	C14	AQ	67	67	F	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	30	C34	AQ	68	68	F	4.5	0.6	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	C43	CD	69	69	F	1	0.08	12			Chrysotile	TAS_AHRA
B	32	C23	AQ	70	70	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	C23	AQ	71		MD1-1	12	4	3.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	32	C23	AQ		71	MF	10	0.8	12			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	32	C23	CD	72	72	F	1.3	0.11	12			Chrysotile	TAS_AHRA
B	32	C23	CD	73	73	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	33	C3	CD	74	74	F	3	0.1	30			Chrysotile	TAS_AHRA
B	34	B13	AQ	75	75	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Tremolite	TAS_AHRA
B	34	B13	AQ	76		MD1-1	13	6	2.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	34	B13	AQ		76	MF	10	1.2	8.3			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	35	B33	CD	77	77	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	35	B33	CD	78	78	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	35	B33	CD	79	79	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	36	B42	CD	80	80	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	37	B22	AQ	81	81	F	12	3.8	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	37	B22	CD	82		MD1-0	1.2	0.8	1.5			Chrysotile	TAS_AHRA
B	37	B22	CD		82	MF	1	0.08	12			Chrysotile	
B	37	B22	CD	83		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
B	37	B22	CD		83	MF	0.6	0.08	7.5			Chrysotile	
B	37	B22	AZQ	84	84	F	5.7	1	5.7	77	15776	Mg, Si, Fe Amosite Zone Axis [7 1 4] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	B2	AQ	85		MD1-1	8	8	1.0			Amosite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	B2	AQ		85	MF	6	0.8	7.5			Actinolite	AFB>5, PCMEF-US
B	38	B2	AQ	86	86	F	1.2	0.35	3.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	38	B2	CD	87	87	F	1.3	0.1	13			Chrysotile	TAS_AHRA
B	39	C12	CD	88	88	F	1.3	0.12	11			Chrysotile	TAS_AHRA
B	39	C12	AQ	89		MD1-0	18	10	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	39	C12	AQ		89	MF	4.8	0.8	6.0			Mg, Al, Si, Ca, Fe Actinolite	
B	39	C12	AQ	90	90	F	4.3	0.38	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	40	C32	CD	91	91	F	1	0.1	10			Chrysotile	TAS_AHRA
C	41	A41	CD	92	92	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	41	A41	CD	93		MD1-0	1.8	0.8	2.2			Chrysotile	TAS_AHRA
C	41	A41	CD		93	MF	0.5	0.08	6.2			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-1CC-100504 *Lab/Cor Sample No.:* B4771 S5 A1

Descripiton:

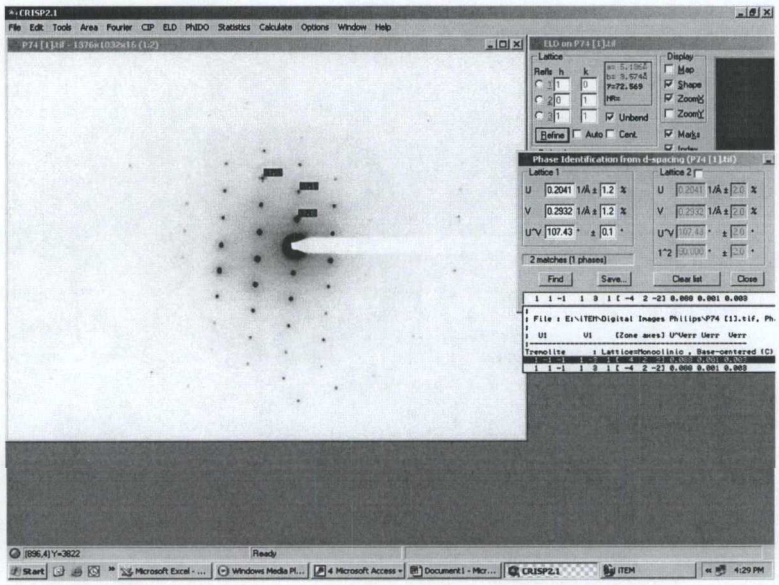
Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	42	A21	CD	94		MD1-0	1.8	1.5	1.2			Chrysotile	TAS_AHRA
C	42	A21	CD		94	MF	1.8	0.08	22			Chrysotile	
C	42	A21	CD	95	95	F	1.2	0.08	15			Chrysotile	TAS_AHRA
C	42	A21	CD	96	96	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	43	A1	AQ	97	97	F	4.5	0.9	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	43	A1	CD	98	98	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
C	43	A1	AQ	99	99	F	7	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	44	D11	AQ	100	100	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	44	D11	CD	101	101	B	2	0.15	13			Chrysotile	TAS_AHRA
C	44	D11	AQ	102	102	F	4.5	1.2	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	44	D11	CD	103	103	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA

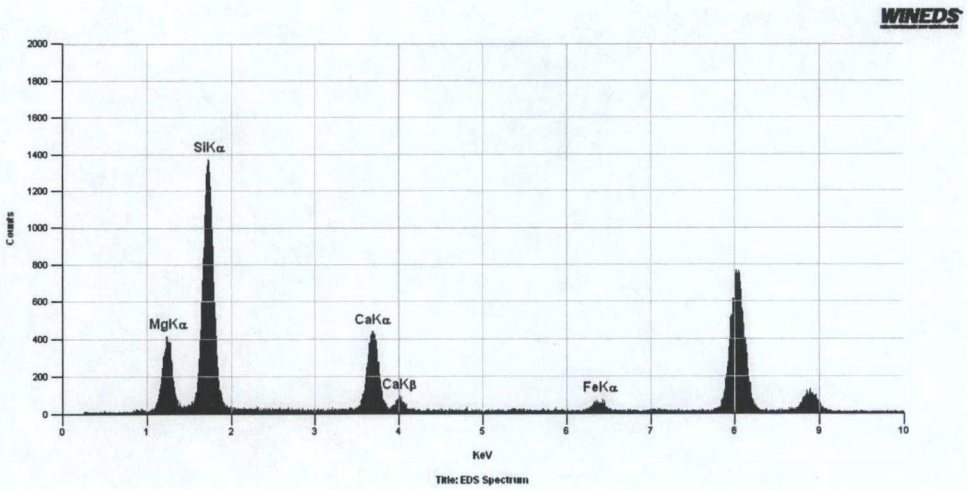
TREMOLITE

Zone Axis [2 1 1]

Neg# P74 Job# 041188-05

iTEM Image





Quantitative Analysis Results - Standardless Analysis :

041188-05 SP 15774 Fri, Feb 11 2005

EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 70.24

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	11.85	MgO	22.74	0.76	22.74
Si	21.79	SiO2	62.37	1.11	62.37
Ca	4.66	CaO	12.44	0.40	12.44
Fe	0.64	Fe2O3	2.45	0.30	2.45
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.37	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	0.0000						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	2.45	Fe+3	0.0301			0.0301	0.0000				
MgO	22.74	Mg+2	4.5706			4.5706	0.0000				
MnO	0	Fe+2	0.3133			0.3133	0.0000				
CaO	12.44	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.8262					1.8262	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0000	C site	0.0000	B site	0	A site	0
			Total	8		4.9140		1.8262		0.0000	0.0000
			%Fill	100		98.2799		91.3103			

Prefix	none
Name	tremolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-05-15774

Values		Satisfied Conditions
(Ca,Na)@B	1.83	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.83	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.94	(Mg/(Mg+Fe2))>= 0.9
Si	8.00	

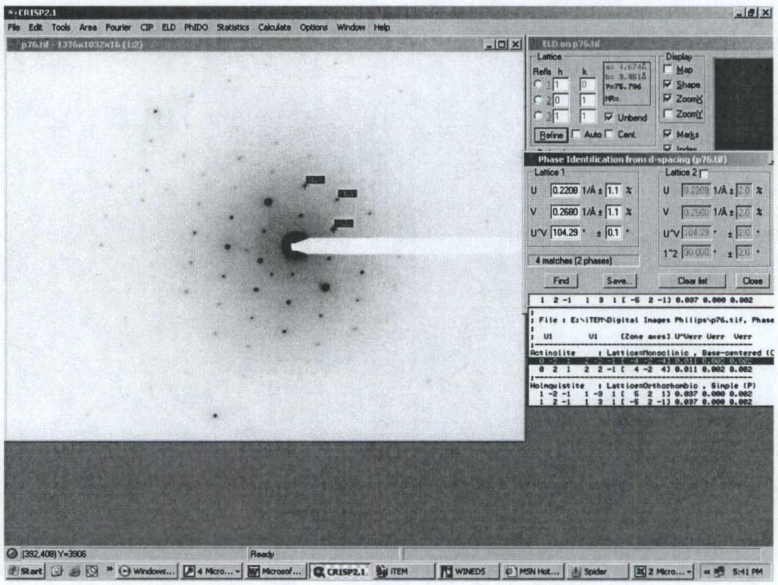
Mineral Analysis Program (Version 5.0)

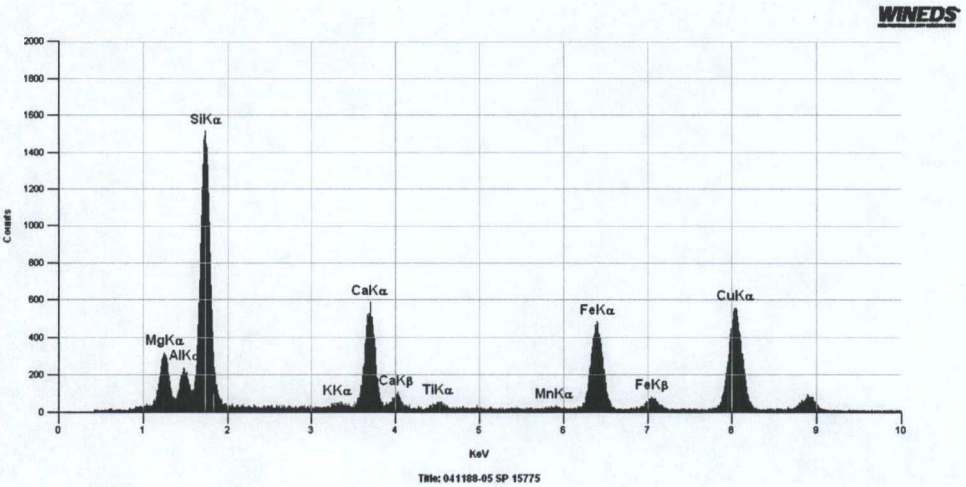
ACTINOLITE

Zone Axis [2 1 2]

Neg# P76 Job# 041188-05

iTEM Image





Quantitative Analysis Results - Standardless Analysis :

041188-05 SP 15575 Sat, Feb 12 2005

EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 6.05

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.73	MgO	12.05	0.67	12.05
Al	1.13	Al2O3	2.55	0.21	2.55
Si	19.94	SiO2	53.21	1.21	53.21
K	0.16	K2O	0.34	0.19	0.34
Ca	4.96	CaO	12.37	0.52	12.37
Fe	5.49	Fe2O3	19.48	0.97	19.48
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	53.21	Si+4	7.6754	7.6754							
Al2O3	2.55	Al+3	0.4335	0.3246	0.1089						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	19.48	Fe+3	0.2960			0.2960	0.0000				
MgO	12.05	Mg+2	2.5913			2.5913	0.0000				
MnO	0	Fe+2	2.0207			2.0038	0.0169				
CaO	12.37	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.9116					1.9116	0.0000		
K2O	0.34	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0626							0.0626	0.0000
Total	100		Excess	T site	0.1089	C site	0.0169	B site	0	A site	0
			Total	8		5.0000		1.9116		0.0626	0.0000
			%Fill	100		100		95.5808			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-05-15775

Values		Satisfied Conditions
(Ca,Na)@B	1.91	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.91	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.06	Si > 7.5
Mg/(Mg+Fe2)	0.56	(Mg/(Mg+Fe2))< 0.9
Si	7.68	

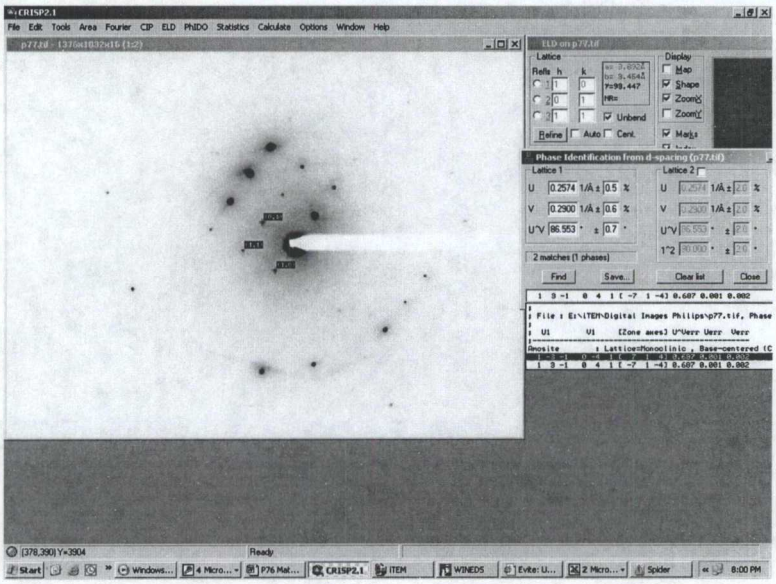
Mineral Analysis Program (Version 5.0)

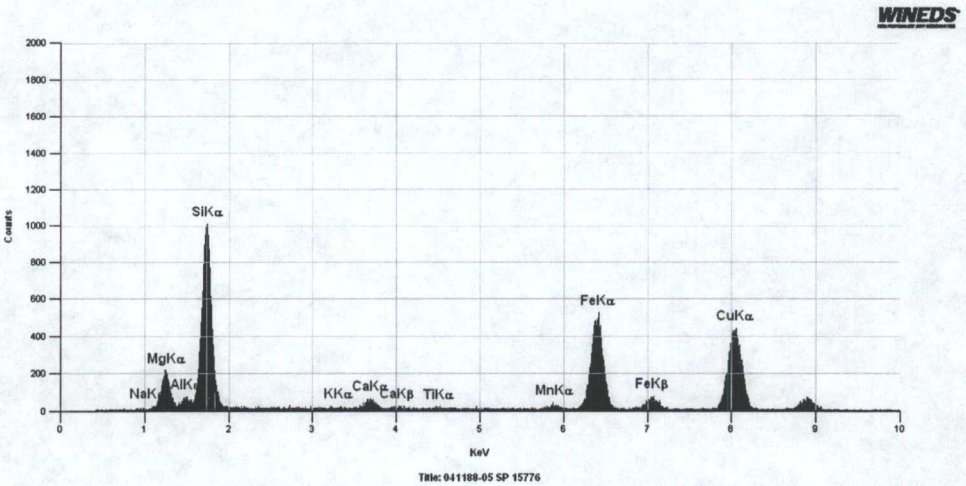
AMOSITE

Zone Axis [7 1 4]

Neg# P77 Job# 041188-05

iTEM Image





Quantitative Analysis Results - Standardless Analysis :

041188-05 SP 15776 Sat, Feb 12 2005

EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 7.06

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.23	MgO	12.78	0.74	12.78
Al	0.36	Al2O3	0.81	0.19	0.81
Si	20.39	SiO2	53.76	1.49	53.76
Ca	0.59	CaO	1.46	0.29	1.46
Fe	8.90	Fe2O3	31.19	1.53	31.19
<Total>	100.00		100.00		100.00

	Wt Percent		Ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	53.76	Si+4	7.9440	7.9440							
Al2O3	0.81	Al+3	0.1411	0.0560	0.0851						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	31.19	Fe+3	0.0000			0.0000	0.0000				
MgO	12.78	Mg+2	2.8154			2.8154	0.0000				
MnO	0	Fe+2	3.8539			2.0996	1.7543				
CaO	1.46	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	0.2311					0.2311	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0851	C site	1.7543	B site	0	A site	0
			Total	8		5.0000		0.2311		0.0000	0.0000
			%Fill	100		100		11.5565			

Prefix none
Name grunerite, ferro-anthophyllite, ferroholmquistite, clinoferroholmquistite
Modifier none
Group Mg-Fe-Mn Amphibole

Sample # 041188-05-15776

Values		Satisfied Conditions
(Ca,Na)@B	0.23	(Ca,Na)@B < 1 and (Mg,Fe2,Mn)@B >= 0.95
(Mg,Fe2,Mn)@B	1.75	(Mg/(Mg+Fe2))< 0.5
Mg/(Mg+Fe2)	0.42	Si > 7
Si	7.94	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S6 A1
Client Sample No. CC2-L6-2CC-100504
Description
Analysis Date 2/11/2005
Analyst KM

Volume (L) 908.8
No. of Grid Openings 42
Filter Area (mm2) 193
Area Analyzed (mm2) 0.609
Analytical Sens. (struc/cc) 0.00140
Dectection Limit. (struc/cc) 0.00417

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	164.3	0.140	0.114 - 0.170 (Poisson)	100
Total Asbestos Structures	164.3	0.140	0.114 - 0.170 (Poisson)	100
Asbestos Structures > 5um	19.7	0.0167	0.00866 - 0.0293	12
Asbestos Fibers and Bundles > 5um	16.4	0.0140	0.00669 - 0.0257	10
PCM Equivalent Fibers-US	14.8	0.0126	0.00574 - 0.0238	9
PCM Equivalent Structures-ISO	13.1	0.0112	0.00482 - 0.0220	8
PROTOCOL ASB STRUCS 5-10	1.6	0.00140	0.00 - 0.00662	1
PROTOCOL ASB STRUCS >10	0.0	<0.00417	0.00 - 0.00417	0
PROTOCOL ASB STRUCS TOTAL	1.6	0.00140	0.00 - 0.00662	1
PROTOCOL CHRYS STRUCS 5-10	1.6	0.00140	0.00 - 0.00662	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00417	0.00 - 0.00417	0
PROTOCOL CHRYS STRUCS TOTAL	1.6	0.00140	0.00 - 0.00662	1
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00417	0.00 - 0.00417	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00417	0.00 - 0.00417	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00417	0.00 - 0.00417	0
AHERA-like Total Structures 3:1	164.3	0.140	0.114 - 0.170 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	19.7	0.0167	0.00866 - 0.0293	12
AHERA-like Asb Strucs 5 - 10 and 3:1	13.1	0.0112	0.00482 - 0.0220	8
AHERA-like Asb Strucs >10 and 3:1	6.6	0.00558	0.00152 - 0.0143	4
Total Other Amphibole Strucs 3:1	0.0	<0.00417	0.00 - 0.00417	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00417	0.00 - 0.00417	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00417	0.00 - 0.00417	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00417	0.00 - 0.00417	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-2CC-100504 *Lab/Cor Sample No.:* B4771 S6 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A44	CD	1	1	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	1	A44	CDQ	2	2	F	1	0.1	10	1380	1037	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	1	A44	CD	3	3	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	1	A44	CD	4	4	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	2	A24	CD	5		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
A	2	A24	CD		5	MF	1.2	0.08	15			Chrysotile	
A	3	A4	CD	6	6	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	3	A4	CD	7	7	F	1	0.05	20			Chrysotile	TAS_AHRA
A	4	D14	AQ	8	8	F	3.8	0.7	5.4			Actinolite	TAS_AHRA
A	4	D14	CD	9	9	F	1.6	0.1	16			Chrysotile	TAS_AHRA
A	5	D34	AZQ	10	10	F	8	1.2	6.7	1381	1038	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 1 2] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D43	AQ	11	11	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	D43	CD	12	12	F	1.5	0.08	19			Chrysotile	TAS_AHRA
A	7	D23	AQ	13	13	F	1.8	0.35	5.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	7	D23	CD	14	14	F	1.5	0.08	19			Chrysotile	TAS_AHRA
A	8	D3	CD	15	15	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	9	A13	AQ	16	16	F	3	0.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	A33	AQ	17		MD1-0	12	6	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	10	A33	AQ		17	MF	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	
A	11	A42	CD	18	18	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	11	A42	AQ	19	19	F	3.3	0.5	6.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	11	A42	CD	20	20	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	12	A22	AQ	21	21	F	5.5	0.8	6.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	12	A22	CD	22	22	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	12	A22	AZQ	23		MD1-0	5	2	2.5			Tremolite	TAS_AHRA
A	12	A22	AZQ		23	MF	2	0.3	6.7	1382	1039	Mg, Si, Ca, Fe Tremolite Zone Axis [2 1 1] - KM	
A	12	A22	CD	24	24	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	12	A22	CD	25	25	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	12	A22	AQ	26	26	F	1.2	0.12	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	13	A2	CD	27	27	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-2CC-100504 *Lab/Cor Sample No.:* B4771 S6 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	A2	CD	28	28	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	14	D12	CD	29	29	F	1.1	0.08	14			Chrysotile	TAS_AHRA
A	14	D12	CD	30		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
A	14	D12	CD		30	MF	0.8	0.08	10			Chrysotile	
A	15	D32	AQ	31	31	F	4.5	0.45	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D32	AQ	32	32	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D32	CD	33	33	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	15	D32	CD	34	34	F	6	0.1	60			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	16	D41	CD	35	35	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	16	D41	CD	36	36	F	4.2	0.08	52			Chrysotile	TAS_AHRA
A	16	D41	CD	37	37	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	17	D21	CD	38	38	F	0.5	0.05	10			Chrysotile	TAS_AHRA
A	17	D21	AQ	39	39	F	6	1.2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	D21	CD	40	40	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	17	D21	AQ	41	41	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	18	D1	CD	42	42	F	1	0.1	10			Chrysotile	TAS_AHRA
A	18	D1	CD	43		MD1-0	4	3.5	1.1			Chrysotile	TAS_AHRA
A	18	D1	CD		43	MF	1.5	0.12	12			Chrysotile	
A	19	A11	AQ	44	44	F	9	2	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	A11	CD	45	45	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	20	A31	CD	46	46	F	2	0.4	5.0			Mg, Al, Si, Ca, Fe Chrysotile	TAS_AHRA
A	20	A31	CD	47	47	F	1	0.08	12			Chrysotile	TAS_AHRA
A	21	A40	CD	48	48	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	21	A40	AQ	49	49	F	1.3	0.25	5.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	22	A20	CD	50		MD1-0	4.5	1.2	3.7			Chrysotile	TAS_AHRA
A	22	A20	CD		50	MB	1.8	0.12	15			Chrysotile	
A	22	A20	AQ	51	51	F	1	0.25	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	23	A10	AQ	52	52	F	1.8	0.3	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	24	B10	AQ	53	53	F	8	1	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-2CC-100504 *Lab/Cor Sample No.:* B4771 S6 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	'Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	24	B10	AQ	54	54	F	4.8	1.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	24	B10	AQ	55	55	F	20	1.8	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	25	B30	CD	56	56	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	25	B30	AQ	57	57	F	1.2	0.35	3.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	25	B30	CD	58	58	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	26	B31	CD	59	59	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	27	B21	CD	60	60	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	28	B1	AQ	61	61	F	10	0.7	14			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	C11	AQ	62		MD1-0	3	1.5	2.0			Actinolite	TAS_AHRA
A	29	C11	AQ		62	MF	3	0.55	5.5			Mg, Al, Si, Ca, Fe Actinolite	
A	30	C31	CD	63	63	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	30	C31	AQ	64	64	F	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	30	C31	AQ	65	65	F	4.3	1.2	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	30	C31	CD	66	66	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	30	C31	AQ	67	67	F	1.8	0.38	4.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	A44	CD	68	68	F	1	0.1	10			Chrysotile	TAS_AHRA
B	31	A44	CD	69	69	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	32	A24	AQ	70	70	F	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A4	AQ	71		MD1-0	3.8	1.8	2.1			Tremolite	TAS_AHRA
B	33	A4	AQ		71	MF	3.8	0.35	11			Mg, Al, Si, Ca, Fe Tremolite	
B	33	A4	AQ	72	72	F	3.8	0.5	7.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A4	CD	73	73	F	1	0.08	12			Chrysotile	TAS_AHRA
B	33	A4	CD	74	74	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	34	D14	CD	75	75	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	35	D34	AQ	76	76	F	3.7	0.7	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	35	D34	CD	77	77	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	36	D43	CD	78	78	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	36	D43	CD	79		MD1-0	3	1.2	2.5			Chrysotile	TAS_AHRA
B	36	D43	CD		79	MF	0.8	0.1	8.0			Chrysotile	
B	37	D13	CD	80	80	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	37	D13	CD	81	81	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	37	D13	AQ	82	82	F	2.7	0.5	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-2CC-100504 *Lab/Cor Sample No.:* B4771 S6 A1

Descripiton:

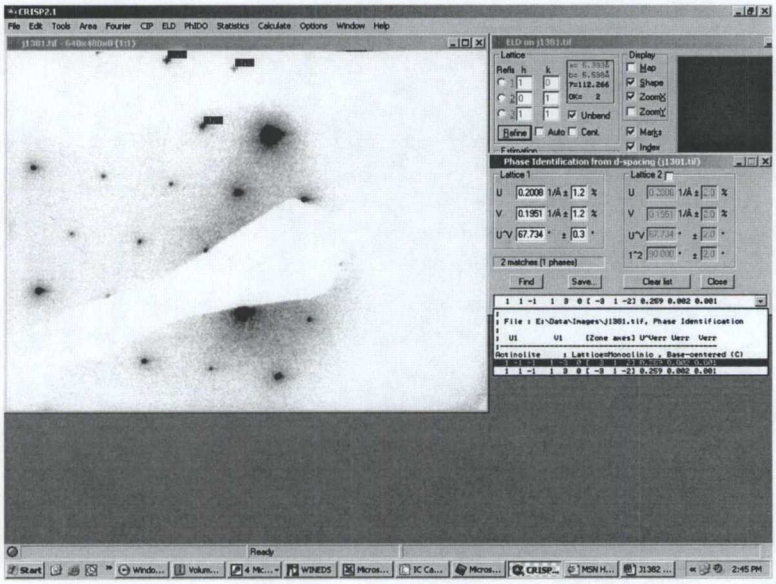
Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	38	D3	CD	83	83	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	38	D3	AQ	84	84	F	6.8	2.2	3.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	39	A13	CMQ	85	85	F	1	0.12	8.3			Chrysotile	TAS_AHRA
B	39	A13	AQ	86	86	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	39	A13	CD	87	87	F	1	0.1	10			Chrysotile	TAS_AHRA
B	39	A13	AQ	88		MD1-1	14	5	2.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	39	A13	AQ		88	MF	9	1.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	40	A33	CD	89	89	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	40	A33	CD	90	90	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	41	A42	CD	91	91	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	41	A42	CD	92	92	F	1	0.1	10			Chrysotile	TAS_AHRA
B	41	A42	CD	93	93	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	42	A22	CD	94	94	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	42	A22	CD	95	95	F	1	0.12	8.3			Chrysotile	TAS_AHRA
B	42	A22	AQ	96	96	B	18	4	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	42	A22	CD	97	97	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	42	A22	CD	98	98	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	42	A22	CD	99	99	F	1	0.1	10			Chrysotile	TAS_AHRA
B	42	A22	CD	100	100	F	1.8	0.1	18			Chrysotile	TAS_AHRA

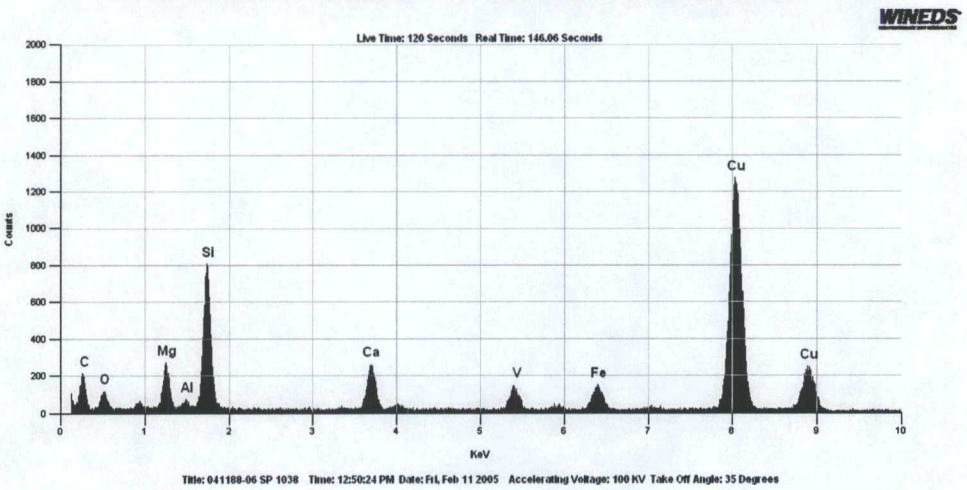
ACTINOLITE

Zone Axis [3 1 2]

Gatan Image

Neg# J1381 Job# 041188-06





Quantitative Analysis Results - Standardless Analysis :

041188-06 SP 1038 Fri, Feb 11 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 21.57

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.10	MgO	12.88	0.80	12.88
Al	0.51	Al2O3	1.16	0.30	1.16
Si	20.84	SiO2	56.39	2.00	56.39
Ca	6.04	CaO	15.26	1.18	15.26
Fe	3.98	Fe2O3	14.31	2.02	14.31
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	56.39	Si+4	7.9868	7.9868							
Al2O3	1.16	Al+3	0.1936	0.0132	0.1805						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	14.31	Fe+3	0.0153			0.0153	0.0000				
MgO	12.88	Mg+2	2.7197			2.7197	0.0000				
MnO	0	Fe+2	1.6778			1.6778	0.0000				
CaO	15.26	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	2.3155					2.0000	0.3155		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.1805	C site	0.0000	B site	0.315523	A site	0
			Total	8		4.5932		2.0000		0.0000	0.0000
			%Fill	100		91.8641		100			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-06-1038

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.62	(Mg/(Mg+Fe2))< 0.9
Si	7.99	

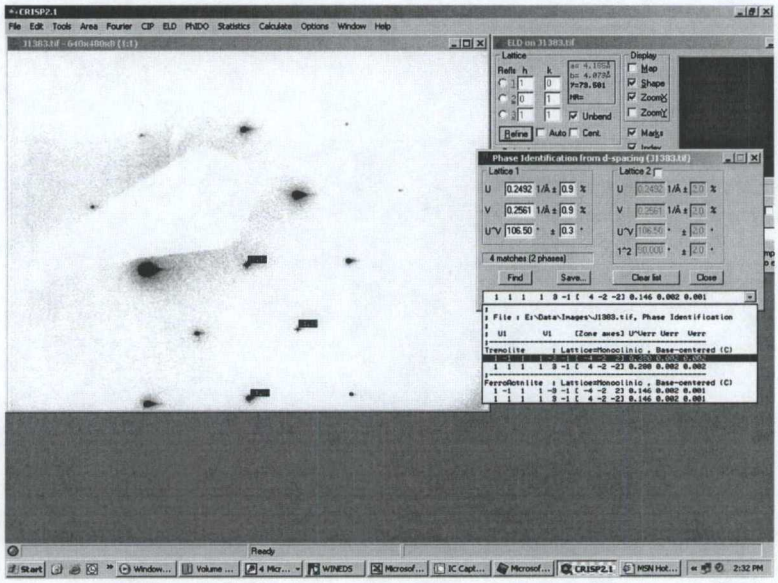
Mineral Analysis Program (Version 5.0)

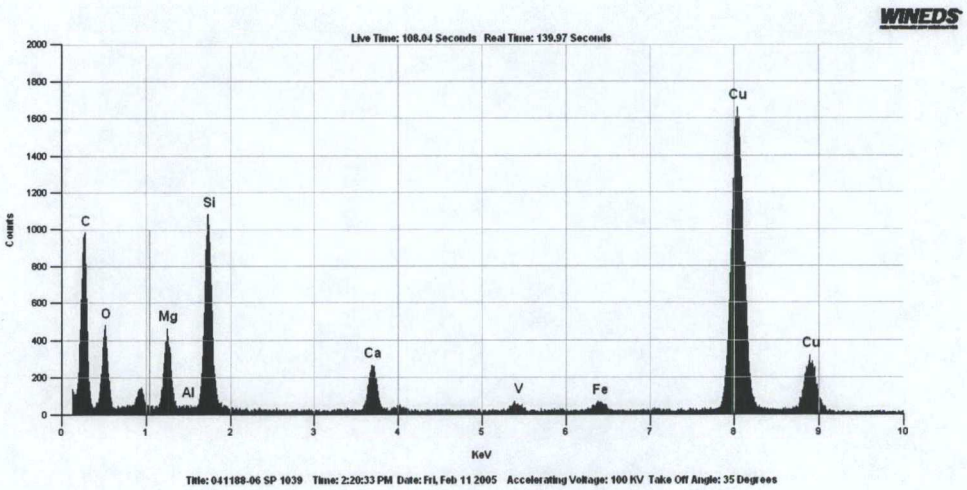
TREMOLITE

Zone Axis [-2 -1 1]

Gatan Image

Neg# J1382 Job# 041188-06





Quantitative Analysis Results - Standardless Analysis :

041188-06 SP 1039 Fri, Feb 11 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 96.73

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.26	MgO	17.60	0.89	17.60
Si	22.71	SiO2	64.30	1.98	64.30
Ca	5.37	CaO	14.20	1.02	14.20
Fe	1.04	Fe2O3	3.90	1.27	3.90
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	64.3	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	0.0000						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.9	Fe+3	0.0540			0.0540	0.0000				
MgO	17.6	Mg+2	3.6803			3.6803	0.0000				
MnO	0	Fe+2	0.5398			0.5398	0.0000				
CaO	14.2	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	2.1614					2.0000	0.1614		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0000	C site	0.0000	B site	0.1613811	A site	0
			Total	8		4.2741		2.0000		0.0000	0.0000
			%Fill	100		85.4814		100			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # 041188-06-1039

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.87	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S7 A1
Client Sample No. CC2-L6-3CC-100504
Description
Analysis Date 2/14/2005
Analyst KM

Volume (L) 900.33
No. of Grid Openings 69
Filter Area (mm2) 193
Area Analyzed (mm2) 1.00
Analytical Sens. (struc/cc) 0.00172
Dectection Limit. (struc/cc) 0.00513

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	101.0	0.173	0.140 - 0.209 (Poisson)	101
Total Asbestos Structures	101.0	0.173	0.140 - 0.209 (Poisson)	101
Asbestos Structures > 5um	25.0	0.0429	0.0277 - 0.0633	25
Asbestos Fibers and Bundles > 5um	22.0	0.0377	0.0236 - 0.0571	22
PCM Equivalent Fibers-US	20.0	0.0343	0.0210 - 0.0530	20
PCM Equivalent Structures-ISO	16.0	0.0274	0.0157 - 0.0446	16
PROTOCOL ASB STRUCS 5-10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL ASB STRUCS >10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL ASB STRUCS TOTAL	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00513	0.00 - 0.00513	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00513	0.00 - 0.00513	0
AHERA-like Total Structures 3:1	101.0	0.173	0.140 - 0.209 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	25.0	0.0429	0.0277 - 0.0633	25
AHERA-like Asb Strucs 5 - 10 and 3:1	12.0	0.0206	0.0106 - 0.0360	12
AHERA-like Asb Strucs >10 and 3:1	13.0	0.0223	0.0119 - 0.0381	13
Total Other Amphibole Strucs 3:1	0.0	<0.00513	0.00 - 0.00513	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00513	0.00 - 0.00513	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00513	0.00 - 0.00513	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00513	0.00 - 0.00513	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A44	CD	1	1	F	3.8	0.1	38	1383		Chrysotile Verified - JH	TAS_AHRA
A	1	A44	AQ	2	2	F	4.2	0.65	6.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	A24	CD	3	3	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	3	A4		NSD									
A	4	D14		NSD									
A	5	D34	CD	4	4	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	5	D34	CD	5	5	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	5	D34	AQ	6	6	F	4.2	0.66	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	D34	AQ	7	7	F	4.2	0.4	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	D34	AQ	8	8	F	1.85	0.6	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	D43		NSD									
A	7	D23		NSD									
A	8	D3	AQ	9	9	F	4.5	0.75	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	A13	CD	10	10	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	9	A13	CD	11	11	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	A33	AQ	12	12	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	A33	AQ	13	13	F	18	0.8	22			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	10	A33	CD	14	14	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	11	A43		NSD									
A	12	A41		NSD									
A	13	A21	AQ	15	15	F	10.6	0.8	13			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	14	A1	AZQ	16	16	F	2.5	0.5	5.0	1387	1044	Mg, Si, Ca, Fe Tremolite Zone Axis [3 0 2] - JH	TAS_AHRA
A	14	A1	AQ	17	17	F	3.2	0.6	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D11	AQ	18	18	F	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D11	CDQ	19	19	F	1.2	0.08	15	1388	1045	Mg, Si Chrysotile Verified - JH	TAS_AHRA
A	16	D31		NSD									
A	17	D20	CD	20	20	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	17	D20	AQ	21	21	F	4.5	0.8	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	18	D40	AQ	22	22	F	18	4.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	19	C30		NSD									
A	20	A40	CD	23	23	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	20	A40	AQ	24		MD1-0	6	2.5	2.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	20	A40	AQ		24	MF	4.2	0.9	4.7			Mg, Al, Si, Ca, Fe Actinolite Ferri-actinolite	
A	20	A40	CD	25	25	F	1.1	0.1	11			Chrysotile	TAS_AHRA
A	21	B30		NSD									
A	22	B10	CD	26	26	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	23	C1	AQ	27	27	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	23	C1	AQ	28	28	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA-
A	24	C11	AQ	29		MD1-1	16	10	1.6			Actinolite	AS>5, TAS_AHRA, AS>5-AHRA, AS>10_AHRA
A	24	C11	AQ		29	MF	7	0.8	8.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	24	C11	AQ	30		MD1-1	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	24	C11	AQ		30	MF	8	2	4.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	24	C11	CD	31		MD1-0	1.5	0.8	1.9			Chrysotile	TAS_AHRA
A	24	C11	CD		31	MF	1.5	0.1	15			Chrysotile	
A	24	C11	CD	32	32	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	25	C41	CD	33	33	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	26	B32		NSD									
A	27	B14	AQ	34	34	F	3	0.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	27	B14	CD	35	35	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	28	A44	CD	36	36	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	29	A34	CD	37	37	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	30	D34	CD	38	38	F	1	0.08	12			Chrysotile	TAS_AHRA
B	30	D34	CD	39	39	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	30	D34	CD	40	40	F	1	0.1	10			Chrysotile	TAS_AHRA
B	30	D34	CD	41		MD1-0	1.7	1	1.7			Chrysotile	TAS_AHRA
B	30	D34	CD		41	MF	1.5	0.22	6.8			Mg, Al, Si, Ca, Fe Chrysotile	
B	30	D34	CD	42	42	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	31	A33	CD	43	43	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	31	A33	CD	44	44	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	32	A13		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	33	D3	AQ	45	45	F	8	2.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	D3	CD	46	46	F	1	0.1	10			Chrysotile	TAS_AHRA
B	34	D23	AZQ	47	47	F	9.2	1.3	7.1	1390	1046	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [1 0 1] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	34	D23	AQ	48	48	F	6.3	0.8	7.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	D43	CD	49	49	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	36	A42	CD	50	50	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	37	A22	AQ	51		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
B	37	A22	AQ		51	MF	1.7	0.35	4.9			Mg, Al, Si, Ca, Fe Actinolite	
B	37	A22	CD	52	52	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	38	D12	CDQ	53	53	B	1.3	0.18	7.2			Mg, Si Chrysotile	TAS_AHRA
B	39	D22	CD	54	54	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	40	A31	AQ	55	55	F	4.7	0.55	8.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	41	A11		NSD									
B	42	D1	CD	56	56	F	1	0.1	10			Chrysotile	TAS_AHRA
B	43	D21	CD	57	57	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	43	D21	CD	58		MD1-1	7	1.8	3.9			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	43	D21	CMQ		58	MB	6	0.6	10			Mg, Si Chrysotile	AFB>5, PCMEF-US
B	44	D41	CD	59	59	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	44	D41	AQ	60	60	F	10.2	3	3.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	D41	AQ	61	61	F	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	45	D30	AQ	62	62	F	14	4	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	45	D30	AQ	63	63	F	13.5	2.5	5.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	46	D40	CD	64	64	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	46	D40	CD	65	65	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	46	D40	AQ	66		MD1-1	8.5	4	2.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	D40	AQ		66	MF	8	2	4.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	47	C30	CD	67	67	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	48	C40	AQ	68		MD1-1	13	6	2.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	48	C40	AQ		68	MF	7	0.7	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	48	C40	AQ	69		MD1-0	3.5	0.8	4.4			Actinolite	TAS_AHRA
B	48	C40	AQ		69	MF	3	0.25	12			Mg, Al, Si, Ca, Fe Actinolite	
B	49	A40		NSD									
B	50	B40	CD	70	70	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	50	B40	CD	71	71	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	51	B30	CD	72	72	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	52	B20	CD	73	73	B	2.8	0.38	7.4			Chrysotile	TAS_AHRA
B	52	B20	AQ	74	74	F	3.8	0.5	7.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	52	B20	AQ	75		MD1-0	7	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	52	B20	AQ		75	MF	4.5	0.5	9.0			Mg, Al, Si, Ca, Fe Actinolite	
B	52	B20	AQ	76	76	F	5	0.7	7.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	52	B20	CD	77	77	F	1	0.08	12			Chrysotile	TAS_AHRA
B	53	B10		NSD									
B	54	B31	AQ	78		MD1-1	13.5	8	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	54	B31	AQ		78	MF	13.5	1.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	54	B31	AQ	79	79	F	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	B31	CD	80	80	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	54	B31	AQ	81	81	F	3.2	0.8	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	55	B11		NSD									
B	56	C1	AQ	82	82	F	2.5	0.45	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	56	C1	CD	83	83	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	57	C31		NSD									
B	58	B32	AQ	84	84	F	1.85	0.6	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	58	B32	CD	85		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
B	58	B32	CD		85	MF	1.2	0.1	12			Chrysotile	
B	59	B12	AQ	86		MD1-0	10	3	3.3			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	B12	AQ		86	MF	4	0.4	10			Mg, Al, Si, Ca, Fe Actinolite	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

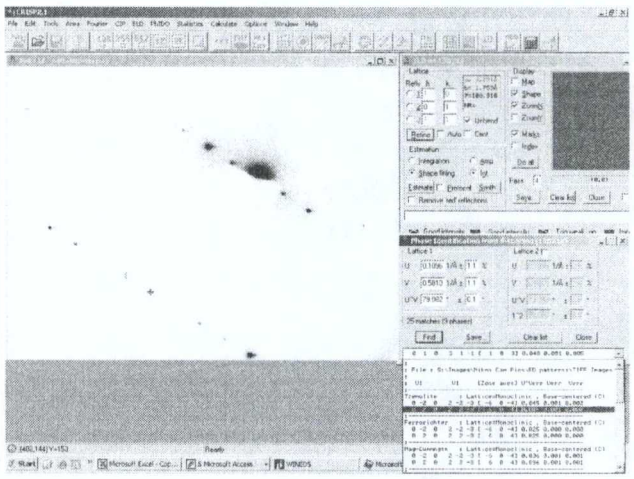
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

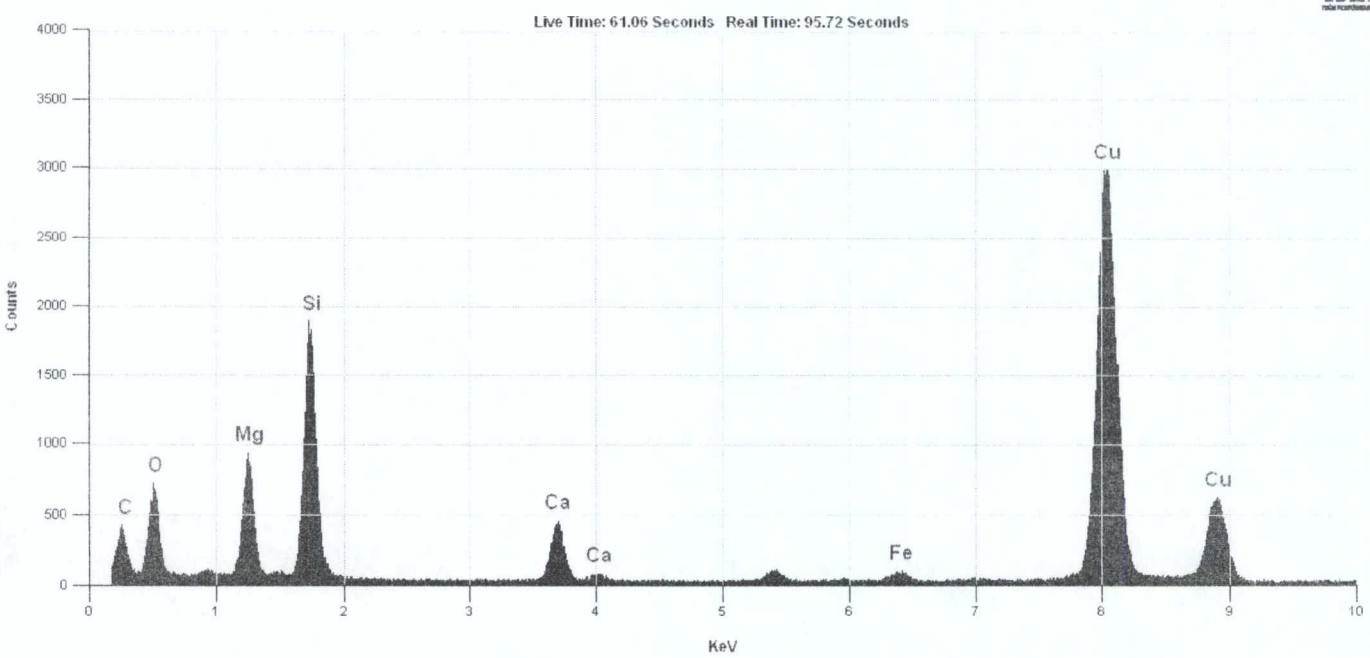
Sample No.: CC2-L6-3CC-100504 *Lab/Cor Sample No.:* B4771 S7 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	60	C2	AQ	87	87	F	5.6	0.8	7.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	61	C22		NSD									
B	62	C42	AQ	88	88	F	1.7	0.45	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	62	C42	CD	89	89	F	1.8	0.11	16			Chrysotile	TAS_AHRA
B	63	B13		NSD									
B	64	B3	CD	90	90	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	64	B3	AQ	91	91	F	4.2	0.55	7.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	65	C13	CD	92	92	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
B	65	C13	CD	93	93	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	66	C4	AQ	94	94	F	12	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	66	C4	CD	95	95	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	67	C14	AQ	96	96	F	18	1.8	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	68	B44	CD	97	97	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	68	B44	AQ	98	98	F	2.5	0.35	7.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	69	B34	AQ	99	99	F	12	2.5	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	69	B34	AQ	100	100	F	8	1.2	6.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	69	B34	CD	101	101	F	1.2	0.08	15			Chrysotile	TAS_AHRA

TREMOLITE
041188-07 Indirect, Neg#J1387
[3 0 2]





Title: 041188-07-SPJ1044 Time: 12:43:18 PM Date: Tue, Feb 15 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-07-SPJ1044 Tue, Feb 15 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 52.62
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	11.30	MgO	21.65	0.61	21.65
Si	22.05	SiO2	62.98	1.22	62.98
Ca	4.62	CaO	12.33	0.56	12.33
Fe	0.80	Fe2O3	3.05	0.58	3.05
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.98	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.05	Fe+3	0.0336			0.0336	0.0000				
MgO	21.65	Mg+2	4.3873			4.3873	**0.0000**				
MnO	0	Fe+2	0.4016			0.4016	**0.0000**				
CaO	12.33	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.8330					1.8330	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100.01**		**Excess**	T site	**0.0000**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.8225**		**1.8330**		**0.0000**	**0.0000**
			%Fill	**100**		**96.4497**		**91.6497**			

Prefix none
Name **tremolite**
Modifier none
Group **Calcic Amphibole**

Sample # **041188-07-1044**

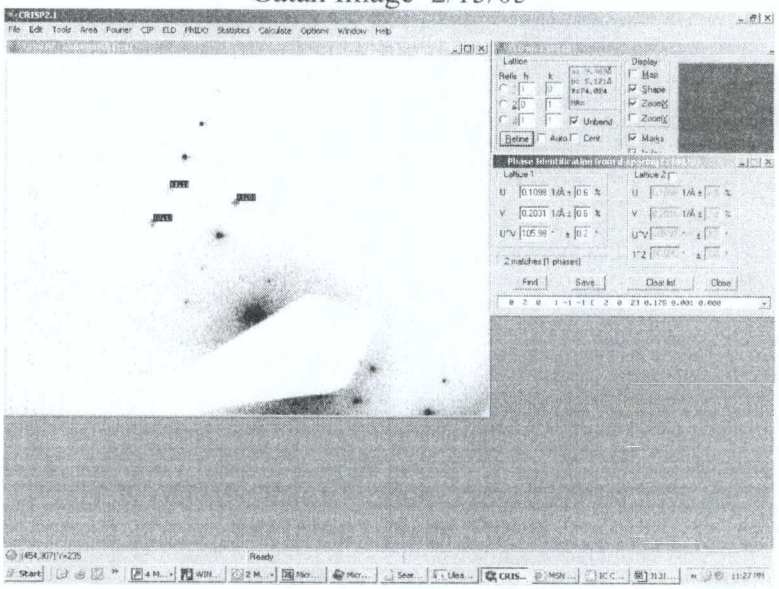
Values		**Satisfied Conditions**
(Ca,Na)@B	**1.83**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.00**	**Ca@B >= 1.5 and (Na,K)@A < 0.5**
Ca@B	**1.83**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.00**	**Si > 7.5**
Mg/(Mg+Fe2)	**0.92**	**(Mg/(Mg+Fe2))>= 0.9**
Si	**8.00**	

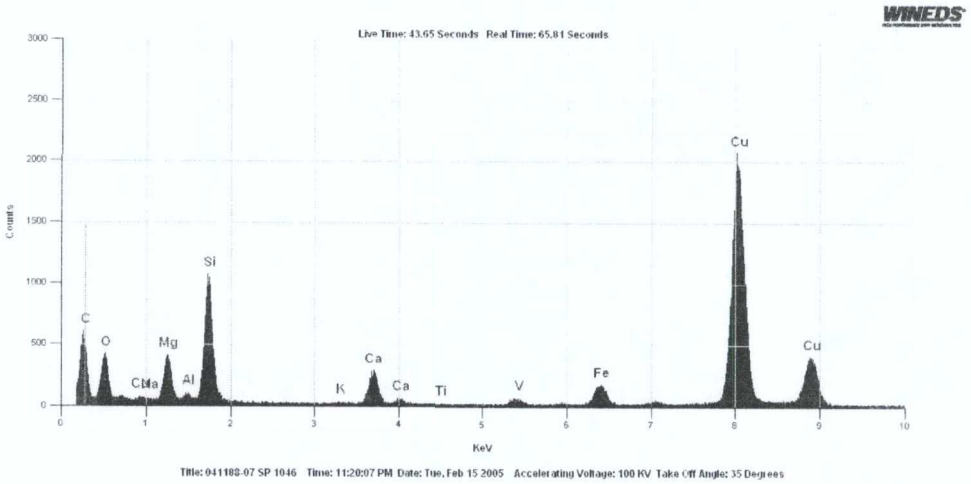
Mineral Analysis Program (Version 5.0)

ACTINOLITE - Zone Axis [1 0 1]

041188-07 Neg# J1390

Gatan Image 2/15/05





Quantitative Analysis Results - Standardless Analysis :

041188-07 SP 1046 Tue, Feb 15 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 105.50

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.34	MgO	15.38	0.61	15.38
Al	0.49	Al2O3	1.15	0.23	1.15
Si	21.26	SiO2	58.43	1.44	58.43
Ca	4.81	CaO	12.34	0.71	12.34
Fe	3.48	Fe2O3	12.70	1.19	12.70
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.43	Si+4	8.0000	8.0000							
Al2O3	1.15	Al+3	0.2011	0.0000	0.2011						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	12.7	Fe+3	0.0216			0.0216	0.0000				
MgO	15.38	Mg+2	3.2156			3.2156	0.0000				
MnO	0	Fe+2	1.4778			1.4778	0.0000				
CaO	12.34	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.8587					1.8587	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.2011	C site	0.0000	B site	0	A site	0
			Total	8		4.9161		1.8587		0.0000	0.0000
			%Fill	100		98.3219		92.9354			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-07-1046

Values		Satisfied Conditions
(Ca,Na)@B	1.86	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.86	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.69	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S8 A1
Client Sample No. CC5-H6-1CP-100604
Description
Analysis Date 2/14/2005
Analyst KM

Volume (L) 2464.87
No. of Grid Openings 15
Filter Area (mm2) 193
Area Analyzed (mm2) 0.217
Analytical Sens. (struc/cc) 0.00144
Dectection Limit. (struc/cc) 0.00431

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	464.7	0.146	0.117 - 0.175 (Poisson)	101
Total Asbestos Structures	464.7	0.146	0.117 - 0.175 (Poisson)	101
Asbestos Structures > 5um	69.0	0.0216	0.0121 - 0.0357	15
Asbestos Fibers and Bundles > 5um	32.2	0.0101	0.00405 - 0.0208	7
PCM Equivalent Fibers-US	27.6	0.00865	0.00317 - 0.0188	6
PCM Equivalent Structures-ISO	32.2	0.0101	0.00405 - 0.0208	7
PROTOCOL ASB STRUCS 5-10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL ASB STRUCS >10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL ASB STRUCS TOTAL	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00431	0.00 - 0.00431	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00431	0.00 - 0.00431	0
AHERA-like Total Structures 3:1	464.7	0.146	0.117 - 0.175 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	69.0	0.0216	0.0121 - 0.0357	15
AHERA-like Asb Strucs 5 - 10 and 3:1	55.2	0.0173	0.00894 - 0.0302	12
AHERA-like Asb Strucs >10 and 3:1	13.8	0.00432	0.00 - 0.0112	3
Total Other Amphibole Strucs 3:1	0.0	<0.00431	0.00 - 0.00431	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00431	0.00 - 0.00431	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00431	0.00 - 0.00431	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00431	0.00 - 0.00431	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B41	CDQ	1		MD1-0	1.8	0.38	4.7			Chrysotile	TAS_AHRA
A	1	B41	CDQ		1	MF	1.8	0.1	18	87	15784	Mg, Si Chrysotile Verified - KM	
A	2	B11	CD	2	2	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	2	B11	CD	3		MD1-0	0.8	0.15	5.3			Chrysotile	TAS_AHRA
A	2	B11	CD		3	MF	0.5	0.08	6.2			Chrysotile	
A	2	B11	CD	4		MD1-0	10	5	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	2	B11	CD		4	MF	1.8	0.1	18			Chrysotile	
A	2	B11	CD	5		MD1-0	4.8	0.45	11			Chrysotile	TAS_AHRA
A	2	B11	CD		5	MF	4	0.1	40			Chrysotile	
A	2	B11	CD	6	6	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	2	B11	CD	7	7	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	2	B11	CD	8		MD1-0	4	3.5	1.1			Chrysotile	TAS_AHRA
A	2	B11	CD		8	MF	1	0.1	10			Chrysotile	
A	2	B11	AQ	9	9	F	4.2	1.2	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	B11	CD	10		MD1-0	1.8	0.5	3.6			Chrysotile	TAS_AHRA
A	2	B11	CD		10	MF	1.2	0.11	11			Chrysotile	
A	2	B11	CD	11	11	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	2	B11	CD	12		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
A	2	B11	CD		12	MF	0.8	0.08	10			Chrysotile	
A	2	B11	CD	13	13	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	2	B11	CD	14		MD1-0	1.8	0.8	2.2			Chrysotile	TAS_AHRA
A	2	B11	CD		14	MF	1.3	0.08	16			Chrysotile	
A	3	A31	CD	15	15	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	3	A31	CD	16	16	F	1.1	0.1	11			Chrysotile	TAS_AHRA
A	3	A31	CD	17	17	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	3	A31	CD	18		MD1-0	7	6	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	A31	CD		18	MF	0.8	0.1	8.0			Chrysotile	
A	3	A31	CD	19	19	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	3	A31	CD	20	20	F	1.7	0.12	14			Chrysotile	TAS_AHRA
A	3	A31	CD	21		MD1-0	1.7	0.2	8.5			Chrysotile	TAS_AHRA
A	3	A31	CD		21	MF	1.5	0.1	15			Chrysotile	
A	3	A31	CD	22	22	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	3	A31	CD	23		MD1-0	9	3	3.0			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	A31	CD		23	MF	4	0.08	50			Chrysotile	
A	3	A31	CD	24		MD1-0	4	0.8	5.0			Chrysotile	TAS_AHRA
A	3	A31	CD		24	MB	2	0.2	10			Chrysotile	
A	4	A11		NSD									
A	5	D1	CD	25	25	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	5	D1	CD	26	26	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	5	D1	CD	27	27	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	5	D1	CD	28	28	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	5	D1	CD	29		MD1-0	1.2	1.2	1.0			Chrysotile	TAS_AHRA
A	5	D1	CD		29	MF	1.2	0.1	12			Chrysotile	
A	5	D1	CD	30	30	F	1.6	0.1	16			Chrysotile	TAS_AHRA
A	5	D1	CD	31	31	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	5	D1	CD	32	32	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
A	6	D21	CD	33	33	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	6	D21	CD	34	34	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	6	D21	AQ	35		MD1-0	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D21	AQ		35	MF	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	
A	6	D21	CD	36	36	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	6	D21	CD	37	37	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	6	D21	CD	38	38	F	2.2	0.1	22			Chrysotile	TAS_AHRA
A	6	D21	CD	39	39	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	6	D21	AZQ	40	40	F	6.5	1.2	5.4	88	15785	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [4 0 3] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D21	CD	41	41	F	1	0.08	12			Chrysotile	TAS_AHRA
A	6	D21	AQ	42	42	F	6.2	1.7	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	7	D30	CD	43		MD1-0	1.3	0.7	1.9			Chrysotile	TAS_AHRA
A	7	D30	CD		43	MF	0.6	0.08	7.5			Chrysotile	
A	7	D30	CD	44	44	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	7	D30	CD	45	45	F	1.5	0.08	19			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	7	D30	CD	46		MD1-0	8	5.6	1.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	7	D30	CD		46	MF	2.5	0.1	25			Chrysotile	
A	7	D30	CD	47	47	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	7	D30	CD	48	48	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	7	D30	CD	49	49	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	7	D30	CD	50	50	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	7	D30	CD	51	51	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	7	D30	AQ	52	52	F	1.85	0.6	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	A10	CD	53	53	B	2.5	0.15	17			Chrysotile	TAS_AHRA
A	8	A10	CD	54	54	F	2.2	0.12	18			Chrysotile	TAS_AHRA
A	8	A10	CD	55	55	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	8	A10	CD	56	56	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	8	A10	CD	57	57	F	1	0.1	10			Chrysotile	TAS_AHRA
A	8	A10	CD	58	58	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	9	B23	CD	59	59	F	1	0.1	10			Chrysotile	TAS_AHRA
A	9	B23	CD	60	60	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	9	B23	CD	61	61	B	3	0.4	7.5			Chrysotile	TAS_AHRA
A	9	B23	CD	62		MD1-0	3	1.5	2.0			Chrysotile	TAS_AHRA
A	9	B23	CD		62	MF	1	0.1	10			Chrysotile	
A	9	B23	CD	63		MD1-0	8	4	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	9	B23	CD		63	MF	2	0.12	17			Chrysotile	
A	9	B23	CD	64	64	F	3.5	0.12	29			Chrysotile	TAS_AHRA
A	10	B13	CD	65	65	F	1	0.1	10			Chrysotile	TAS_AHRA
A	10	B13	CD	66	66	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	B13	CD	67	67	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	10	B13	CD	68		MD1-0	3.5	2.5	1.4			Chrysotile	TAS_AHRA
A	10	B13	CD		68	MF	1.5	0.1	15			Chrysotile	
A	10	B13	CD	69		MD1-0	3	3	1.0			Chrysotile	TAS_AHRA
A	10	B13	CD		69	MF	0.5	0.08	6.2			Chrysotile	
A	11	C33	CD	70	70	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	11	C33	AQ	71	71	F	6.5	0.7	9.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	11	C33	AQ	72		MD1-0	8	5	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	C33	AQ		72	MF	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	
A	11	C33	AQ	73	73	F	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	C33	CD	74	74	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	11	C33	CD	75	75	F	2.6	0.11	24			Chrysotile	TAS_AHRA
A	11	C33	CD	76	76	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	12	A40	AQ	77	77	F	11	1.2	9.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	12	A40	CD	78	78	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	12	A40	CD	79	79	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Chrysotile	TAS_AHRA
B	12	A40	CD	80	80	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	12	A40	CD	81		MD1-0	1.8	1.2	1.5			Chrysotile	TAS_AHRA
B	12	A40	CD		81	MF	0.6	0.1	6.0			Chrysotile	
B	12	A40	CD	82	82	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	13	A20	CD	83	83	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	13	A20	AQ	84		MD1-0	8	8	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	13	A20	AQ		84	MF	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	
B	13	A20	CD	85		MD1-0	0.8	0.5	1.6			Chrysotile	TAS_AHRA
B	13	A20	CD		85	MF	0.8	0.08	10			Chrysotile	
B	13	A20	AQ	86	86	F	12	0.8	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	13	A20	CD	87	87	F	2	0.08	25			Chrysotile	TAS_AHRA
B	13	A20	CD	88	88	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	14	A10	CD	89	89	F	1	0.1	10			Chrysotile	TAS_AHRA
B	14	A10	CD	90	90	F	2	0.1	20			Chrysotile	TAS_AHRA
B	14	A10	CD	91		MD1-0	4.5	3.8	1.2			Chrysotile	TAS_AHRA
B	14	A10	CD		91	MF	0.8	0.08	10			Chrysotile	
B	14	A10	CD	92	92	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	14	A10	AQ	93	93	F	16	4.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	15	C13	AQ	94	94	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	15	C13	CD	95	95	F	0.8	0.08	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

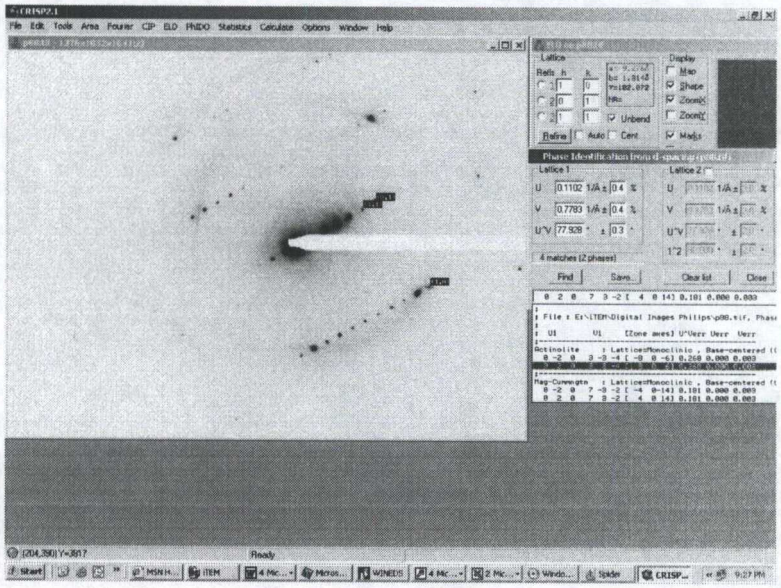
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

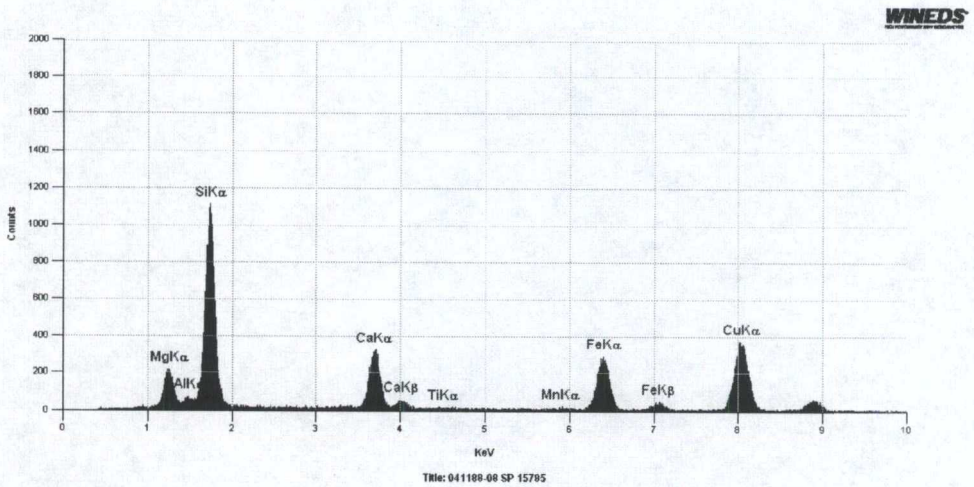
Sample No.: CC5-H6-1CP-100604 *Lab/Cor Sample No.:* B4771 S8 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	15	C13	CD	96		MD1-0	3	2	1.5			Chrysotile	TAS_AHRA
B	15	C13	CD		96	MF	1	0.11	9.1			Chrysotile	
B	15	C13	CD	97	97	F	2.2	0.1	22			Chrysotile	TAS_AHRA
B	15	C13	CD	98	98	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	15	C13	CD	99	99	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	15	C13	CD	100		MD1-0	2.5	1.5	1.7			Chrysotile	TAS_AHRA
B	15	C13	CD		100	MF	0.8	0.1	8.0			Chrysotile	
B	15	C13	CD	101	101	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA

ACTINOLITE
Zone Axis [4 0 3]
Neg# P88 Job# 041188-08
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-08 SP 15785 Mon, Feb 14 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 9.24
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.95	MgO	12.64	0.84	12.64
Al	0.23	Al2O3	0.54	0.20	0.54
Si	21.70	SiO2	58.86	1.58	58.86
Ca	4.18	CaO	10.59	0.62	10.59
Fe	4.82	Fe2O3	17.37	1.19	17.37
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.86	Si+4	8.0000	8.0000							
Al2O3	0.54	Al+3	0.1203	0.0000	0.1203						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.37	Fe+3	0.1849			0.1849	0.0000				
MgO	12.64	Mg+2	2.7235			2.7235	0.0000				
MnO	0	Fe+2	1.8993			1.8993	0.0000				
CaO	10.59	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.6489					1.6489	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.1203	C site	0.0000	B site	0	A site	0
			Total	8		4.9280		1.6489		0.0000	0.0000
			%Fill	100		98.5594		82.4433			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-08-15785

Values		Satisfied Conditions
(Ca,Na)@B	1.65	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.65	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.59	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S9 A1	**Volume (L)**	2465.37
Client Sample No.	CC5-H6-2CP-100604	**No. of Grid Openings**	22
Description		**Filter Area (mm2)**	193
Analysis Date	2/18/2005	**Area Analyzed (mm2)**	0.319
Analyst	KM	**Analytical Sens. (struc/cc)**	0.000982
		Dectection Limit. (struc/cc)	0.00294

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	191.4	0.0599	0.0458 - 0.0770 (Poisson)	61
Total Asbestos Structures	191.4	0.0599	0.0458 - 0.0770 (Poisson)	61
Asbestos Structures > 5um	22.0	0.00688	0.00276 - 0.0142	7
Asbestos Fibers and Bundles > 5um	18.8	0.00589	0.00216 - 0.0128	6
PCM Equivalent Fibers-US	15.7	0.00491	0.00160 - 0.0115	5
PCM Equivalent Structures-ISO	12.5	0.00393	0.00107 - 0.0101	4
PROTOCOL ASB STRUCS 5-10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL ASB STRUCS >10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL ASB STRUCS TOTAL	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00294	0.00 - 0.00294	0
AHERA-like Total Structures 3:1	191.4	0.0599	0.0458 - 0.0770 (Poisson)	61
AHERA-like Asb Strucs >5 and 3:1	22.0	0.00688	0.00276 - 0.0142	7
AHERA-like Asb Strucs 5 - 10 and 3:1	18.8	0.00589	0.00216 - 0.0128	6
AHERA-like Asb Strucs >10 and 3:1	3.1	0.000982	0.00 - 0.00466	1
Total Other Amphibole Strucs 3:1	0.0	<0.00294	0.00 - 0.00294	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00294	0.00 - 0.00294	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00294	0.00 - 0.00294	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00294	0.00 - 0.00294	0

wrong chl. bottle

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-2CP-100604 *Lab/Cor Sample No.:* B4771 S9 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A41	CDQ	1	1	F	0.8	0.1	8.0	1398	1054	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	1	A41	CD	2	2	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	2	A21	CD	3	3	F	1	0.1	10			Chrysotile	TAS_AHRA
A	3	D41	CD	4	4	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	3	D41	AZQ	5	5	F	5.3	1.2	4.4	1399	1055	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [5 1 2] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	B23	CD	6	6	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	4	B23	CD	7	7	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	4	B23	CD	8	8	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	4	B23	AQ	9	9	F	2.5	0.8	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	C22	CD	10	10	F	1	0.08	12			Chrysotile	TAS_AHRA
A	5	C22	AQ	11	11	F	3.8	1.2	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	B42	AQ	12	12	F	24	3.5	6.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	B42	AQ	13	13	F	8	2.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	B42	CD	14	14	F	2	0.1	20			Chrysotile	TAS_AHRA
A	7	B2	CD	15		MD1-0	1.8	1.2	1.5			Chrysotile	TAS_AHRA
A	7	B2	CD		15	MF	0.7	0.1	7.0			Chrysotile	
A	8	B31	CD	16		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
A	8	B31	CD		16	MF	1.5	0.1	15			Chrysotile	
A	8	B31	CD	17	17	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	9	B21	CD	18	18	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	9	B21	CD	19	19	F	1.7	0.1	17			Chrysotile	TAS_AHRA
A	9	B21	CD	20	20	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	D2	CD	21	21	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	11	A12	CD	22	22	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	11	A12	CD	23	23	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	12	B34	CD	24	24	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	12	B34	CD	25	25	B	4.5	0.15	30			Chrysotile	TAS_AHRA
B	12	B34	CD	26	26	B	2.5	0.2	12			Chrysotile	TAS_AHRA
B	13	B14	CD	27	27	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	13	B14	CD	28	28	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	13	B14	CD	29	29	F	2	0.1	20			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-2CP-100604 *Lab/Cor Sample No.:* B4771 S9 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	13	B14	CD	30	30	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	14	B43	CD	31	31	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	14	B43	CD	32	32	F	1	0.08	12			Chrysotile	TAS_AHRA
B	15	B23	CD	33	33	F	0.8	0.05	16			Chrysotile	TAS_AHRA
B	16	C12	CD	34	34	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	16	C12	CD	35	35	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	16	C12	CD	36	36	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	16	C12	CD	37	37	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	17	B11	CD	38	38	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	17	B11	AQ	39		MD1-1	9	5	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	17	B11	AQ		39	MF	8.5	1.5	5.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	17	B11	AQ	40	40	F	9	0.8	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	17	B11	CD	41		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	17	B11	CD		41	MF	2.5	0.1	25			Chrysotile	
B	18	C1	CD	42	42	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	19	C21	CD	43	43	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	19	C21	CD	44	44	F	1.2	0.12	10			Chrysotile	TAS_AHRA
B	19	C21	CD	45	45	B	1.8	0.12	15			Chrysotile	TAS_AHRA
B	19	C21	CD	46	46	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	19	C21	CD	47	47	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	19	C21	CD	48	48	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	19	C21	CD	49	49	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	20	A11	CD	50	50	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	20	A11	CD	51	51	F	0.5	0.05	10			Chrysotile	TAS_AHRA
B	20	A11	CD	52	52	F	1.2	0.08	15			Chrysotile	TAS_AHRA
B	20	A11	AQ	53	53	F	3.2	0.6	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	21	D11	CD	54	54	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	21	D11	CD	55	55	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	21	D11	CD	56	56	F	1.2	0.12	10			Chrysotile	TAS_AHRA
B	21	D11	AQ	57	57	F	5.5	0.75	7.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-H6-2CP-100604 *Lab/Cor Sample No.:* B4771 S9 A1

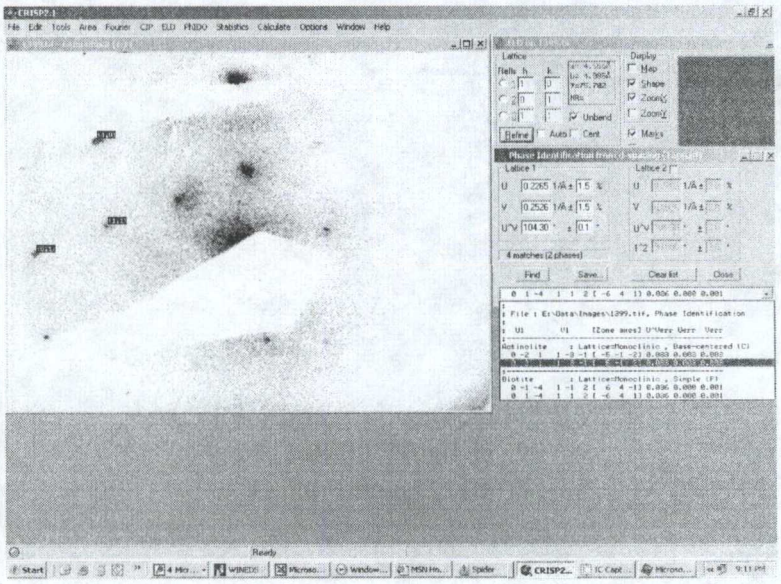
Descripiton:

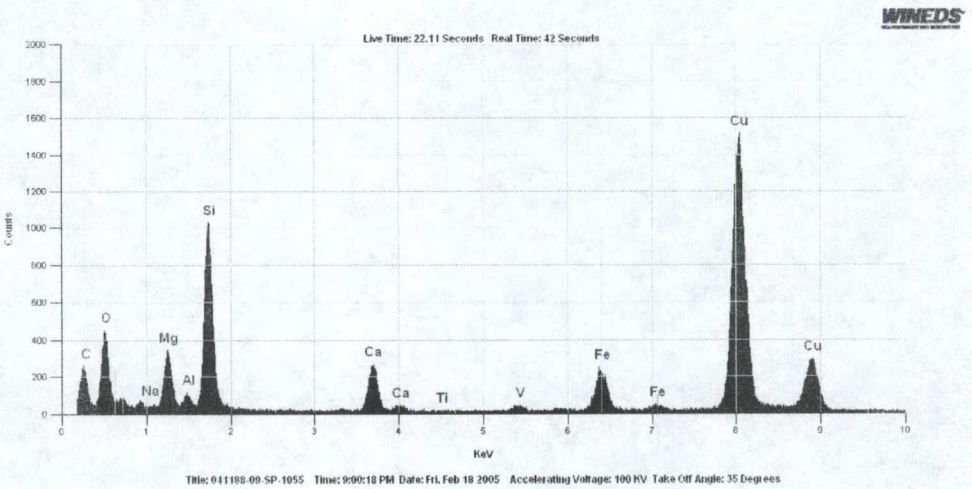
Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	22	A20	CD	58	58	F	1	0.1	10			Chrysotile	TAS_AHRA
B	22	A20	CD	59	59	F	2	0.08	25			Chrysotile	TAS_AHRA
B	22	A20	CD	60	60	F	2.2	0.1	22			Chrysotile	TAS_AHRA
B	22	A20	CD	61	61	F	1.5	0.11	14			Chrysotile	TAS_AHRA

ACTINOLITE - Zone Axis [5 1 2]

041188-09 Neg# J1399

Gatan Image 2/18/05





Quantitative Analysis Results - Standardless Analysis :

041188-09-SP-1055 Fri, Feb 18 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 81.82

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.42	Na2O	0.58	0.33	0.58
Mg	6.83	MgO	12.35	0.56	12.35
Al	0.75	Al2O3	1.72	0.24	1.72
Si	20.56	SiO2	55.37	1.41	55.37
Ca	4.92	CaO	12.38	0.70	12.38
Fe	4.92	Fe2O3	17.61	1.38	17.61
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	55.37	Si+4	7.9201	7.9201							
Al2O3	1.72	Al+3	0.2899	0.0799	**0.2101**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.61	Fe+3	0.0190			0.0190	0.0000				
MgO	12.35	Mg+2	2.6336			2.6336	**0.0000**				
MnO	0	Fe+2	2.0852			2.0852	**0.0000**				
CaO	12.38	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0.58	Ca+2	1.8971					1.8971	0.0000		
K2O	0	Na+	0.1608					0.1029	**0.0580**	0.0580	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100.01**		**Excess**	T site	**0.2101**	C site	**0.0000**	B site	**0.0579834**	A site	**0**
			Total	**8**		**4.9479**		**2.0000**		**0.0580**	**0.0000**
			%Fill	**100**		**98.9572**		**100**			

Prefix none
Name **actinolite**
Modifier none
Group **Calcic Amphibole**

Sample # **041188-09-1055**

Values		**Satisfied Conditions**
(Ca,Na)@B	**2.00**	**(Ca,Na)@B >= 1 and Na@B < 0.5**
Na@B	**0.10**	**Ca@B >= 1.5 and (Na,K)@A < 0.5**
Ca@B	**1.90**	**(Mg/(Mg+Fe2))>= 0.5**
(Na,K)@A	**0.06**	**Si > 7.5**
Mg/(Mg+Fe2)	**0.56**	**(Mg/(Mg+Fe2))< 0.9**
Si	**7.92**	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S12 A1
Client Sample No. CC5-L6-2CB-100604
Description
Analysis Date 2/14/2005
Analyst DW

Volume (L) 903.74
No. of Grid Openings 60
Filter Area (mm2) 193
Area Analyzed (mm2) 0.869
Analytical Sens. (struc/cc) 0.000983
Dectection Limit. (struc/cc) 0.00294

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	64.4	0.0550	0.0416 - 0.0715 (Poisson)	56
Total Asbestos Structures	65.6	0.0560	0.0424 - 0.0726 (Poisson)	57
Asbestos Structures > 5um	8.1	0.00688	0.00276 - 0.0142	7
Asbestos Fibers and Bundles > 5um	5.8	0.00491	0.00160 - 0.0115	5
PCM Equivalent Fibers-US	3.5	0.00295	0.00 - 0.00761	3
PCM Equivalent Structures-ISO	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL ASB STRUCS 5-10	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL ASB STRUCS >10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL ASB STRUCS TOTAL	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL CHRYS STRUCS 5-10	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL CHRYS STRUCS TOTAL	1.2	0.000983	0.00 - 0.00466	1
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00294	0.00 - 0.00294	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00294	0.00 - 0.00294	0
AHERA-like Total Structures 3:1	64.4	0.0550	0.0416 - 0.0715 (Poisson)	56
AHERA-like Asb Strucs >5 and 3:1	8.1	0.00688	0.00276 - 0.0142	7
AHERA-like Asb Strucs 5 - 10 and 3:1	3.5	0.00295	0.00 - 0.00761	3
AHERA-like Asb Strucs >10 and 3:1	4.6	0.00393	0.00107 - 0.0101	4
Total Other Amphibole Strucs 3:1	0.0	<0.00294	0.00 - 0.00294	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00294	0.00 - 0.00294	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00294	0.00 - 0.00294	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00294	0.00 - 0.00294	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-L6-2CB-100604 *Lab/Cor Sample No.:* B4771 S12 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44		NSD									
A	2	B34		NSD									
A	3	B24		NSD									
A	4	B14		NSD									
A	5	B4		NSD									
A	6	C4		NSD									
A	7	C14		NSD									
A	8	C24	AZQ	1		MD1-0	6	6	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	8	C24	AZQ		1	MF	2	0.25	8.0	89	15786	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 -1 2] - KM	
A	9	C22	CDQ	2	2	F	2.5	0.1	25	90	15787	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	9	C22	CD	3	3	F	1	0.1	10			Chrysotile	TAS_AHRA
A	9	C22	CD	4	4	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	C12	CD	5	5	F	1	0.1	10			Chrysotile	TAS_AHRA
A	11	C2		NSD									
A	12	B2		NSD									
A	13	B12		NSD									
A	14	B22	AQ	6		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	14	B22	AQ		6	MF	15	0.65	23			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	15	B32	CD	7	7	F	1	0.1	10			Chrysotile	TAS_AHRA
A	16	B42	AQ	8	8	F	9.5	2.5	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	B40		NSD									
A	18	B30	CD	9	9	F	1	0.1	10			Chrysotile	TAS_AHRA
A	18	B30	CD	10	10	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	19	B20	CD	11	11	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
A	20	B10	CD	12	12	F	1	0.1	10			Chrysotile	TAS_AHRA
A	21	C10	CD	13	13	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	22	C20	CD	14	14	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	22	C20	CD	15	15	F	1	0.1	10			Chrysotile	TAS_AHRA
A	23	C30		NSD									
B	24	B34	CD	16	16	F	1.2	0.1	12			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-L6-2CB-100604 *Lab/Cor Sample No.:* B4771 S12 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	25	B33	CD	17		MD2-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	25	B33	CD		17	MB	2.5	0.2	12			Chrysotile	
B	25	B33	CD		18	MB	2	0.2	10			Chrysotile	
B	25	B33	CD	18	19	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	26	B32	CD	19	20	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	27	B31	CD	20		MD1-1	25	20	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	27	B31	CD		21	MF	5.5	0.1	55			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	27	B31	CD	21	22	F	1	0.1	10			Chrysotile	TAS_AHRA
B	27	B31	CD	22	23	F	1	0.1	10			Chrysotile	TAS_AHRA
B	27	B31	CD	23	24	F	1	0.1	10			Chrysotile	TAS_AHRA
B	28	B30	CD	24	25	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	29	A30		NSD									
B	30	A31		NSD									
B	31	A21	CD	25	26	F	1	0.1	10			Chrysotile	TAS_AHRA
B	31	A21	CD	26	27	F	1.3	0.1	13			Chrysotile	TAS_AHRA
B	32	A11		NSD									
B	33	A1	AQ	27	28	F	1.2	0.25	4.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A1	AQ	28	29	F	1.2	0.2	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A1	CD	29	30	F	4	0.1	40			Chrysotile	TAS_AHRA
B	34	D1	CD	30	31	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	34	D1	CD	31	32	F	1	0.1	10			Chrysotile	TAS_AHRA
B	34	D1	CD	32	33	F	1	0.1	10			Chrysotile	TAS_AHRA
B	34	D1	CD	33	34	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	35	D11	CD	34	35	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	36	D21	CD	35	36	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	37	D31		NSD									
B	38	D41		NSD									
B	39	B42	CD	36	37	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
B	40	B32		NSD									
B	41	B22	AQ	37	38	F	2.5	0.5	5.0			Actinolite	TAS_AHRA
B	41	B22	CD	38	39	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	42	B12		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: CC5-L6-2CB-100604 *Lab/Cor Sample No.:* B4771 S12 A1

Descripiton:

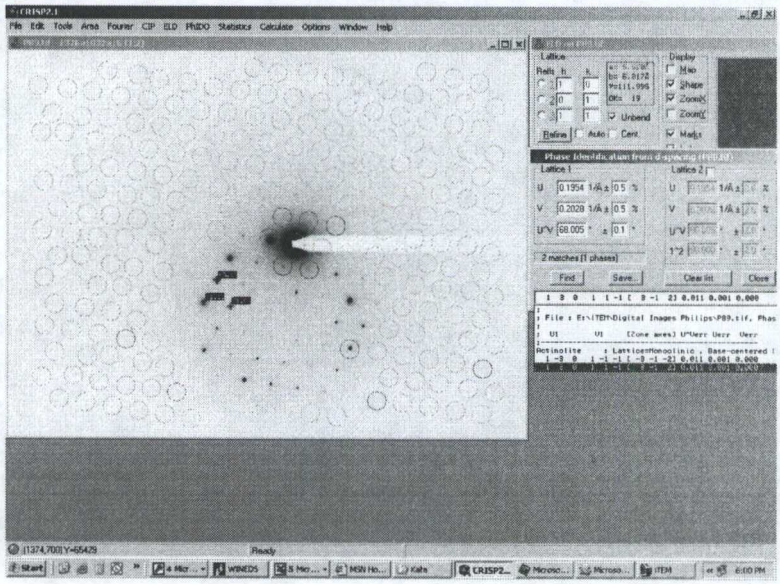
Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	43	B2	CD	39	40	F	1	0.1	10			Chrysotile	TAS_AHRA
B	44	C2	AQ	40	41	F	17	4.5	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	C2	CD	41	42	F	1	0.1	10			Chrysotile	TAS_AHRA
B	44	C2	CD	42	43	F	1	0.1	10			Chrysotile	TAS_AHRA
B	44	C2	CD	43	44	F	1	0.1	10			Chrysotile	TAS_AHRA
B	45	C12		NSD									
B	46	C22		NSD									
B	47	C42	CD	44	45	F	1	0.1	10			Chrysotile	TAS_AHRA
B	48	C32		NSD									
C	49	B41		NSD									
C	50	B31	CD	45	46	F	2	0.1	20			Chrysotile	TAS_AHRA
C	50	B31	CD	46	47	F	1	0.1	10			Chrysotile	TAS_AHRA
C	50	B31	CD	47	48	F	1	0.1	10			Chrysotile	TAS_AHRA
C	51	B21		NSD									
C	52	B11	CD	48	49	F	1	0.1	10			Chrysotile	TAS_AHRA
C	52	B11	CD	49	50	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	53	B1	CD	50	51	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	53	B1	CD	51	52	F	1	0.1	10			Chrysotile	TAS_AHRA
C	53	B1	CD	52	53	F	1	0.1	10			Chrysotile	TAS_AHRA
C	54	C11	CD	53		MD1-0	5	5	1.0			Chrysotile	TAS_AHRA
C	54	C11	CD		54	MB	1.2	0.3	4.0			Chrysotile	
C	55	C1		NSD									
C	56	C21	CD	54	55	F	1	0.1	10			Chrysotile	TAS_AHRA
C	57	C31	CD	55	56	F	1	0.1	10			Chrysotile	TAS_AHRA
C	58	C41		NSD									
C	59	C40	AQ	56		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	59	C40	AQ		57	MF	8	1.3	6.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	60	C30		NSD									

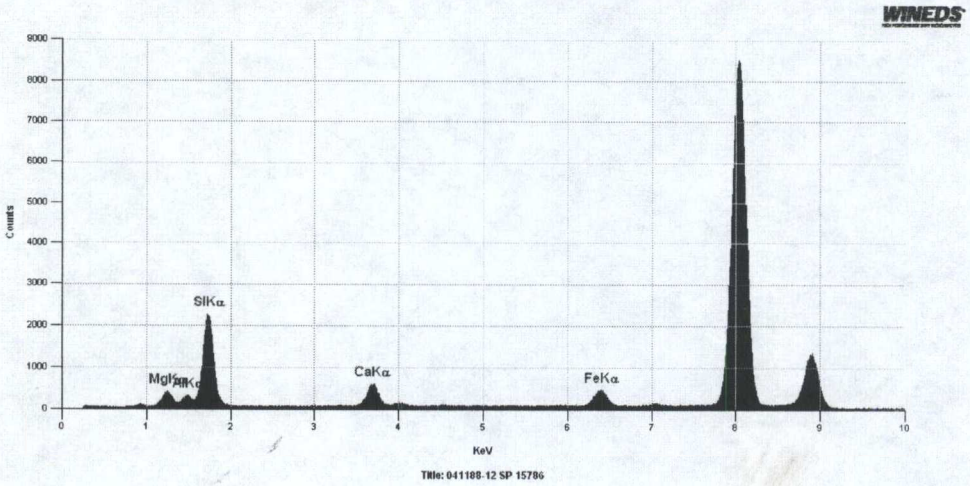
ACTINOLITE

Zone Axis [3 -1 2]

Neg# P89 Job# 041188-12

iTEM Image





Quantitative Analysis Results - Standardless Analysis :

041188-12 SP 15786 Tue, Feb 15 2005

EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 13.65

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.64	MgO	12.46	0.49	12.46
Al	1.29	Al2O3	3.05	0.17	3.05
Si	23.06	SiO2	64.50	0.83	64.50
Ca	3.62	CaO	9.46	0.29	9.46
Fe	2.83	Fe2O3	10.53	0.48	10.53
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	64.5	Si+4	8.0000	8.0000							
Al2O3	3.05	Al+3	0.5548	0.0000	0.5548						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	10.53	Fe+3	0.0579			0.0579	0.0000				
MgO	12.46	Mg+2	2.6721			2.6721	0.0000				
MnO	0	Fe+2	1.2711			1.2711	0.0000				
CaO	9.46	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.4903					1.4903	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.5548	C site	0.0000	B site	0	A site	0
			Total	8		4.5559		1.4903		0.0000	0.0000
			%Fill	100		91.119		74.5151			

Prefix none
Name probable actinolite Ca values below optimal levels
Modifier none
Group Calcic Amphibole

Sample # 041188-12-15786

Values		Satisfied Conditions
(Ca,Na)@B	1.49	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	1 < Ca@B < 1.5 and (Na,K)@A < 0.5
Ca@B	1.49	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.68	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S15 A1
Client Sample No. NFB-H2-3FD-100504
Description
Analysis Date 2/15/2005
Analyst TM

Volume (L) 605.59
No. of Grid Openings 88
Filter Area (mm2) 193
Area Analyzed (mm2) 1.28
Analytical Sens. (struc/cc) 0.00100
Dectection Limit. (struc/cc) 0.00299

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	7.1	0.00900	0.00411 - 0.0171	9
Total Asbestos Structures	7.1	0.00900	0.00411 - 0.0171	9
Asbestos Structures > 5um	3.1	0.00400	0.00109 - 0.0102	4
Asbestos Fibers and Bundles > 5um	2.4	0.00300	0.00 - 0.00775	3
PCM Equivalent Fibers-US	2.4	0.00300	0.00 - 0.00775	3
PCM Equivalent Structures-ISO	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS 5-10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL ASB STRUCS TOTAL	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS 5-10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS TOTAL	0.8	0.00100	0.00 - 0.00474	1
AHERA-like Total Structures 3:1	7.1	0.00900	0.00411 - 0.0171	9
AHERA-like Asb Strucs >5 and 3:1	3.1	0.00400	0.00109 - 0.0102	4
AHERA-like Asb Strucs 5 - 10 and 3:1	0.8	0.00100	0.00 - 0.00474	1
AHERA-like Asb Strucs >10 and 3:1	2.4	0.00300	0.00 - 0.00775	3
Total Other Amphibole Strucs 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-H2-3FD-100504 *Lab/Cor Sample No.:* B4771 S15 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B24		NSD									
A	2	B22		NSD									
A	3	B20		NSD									
A	4	A21		NSD									
A	5	A23	AQ	1		MD1-1	15.2	11.5	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	5	A23	AQ		1	MF	15.2	1.5,	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	6	A12		NSD									
A	7	A10		NSD									
A	8	B11		NSD									
A	9	B13		NSD									
A	10	B4		NSD									
A	11	B2		NSD									
A	12	A1		NSD									
A	13	A3	AZQ	2	2	F	2.1	0.25	8.4	5875	15794	Mg, Si, Ca, Fe Actinolite Zone Axis [0 2 5] - KM	TAS_AHRA
A	14	D2		NSD									
A	15	C1		NSD									
A	16	C14		NSD									
A	17	C10		NSD									
A	18	D11		NSD									
A	19	D13		NSD									
A	20	D24		NSD									
A	21	D22		NSD									
A	22	D20		NSD									
A	23	C21		NSD									
A	24	C23		NSD									
A	25	C34		NSD									
A	26	C32		NSD									
A	27	C30		NSD									
A	28	D31		NSD									
A	29	D33		NSD									
A	30	D42		NSD									
B	31	C44	CDQ	3	3	F	0.75	0.1	7.5	93	15796	Mg, Si, Fe Chrysotile iTEM Image - Verified - KM	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-H2-3FD-100504 *Lab/Cor Sample No.:* B4771 S15 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	C42	AQ	4	4	F	5.3	0.25	21			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C40		NSD									
B	34	D41		NSD									
B	35	D43		NSD									
B	36	D32	CD	5	5	F	1.2	0.1	12	94		Chrysotile ITEM Image - Verified - KM	TAS_AHRA
B	37	A41		NSD									
B	38	A31		NSD									
B	39	A21		NSD									
B	40	A11	CD	6		MD1-0	25	20	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	40	A11	CD		6	MB	2.5	0.2	12			Chrysotile	
B	41	A1		NSD									
B	42	D1		NSD									
B	43	D11		NSD									
B	44	D21		NSD									
B	45	D41		NSD									
B	46	A22		NSD									
B	47	A12		NSD									
B	48	A2		NSD									
B	49	D2		NSD									
B	50	D12		NSD									
B	51	D22		NSD									
B	52	D42		NSD									
B	53	B41		NSD									
B	54	B31		NSD									
B	55	B21		NSD									
B	56	B11		NSD									
B	57	B1		NSD									
B	58	C1		NSD									
B	59	C11		NSD									
B	60	C21		NSD									
B	61	C31		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-H2-3FD-100504 *Lab/Cor Sample No.:* B4771 S15 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	62	B44		NSD									
C	63	B34		NSD									
C	64	B24		NSD									
C	65	B14		NSD									
C	66	B4		NSD									
C	67	C14	AQ	7		MD1-1	15	7.5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	67	C14	AQ		7	MF	12.5	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	68	C4		NSD									
C	69	C24		NSD									
C	70	C34		NSD									
C	71	C44		NSD									
C	72	B42		NSD									
C	73	B32		NSD									
C	74	B22		NSD									
C	75	B12		NSD									
C	76	B2		NSD									
C	77	C2		NSD									
C	78	C12		NSD									
C	79	C22		NSD									
C	80	C32		NSD									
C	81	C42		NSD									
C	82	B40	CD	8	8	F	1	0.1	10			Chrysotile	TAS_AHRA
C	83	B20	CD	9	9	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
C	84	B10		NSD									
C	85	C10		NSD									
C	86	C20		NSD									
C	87	C30		NSD									
C	88	C40		NSD									

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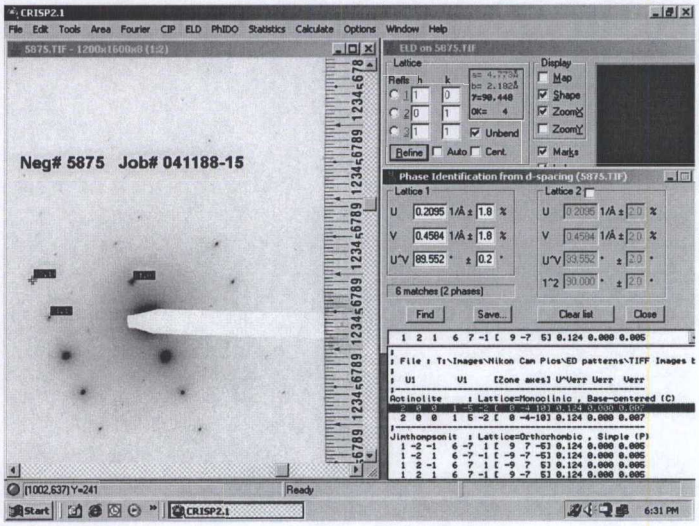
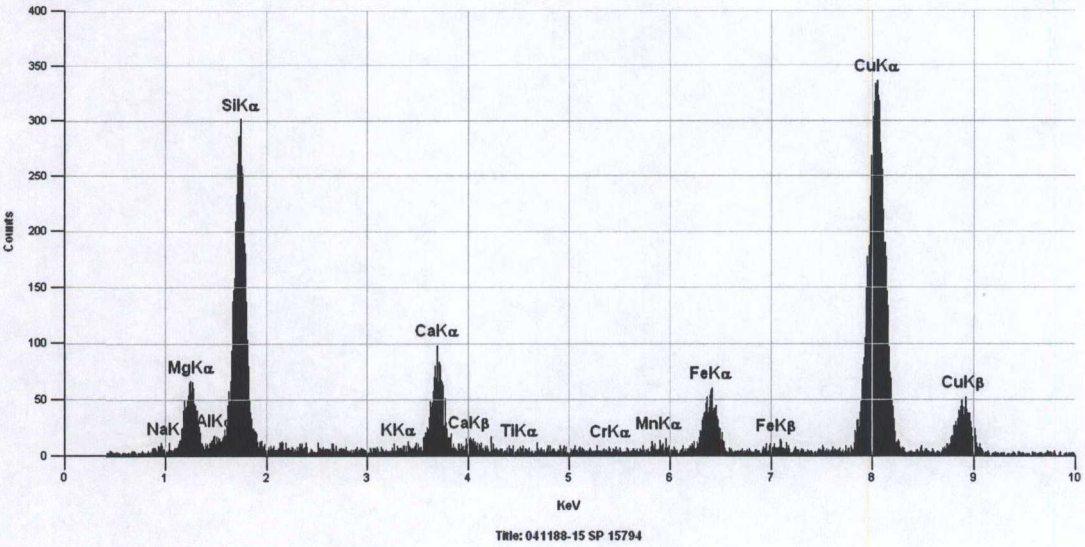
ACTINOLITE
Neg# 5875 Job# 041188-15
Zone Axis [0 2 5]
Philips Negative





Quantitative Analysis Results - Standardless Analysis :
041188-15 SP 15794 Tue, Feb 15 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 10.79
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.04	MgO	14.96	1.75	14.96
Si	22.60	SiO2	62.74	3.30	62.74
Ca	4.14	CaO	10.73	1.28	10.73
Fe	3.13	Fe2O3	11.56	1.96	11.56
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.74	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	0.0000						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	11.56	Fe+3	0.0626			0.0626	0.0000				
MgO	14.96	Mg+2	3.2368			3.2368	0.0000				
MnO	0	Fe+2	1.4154			1.4154	0.0000				
CaO	10.73	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7092					1.7092	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	99.99		Excess	T site	0.0000	C site	0.0000	B site	0	A site	0
			Total	8		4.7148		1.7092		0.0000	0.0000
			%Fill	100		94.2955		85.4601			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-15-15794

Values		Satisfied Conditions
(Ca,Na)@B	1.71	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.71	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.70	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S19 A1
Client Sample No. SFBA-L2-1CH-100504
Description
Analysis Date 2/6/2005
Analyst JH

Volume (L) 311.64
No. of Grid Openings 171
Filter Area (mm2) 193
Area Analyzed (mm2) 2.48
Analytical Sens. (struc/cc) 0.00100
Dectection Limit. (struc/cc) 0.00299

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	26.2	0.0650	0.0502 - 0.0828 (Poisson)	65
Total Asbestos Structures	26.2	0.0650	0.0502 - 0.0828 (Poisson)	65
Asbestos Structures > 5um	6.5	0.0160	0.00914 - 0.0260	16
Asbestos Fibers and Bundles > 5um	4.8	0.0120	0.00620 - 0.0210	12
PCM Equivalent Fibers-US	4.4	0.0110	0.00549 - 0.0197	11
PCM Equivalent Structures-ISO	2.0	0.00500	0.00162 - 0.0117	5
PROTOCOL ASB STRUCS 5-10	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL ASB STRUCS TOTAL	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS 5-10	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL CHRYS STRUCS TOTAL	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00299	0.00 - 0.00299	0
AHERA-like Total Structures 3:1	26.2	0.0650	0.0502 - 0.0828 (Poisson)	65
AHERA-like Asb Strucs >5 and 3:1	6.5	0.0160	0.00914 - 0.0260	16
AHERA-like Asb Strucs 5 - 10 and 3:1	2.0	0.00500	0.00162 - 0.0117	5
AHERA-like Asb Strucs >10 and 3:1	4.4	0.0110	0.00549 - 0.0197	11
Total Other Amphibole Strucs 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A44		NSD									
A	2	A22	AZQ	1	1	F	1.5	0.4	3.8	1391	1047	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 1] - JH	TAS_AHRA
A	3	A24		NSD									
A	4	A4		NSD									
A	5	D14		NSD									
A	6	D34	CDQ	2	2	F	0.6	0.05	12	1392	1048	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	7	D44	CDQ	3		MD1-0	12	6	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	7	D44	CDQ		3	MF	2.5	0.06	42			Mg, Si Chrysotile	
A	7	D44	AQ	4	4	F	4.2	0.8	5.2			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	D42		NSD									
A	9	D22	AQ	5		MD1-0	7.5	3	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	9	D22	AQ		5	MF	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	
A	10	D2		NSD									
A	11	A12		NSD									
A	12	A32		NSD									
A	13	A42		NSD									
A	14	A10	AQ	6		MD1-1	15	9	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	14	A10	AQ		6	MF	11	2.5	4.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	15	D10		NSD									
A	16	D30		NSD									
A	17	D40	CDQ	7	7	F	1.5	0.06	25			Mg, Si Chrysotile	TAS_AHRA
A	18	C41		NSD									
A	19	C21		NSD									
A	20	C1		NSD									
A	21	B1		NSD									
A	22	B11		NSD									
A	23	B21		NSD									
A	24	B13	CDQ	8	8	F	1	0.05	20			Mg, Si Chrysotile	TAS_AHRA
A	25	B3		NSD									
A	26	C3		NSD									
A	27	C23	CDQ	9		MD1-1	11	6	1.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

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Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	27	C23	CDQ		9	MF	9.5	0.06	160			Mg, Si Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
A	28	C43		NSD									
A	29	C34		NSD									
A	30	B4	CDQ	10	10	F	1.6	0.06	27			Mg, Si Chrysotile	TAS_AHRA
B	31	B44		NSD									
B	32	B24	CDQ	11	11	F	2.5	0.06	42			Mg, Si Chrysotile	TAS_AHRA
B	33	B4		NSD									
B	34	C4		NSD									
B	35	B43		NSD									
B	36	B23		NSD									
B	37	B3		NSD									
B	38	C13		NSD									
B	39	B12	AQ	12		MD1-0	2.5	2	1.2			Actinolite	TAS_AHRA
B	39	B12	AQ		12	MF	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	
B	40	C2		NSD									
B	41	C12		NSD									
B	42	C32		NSD									
B	43	B1		NSD									
B	44	C1		NSD									
B	45	C11		NSD									
B	46	C21	AQ	13	13	F	12	2	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	46	C21	AZQ	14		MD1-1	9	3.5	2.6			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	C21	AZQ		14	MF	9	1.9	4.7	1393	1049	Mg, Al, Si, Ca, Fe Tremolite Zone Axis [2 1 1] - KM	AFB>5, PCMEF-US
B	47	C31		NSD									
B	48	C41		NSD									
B	49	B10		NSD									
B	50	C10		NSD									
B	51	C30		NSD									
B	52	C40		NSD									
B	53	A40	AQ	15	15	F	14	2.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

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Report # 041188R15

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	54	A20		NSD									
B	55	A10		NSD									
B	56	D10		NSD									
B	57	D30		NSD									
B	58	D40		NSD									
B	59	A41	CD	16	16	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	60	A21		NSD									
B	61	A1		NSD									
C	62	B44	AQ	17		MD1-0	4.7	1.5	3.1			Actinolite	TAS_AHRA
C	62	B44	AQ		17	MF	4.7	0.7	6.7			Mg, Al, Si, Ca, Fe Actinolite	
C	63	B24	AQ	18	18	F	15	2.2	6.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	64	B4		NSD									
C	65	C14	AQ	19	19	F	6.5	0.7	9.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	66	C24		NSD									
C	67	C34		NSD									
C	68	B33	CD	20	20	F	3.5	0.1	35			Chrysotile	TAS_AHRA
C	69	B13	AQ	21	21	F	4.5	0.4	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	B13	CD	22	22	F	1.2	0.08	15			Chrysotile	TAS_AHRA
C	70	C3		NSD									
C	71	C23		NSD									
C	72	C43		NSD									
C	73	C12	CD	23	23	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
C	74	C22		NSD									
C	75	C42		NSD									
C	76	B31		NSD									
C	77	B1		NSD									
C	78	C1	CD	24	24	F	0.6	0.11	5.5			Chrysotile	TAS_AHRA
C	78	C1	CD	25	25	F	1.8	0.11	16			Chrysotile	TAS_AHRA
C	78	C1	CD	26	26	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	79	C11		NSD									
C	80	A20	CD	27	27	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
C	81	B10		NSD									

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Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	82	C10		NSD									
C	83	D10		NSD									
C	84	A1	AQ	28	28	F	4	0.35	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	85	D1		NSD									
C	86	A2	CD	29	29	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	87	D2		NSD									
C	88	A43	CD	30	30	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	89	A13		NSD									
C	90	A3		NSD									
D	91	B44		NSD									
D	92	B24		NSD									
D	93	B4		NSD									
D	94	C14		NSD									
D	95	C34		NSD									
D	96	B33	CD	31		MD1-0	3	0.8	3.8			Chrysotile	TAS_AHRA
D	96	B33	CD		31	MF	1.2	0.08	15			Chrysotile	
D	97	B13		NSD									
D	98	C3		NSD									
D	99	C23		NSD									
D	100	C33		NSD									
D	101	B42	CD	32	32	F	2.4	0.11	22			Mg, Al, Si, Ca, Fe Chrysotile	TAS_AHRA
D	102	B22	AQ	33		MD1-0	15	5	3.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	102	B22	AQ		33	MF	2.1	0.38	5.5			Mg, Al, Si, Ca, Fe Actinolite	
D	103	B2		NSD									
D	104	C12	AQ	34	34	F	4.5	0.35	13			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	105	C32		NSD									
D	106	B31		NSD									
D	107	B11		NSD									
D	108	C1	CD	35	35	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
D	108	C1	AQ	36	36	F	4.6	1	4.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	109	C21		NSD									
D	110	C41		NSD									
D	111	A41		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	112	A31		NSD									
D	113	A11		NSD									
D	114	D1	CD	37		MD1-0	15	8	1.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	114	D1	CD		37	MF	0.8	0.08	10			Chrysotile	
D	115	D21	CDQ	38	38	B	3.2	0.2	16			Mg, Si Chrysotile	TAS_AHRA
D	116	B40		NSD									
D	117	B30	AQ	39		MD1-1	8	3.5	2.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	117	B30	AQ		39	MF	8	1.2	6.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	118	B10		NSD									
D	119	C20	CD	40		MD1-0	1.2	0.35	3.4			Chrysotile	TAS_AHRA
D	119	C20	CD		40	MF	1.2	0.1	12			Chrysotile	
D	120	C40	AQ	41	41	F	5	1	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	121	B14		NSD									
E	122	C4		NSD									
E	123	C24		NSD									
E	124	C44		NSD									
E	125	B13		NSD									
E	126	B3		NSD									
E	127	C13	CD	42	42	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
E	128	C33	CD	43	43	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	129	B12		NSD									
E	130	C2	CD	44	44	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
E	131	C22		NSD									
E	132	C42		NSD									
E	133	B11	AQ	45		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
E	133	B11	AQ		45	MF	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	
E	133	B11	CD	46	46	F	1.8	0.1	18			Chrysotile	TAS_AHRA
E	134	C1		NSD									
E	135	C21		NSD									
E	136	C31	CD	47	47	F	0.8	0.05	16			Chrysotile	TAS_AHRA
E	137	C41	CD	48	48	F	2	0.1	20			Chrysotile	TAS_AHRA
E	137	C41	AQ	49	49	F	2.8	0.6	4.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	138	C10		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	139	C20	CD	50		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
E	139	C20	CD		50	MF	1	0.1	10			Chrysotile	
E	140	C30		NSD									
E	141	C40		NSD									
E	142	D10	CD	51		MD1-0	2	0.6	3.3			Chrysotile	TAS_AHRA
E	142	D10	CD		51	MF	2	0.1	20			Chrysotile	
E	142	D10	CD	52	52	F	0.8	0.08	10			Chrysotile	TAS_AHRA
E	143	D20	AQ	53		MD1-1	16	6.5	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	143	D20	AQ		53	MF	16	2.5	6.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
E	144	D40		NSD									
E	145	A11	CD	54	54	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
E	146	D1		NSD									
E	147	D21		NSD									
E	148	D41		NSD									
E	149	D12	CD	55	55	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	150	D32		NSD									
F	151	B44		NSD									
F	152	B24	AQ	56	56	F	4.5	1.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	153	B4	CDQ	57	57	B	2.7	0.25	11			Mg, Si Chrysotile	TAS_AHRA
F	154	C24		NSD									
F	155	C34		NSD									
F	156	B33	AQ	58	58	F	3.2	0.5	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	157	B13		NSD									
F	158	C3	AQ	59		MD1-1	12.5	7	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
F	158	C3	AQ		59	MF	7	1	7.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	159	C23	CD	60	60	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
F	160	C43	CD	61	61	F	1.8	0.1	18			Chrysotile	TAS_AHRA
F	161	C1		NSD									
F	162	C11	CD	62	62	F	2.2	0.1	22			Chrysotile	TAS_AHRA
F	163	C21	AQ	63		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
F	163	C21	AQ		63	MF	7	0.8	8.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	164	C41		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

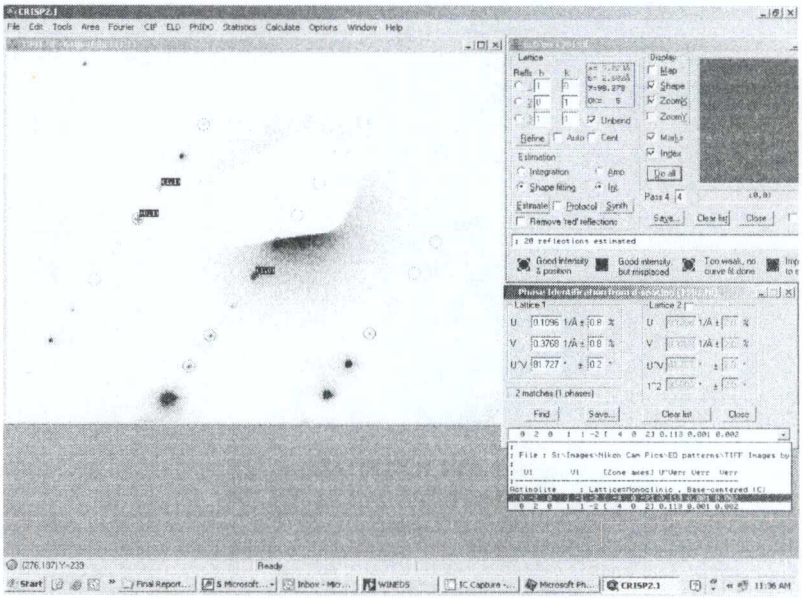
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

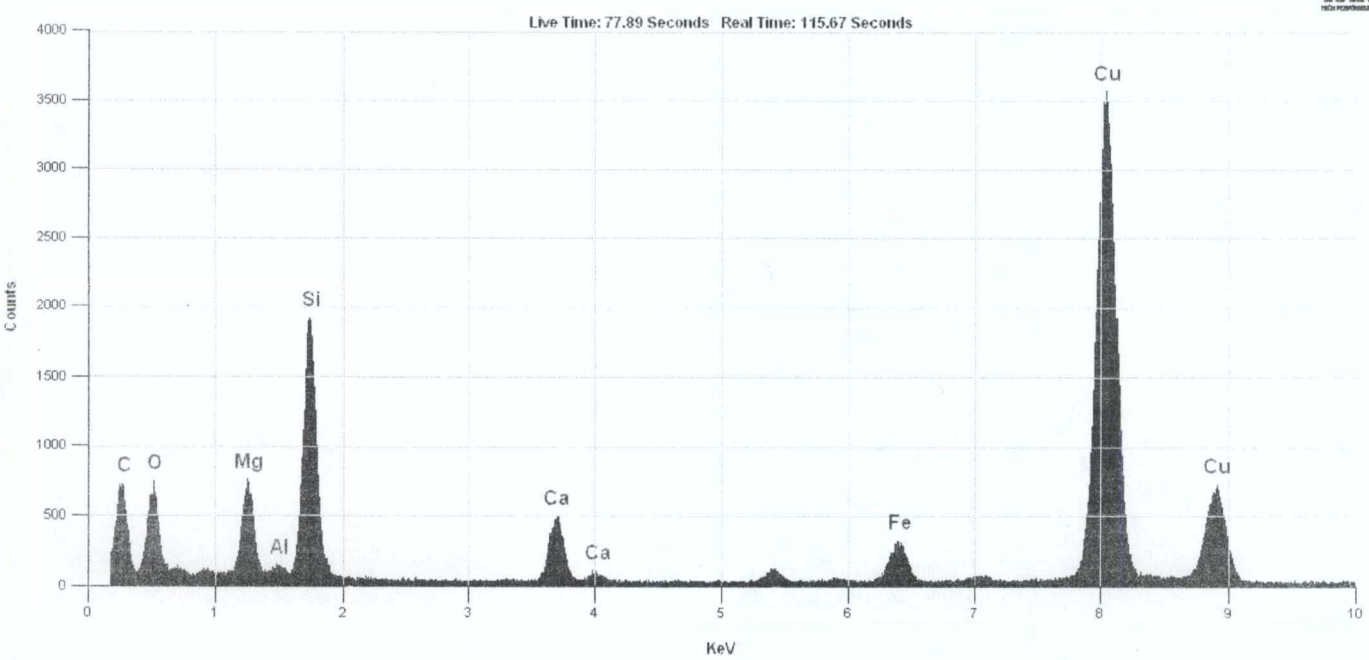
Sample No.: SFBA-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S19 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
F	165	A31		NSD									
F	166	A11		NSD									
F	167	D1		NSD									
F	168	D21	AQ	64		MD1-1	9	2	4.5			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	168	D21	AQ		64	MF	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	168	D21	AQ	65	65	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	169	D41		NSD									
F	170	A2		NSD									
F	171	D12		NSD									

ACTINOLITE
041188-19 Indirect, Neg#J1391
[2 0 1]





Title: 041188-19-J1047 Time: 11:21:42 AM Date: Wed, Feb 16 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-19-J1047 Wed, Feb 16 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 47.34
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.39	MgO	15.41	0.50	15.41
Al	0.37	Al2O3	0.85	0.17	0.85
Si	21.10	SiO2	57.80	1.13	57.80
Ca	4.86	CaO	12.42	0.56	12.42
Fe	3.72	Fe2O3	13.52	0.94	13.52
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.8	Si+4	8.0000	8.0000							
Al2O3	0.85	Al+3	0.1476	0.0000	0.1476						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	13.52	Fe+3	0.0476			0.0476	0.0000				
MgO	15.41	Mg+2	3.2260			3.2260	0.0000				
MnO	0	Fe+2	1.5415			1.5415	0.0000				
CaO	12.42	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.8712					1.8712	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.1476	C site	0.0000	B site	0	A site	0
			Total	8		4.9627		1.8712		0.0000	0.0000
			%Fill	100		99.2541		93.5592			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-19-1047

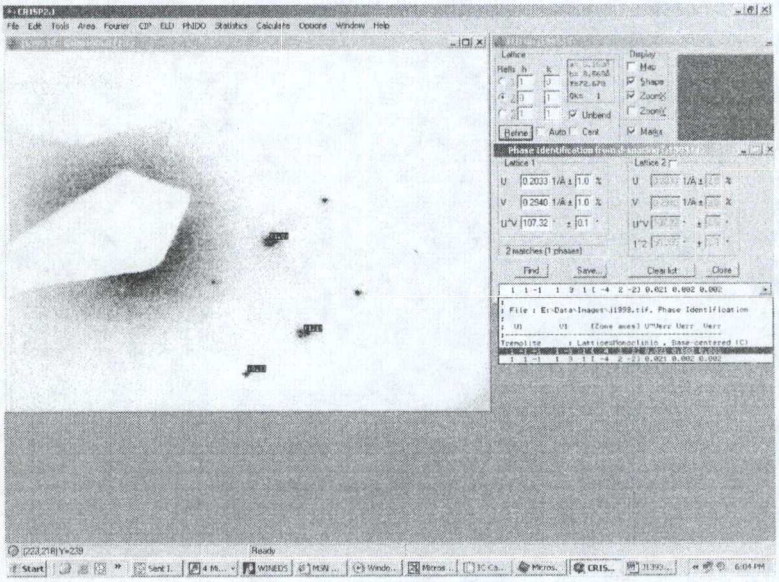
Values		Satisfied Conditions
(Ca,Na)@B	1.87	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.87	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.68	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

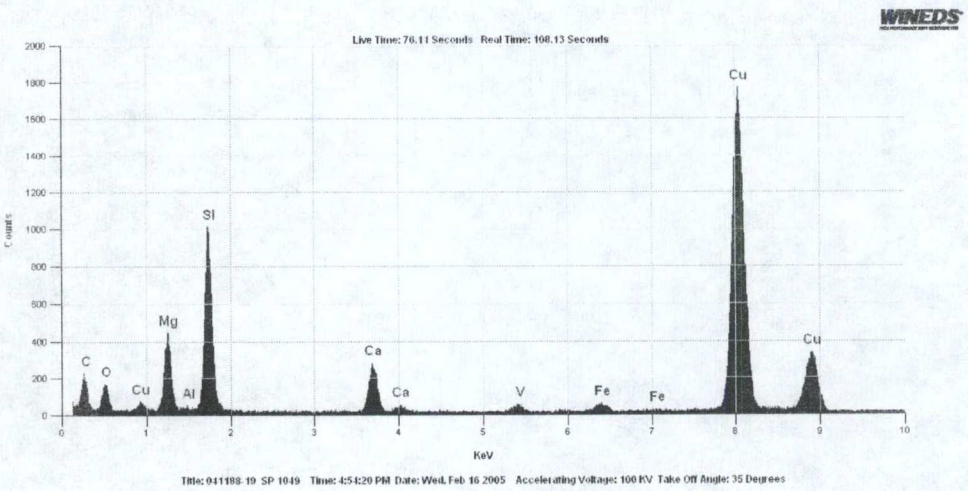
Mineral Analysis Program (Version 5.0)

TREMOLTE - Zone Axis [2 1 1]

041188-19 Neg# J1393

Gatan Image 2/16/05





Quantitative Analysis Results - Standardless Analysis :

041188-19 SP 1049 Wed, Feb 16 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 24.43

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.10	MgO	19.17	0.90	19.17
Si	22.08	SiO2	62.49	1.97	62.49
Ca	5.60	CaO	14.78	1.06	14.78
Fe	0.95	Fe2O3	3.56	1.19	3.56
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.49	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	0.0000						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.56	Fe+3	0.0353			0.0353	0.0000				
MgO	19.17	Mg+2	3.9391			3.9391	0.0000				
MnO	0	Fe+2	0.4638			0.4638	0.0000				
CaO	14.78	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	2.2032					2.0000	0.2032		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0000	C site	0.0000	B site	0.2031599	A site	0
			Total	8		4.4382		2.0000		0.0000	0.0000
			%Fill	100		88.7647		100			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-19-1049

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.89	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc..

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S20 A1
Client Sample No. SFBA-L2-2CH-100504
Description
Analysis Date 2/18/2005
Analyst KM

Volume (L) 308.4
No. of Grid Openings 94
Filter Area (mm2) 193
Area Analyzed (mm2) 1.36
Analytical Sens. (struc/cc) 0.00184
Dectection Limit. (struc/cc) 0.00550

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	73.4	0.184	0.150 - 0.224 (Poisson)	100
Total Asbestos Structures	73.4	0.184	0.150 - 0.224 (Poisson)	100
Asbestos Structures > 5um	13.2	0.0331	0.0196 - 0.0523	18
Asbestos Fibers and Bundles > 5um	11.7	0.0294	0.0168 - 0.0478	16
PCM Equivalent Fibers-US	11.0	0.0276	0.0154 - 0.0455	15
PCM Equivalent Structures-ISO	10.3	0.0257	0.0141 - 0.0432	14
PROTOCOL ASB STRUCS 5-10	0.7	0.00184	0.00 - 0.00871	1
PROTOCOL ASB STRUCS >10	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL ASB STRUCS TOTAL	0.7	0.00184	0.00 - 0.00871	1
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL AMPH STRUCS 5-10	0.7	0.00184	0.00 - 0.00871	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00550	0.00 - 0.00550	0
PROTOCOL AMPH STRUCS TOTAL	0.7	0.00184	0.00 - 0.00871	1
AHERA-like Total Structures 3:1	73.4	0.184	0.150 - 0.224 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	13.2	0.0331	0.0196 - 0.0523	18
AHERA-like Asb Strucs 5 - 10 and 3:1	11.0	0.0276	0.0154 - 0.0455	15
AHERA-like Asb Strucs >10 and 3:1	2.2	0.00551	0.00 - 0.0142	3
Total Other Amphibole Strucs 3:1	0.0	<0.00550	0.00 - 0.00550	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00550	0.00 - 0.00550	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00550	0.00 - 0.00550	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00550	0.00 - 0.00550	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-2CH-100504 *Lab/Cor Sample No.:* B4771 S20 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A31		NSD									
A	2	A1		NSD									
A	3	D1	AZQ	1	1	F	2	0.6	3.3	1401	1056	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [9 1 4] - KM	TAS_AHRA
A	4	D21	CDQ	2	2	F	0.8	0.1	8.0	1402	1057	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	D21	CD	3		MD1-0	3	2	1.5			Chrysotile	TAS_AHRA
A	4	D21	CD		3	MF	0.8	0.1	8.0			Chrysotile	
A	5	D31	CDQ	4	4	F	2.1	0.05	42			Mg, Si Chrysotile	TAS_AHRA
A	5	D31	CDQ	5	5	F	1.2	0.1	12			Mg, Si Chrysotile	TAS_AHRA
A	6	D41	CDQ	6	6	F	1	0.07	14			Mg, Si Chrysotile	TAS_AHRA
A	7	D43		NSD									
A	8	D23		NSD									
A	9	D3		NSD									
A	10	A13	AQ	7	7	F	7	0.8	8.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	A33	CDQ	8	8	F	1	0.05	20			Mg, Si Chrysotile	TAS_AHRA
A	12	A43	CDQ	9	9	F	1.7	0.1	17			Mg, Si Chrysotile	TAS_AHRA
A	12	A43	AQ	10	10	F	5.2	0.4	13			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	A14	CD	11	11	F	1.5	0.05	30			Chrysotile	TAS_AHRA
A	13	A14	AQ	12	12	F	4.9	1.1	4.5			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	13	A14	CDQ	13	13	F	1	0.07	14			Mg, Si Chrysotile	TAS_AHRA
A	14	D4	AQ	14	14	F	4	0.5	8.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	15	D24		NSD									
A	16	D44	CD	15	15	F	1.1	0.05	22			Chrysotile	TAS_AHRA
A	16	D44	CD	16	16	F	1	0.05	20			Chrysotile	TAS_AHRA
A	17	C40	CD	17	17	F	0.7	0.05	14			Chrysotile	TAS_AHRA
A	17	C40	CD	18	18	F	1.6	0.05	32			Chrysotile	TAS_AHRA
A	18	C30		NSD									
A	19	C10		NSD									
A	20	A10		NSD									
A	21	A30		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-2CH-100504 *Lab/Cor Sample No.:* B4771 S20 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	22	B2	AQ	19	19	F	2	0.4	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	23	C2	CD	20	20	F	0.9	0.05	18			Chrysotile	TAS_AHRA
A	23	C2	CD	21	21	F	0.6	0.05	12			Chrysotile	TAS_AHRA
B	24	A44		NSD									
B	25	A24	CD	22	22	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	26	A4		NSD									
B	27	D14	CD	23	23	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	27	D14	AQ	24	24	F	14	2.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	28	D34		NSD									
B	29	A33	CD	25	25	F	1	0.1	10			Chrysotile	TAS_AHRA
B	29	A33	CD	26		MD1-0	3.8	0.7	5.4			Chrysotile	TAS_AHRA
B	29	A33	CD		26	MF	0.7	0.1	7.0			Chrysotile	
B	29	A33	CD	27	27	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	29	A33	AQ	28	28	F	1.8	0.25	7.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	29	A33	AQ	29	29	F	2.6	0.6	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	29	A33	CD	30	30	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	30	A13	CD	31	31	F	1	0.1	10			Chrysotile	TAS_AHRA
B	30	A13	AQ	32	32	F	3.5	0.8	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	30	A13	AQ	33	33	F	7.5	2.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	D3	CD	34	34	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	32	D23	CD	35	35	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	33	D42	AQ	36	36	F	6	1.1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	D42	CD	37		MD1-0	5.5	2	2.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	D42	CD		37	MF	1.2	0.08	15			Chrysotile	
B	34	D12		NSD									
B	35	A2	AQ	38	38	F	3.6	0.4	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	36	A22	AQ	39		MD1-1	14	6	2.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	A22	AQ		39	MF	10	2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	37	A42	CD	40	40	F	2	0.1	20			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-2CH-100504 *Lab/Cor Sample No.:* B4771 S20 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	38	A31	CD	41	41	F	1	0.1	10			Chrysotile	TAS_AHRA
B	39	A11	CD	42	42	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	40	D1		NSD									
B	41	D21	AQ	43	43	F	18	4	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	42	D41	AQ	44	44	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	42	D41	CD	45	45	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	42	D41	CD	46	46	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	43	C41	CD	47	47	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	44	C21	AQ	48	48	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	44	C21	AQ	49	49	F	4	1	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	45	C1	AQ	50	50	F	2	0.2	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	46	B11	AQ	51	51	F	2.8	0.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	46	B11	CD	52	52	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	47	B31		NSD									
B	48	B42	CD	53	53	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	49	B22	AQ	54	54	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	50	B2		NSD									
B	51	C12	AQ	55	55	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	52	C32	AQ	56	56	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	52	C32	CD	57	57	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	53	C43	CD	58	58	F	1.5	0.12	12			Chrysotile	TAS_AHRA
B	54	C23	AQ	59	59	F	4.5	0.5	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	C23	AQ	60	60	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	C23	AQ	61	61	F	3.2	1	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	C23	AQ	62	62	F	5.8	1.8	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	C3	CD	63	63	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	56	B13	CD	64		MD1-0	2.5	0.8	3.1			Chrysotile	TAS_AHRA
B	56	B13	CD		64	MF	1.6	0.1	16			Chrysotile	
B	57	B33		NSD									
B	58	B40	AQ	65	65	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	59	B30	CD	66	66	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-L2-2CH-100504 *Lab/Cor Sample No.:* B4771 S20 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	60	B10		NSD									
C	61	A12		NSD									
C	62	A2		NSD									
C	63	D3	CD	67	67	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	64	D13	CD	68	68	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	65	D23		NSD									
C	66	D34		NSD									
C	67	D44		NSD									
C	68	D42	AQ	69	69	F	2.5	0.3	8.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	D22		NSD									
C	70	D2	CD	70	70	F	1.5	0.07	21			Chrysotile	TAS_AHRA
C	71	A12		NSD									
C	72	A11	AQ	71		MD1-0	8	6	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	A11	AQ		71	MF	2.4	0.3	8.0			Mg, Al, Si, Ca, Fe Actinolite	
C	72	A11	CD	72	72	F	0.6	0.05	12			Chrysotile	TAS_AHRA
C	73	A21	CD	73	73	F	1	0.05	20			Chrysotile	TAS_AHRA
C	74	A40	CD	74	74	F	1	0.05	20			Chrysotile	TAS_AHRA
C	75	A20		NSD									
C	76	A10	CD	75	75	F	0.7	0.05	14			Chrysotile	TAS_AHRA
C	76	A10	CD	76	76	F	1.2	0.05	24			Chrysotile	TAS_AHRA
C	76	A10	CD	77	77	F	0.6	0.05	12			Chrysotile	TAS_AHRA
C	77	D10	CD	78	78	F	1	0.06	17			Chrysotile	TAS_AHRA
C	78	D30		NSD									
D	79	A43		NSD									
D	80	A23	AQ	79	79	F	6	0.7	8.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	81	A3	AQ	80	80	F	7.5	1.8	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	81	A3	AQ	81	81	F	1.8	0.3	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	82	D13	AQ	82	82	F	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	83	D22	CD	83	83	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
D	84	D2	CD	84	84	F	1	0.11	9.1			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

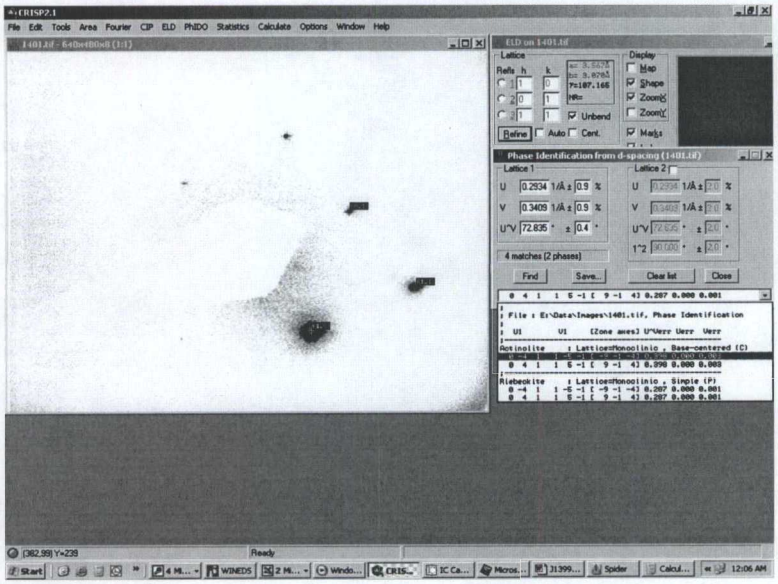
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

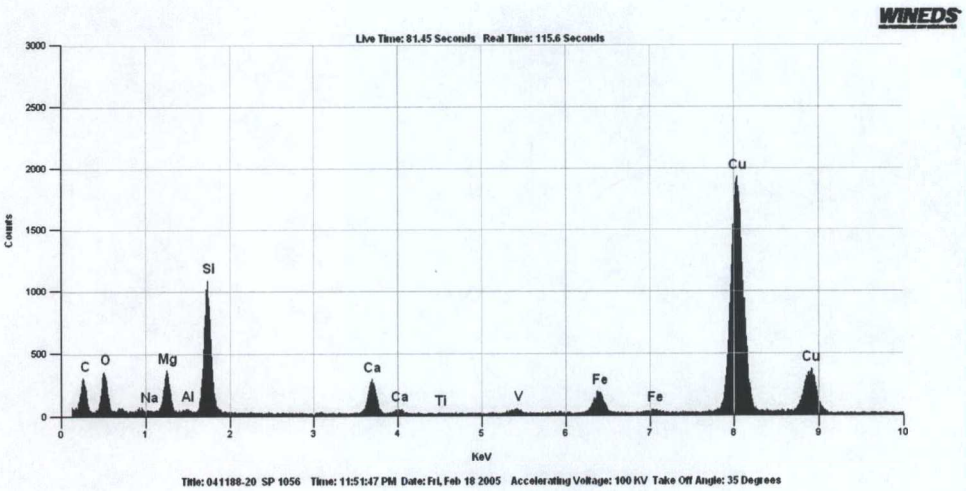
Sample No.: SFBA-L2-2CH-100504 *Lab/Cor Sample No.:* B4771 S20 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	84	D2	AQ	85	85	F	7	1.1	6.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	85	A12	CD	86	86	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
D	86	A22		NSD									
D	87	A31	AQ	87	87	F	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	87	A31	AQ	88	88	F	9	2	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	88	A11		NSD									
D	89	D1	CD	89	89	B	2.5	0.2	12			Chrysotile	TAS_AHRA
D	89	D1	CD	90	90	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
D	89	D1	CD	91	91	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
D	90	D11	AQ	92	92	F	10	1.2	8.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	91	D21	AQ	93		MD1-0	4.5	2	2.2			Actinolite	TAS_AHRA
D	91	D21	AQ		93	MF	4.3	0.8	5.4			Mg, Al, Si, Ca, Fe Actinolite	
D	91	D21	CD	94	94	F	0.8	0.08	10			Chrysotile	TAS_AHRA
D	92	D31	AQ	95	95	F	4.5	1.2	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	92	D31	CD	96	96	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
D	93	C31	CD	97	97	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
D	93	C31	CD	98	98	F	0.8	0.05	16			Chrysotile	TAS_AHRA
D	94	C11	AQ	99	99	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	94	C11	CD	100		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
D	94	C11	CD		100	MF	1.8	0.12	15			Chrysotile	

ACTINOLITE - Zone Axis [9 1 4]
041188-20 Neg# J1401
Gatan Image 2/18/05





Quantitative Analysis Results - Standardless Analysis :
041188-20 SP 1056 Fri, Feb 18 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 42.08
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.24	MgO	13.16	0.68	13.16
Al	0.20	Al2O3	0.46	0.21	0.46
Si	21.14	SiO2	57.22	1.69	57.22
Ca	5.42	CaO	13.70	0.90	13.70
Fe	4.30	Fe2O3	15.47	1.69	15.47
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.22	Si+4	8.0000	8.0000							
Al2O3	0.46	Al+3	0.0882	0.0000	0.0882						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	15.47	Fe+3	0.0238			0.0238	0.0000				
MgO	13.16	Mg+2	2.8054			2.8054	0.0000				
MnO	0	Fe+2	1.8285			1.8285	0.0000				
CaO	13.7	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	2.0978					2.0000	0.0978		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100.01		Excess	T site	0.0882	C site	0.0000	B site	0.0978437	A site	0
			Total	8		4.7459		2.0000		0.0000	0.0000
			%Fill	100		94.9175		100			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-20-1056

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.61	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S25 A1
Client Sample No. SFBB-H2-1FD-100604
Description
Analysis Date 2/17/2005
Analyst JH

Volume (L) 625.58
No. of Grid Openings 86
Filter Area (mm2) 193
Area Analyzed (mm2) 1.25
Analytical Sens. (struc/cc) 0.000990
Dectection Limit. (struc/cc) 0.00296

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	81.1	0.100	0.0806 - 0.120 (Poisson)	101
Total Asbestos Structures	81.9	0.101	0.0806 - 0.120 (Poisson)	102
Asbestos Structures > 5um	23.3	0.0287	0.0192 - 0.0412	29
Asbestos Fibers and Bundles > 5um	17.7	0.0218	0.0137 - 0.0330	22
PCM Equivalent Fibers-US	16.0	0.0198	0.0121 - 0.0306	20
PCM Equivalent Structures-ISO	12.8	0.0158	0.00906 - 0.0257	16
PROTOCOL ASB STRUCS 5-10	1.6	0.00198	0.00 - 0.00624	2
PROTOCOL ASB STRUCS >10	0.8	0.000990	0.00 - 0.00469	1
PROTOCOL ASB STRUCS TOTAL	2.4	0.00297	0.00 - 0.00767	3
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00296	0.00 - 0.00296	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00296	0.00 - 0.00296	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00296	0.00 - 0.00296	0
PROTOCOL AMPH STRUCS 5-10	1.6	0.00198	0.00 - 0.00624	2
PROTOCOL AMPH STRUCS >10	0.8	0.000990	0.00 - 0.00469	1
PROTOCOL AMPH STRUCS TOTAL	2.4	0.00297	0.00 - 0.00767	3
AHERA-like Total Structures 3:1	81.1	0.100	0.0806 - 0.120 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	23.3	0.0287	0.0192 - 0.0412	29
AHERA-like Asb Strucs 5 - 10 and 3:1	15.2	0.0188	0.0113 - 0.0294	19
AHERA-like Asb Strucs >10 and 3:1	8.0	0.00990	0.00475 - 0.0182	10
Total Other Amphibole Strucs 3:1	0.0	<0.00296	0.00 - 0.00296	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00296	0.00 - 0.00296	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00296	0.00 - 0.00296	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00296	0.00 - 0.00296	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A34	CDQ	1		MD1-0	15	12	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	1	A34	CDQ		1	MF	2.6	0.05	52	117	1050	Mg, Si Chrysotile iTEM Image - Verified - KM	
A	1	A34	AZQ	2	2	F	14	1.2	12	1395	1061	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [7 1 6] - JH	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	2	A14	CD	3		MD1-0	2.5	1.2	2.1			Chrysotile	TAS_AHRA
A	2	A14	CD		3	MF	0.7	0.05	14			Chrysotile	
A	2	A14	CDQ	4	4	F	0.7	0.1	7.0			Mg, Si Chrysotile	TAS_AHRA
A	2	A14	CDQ	5	5	F	1.2	0.06	20			Mg, Si Chrysotile	TAS_AHRA
A	2	A14	CDQ	6	6	F	1.1	0.06	18			Mg, Si Chrysotile	TAS_AHRA
A	3	D4	CDQ	7		MD1-0	3.5	2.5	1.4			Chrysotile	TAS_AHRA
A	3	D4	CDQ		7	MF	2.5	0.06	42			Mg, Si Chrysotile	
A	4	D24	CD	8		MD1-0	4.5	2.3	2.0			Chrysotile	TAS_AHRA
A	4	D24	CD		8	MF	1	0.05	20			Chrysotile	
A	4	D24	CDQ	9	9	F	1.2	0.06	20			Mg, Si Chrysotile	TAS_AHRA
A	4	D24	AQ	10	10	F	4	0.75	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	D44		NSD									
A	6	D42	AQ	11	11	F	7	0.25	28			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D42	CDQ	12		MD1-0	2.3	1.2	1.9			Chrysotile	TAS_AHRA
A	6	D42	CDQ		12	MF	0.9	0.1	9.0			Mg, Si Chrysotile	
A	6	D42	CDQ	13	13	B	22	1.2	18			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	D42	CD	14	14	F	1.2	0.05	24			Chrysotile	TAS_AHRA
A	7	D22		NSD									
A	8	D2	CDQ	15	15	B	1.6	0.2	8.0			Mg, Si Chrysotile	TAS_AHRA
A	8	D2	CDQ	16	16	F	1.2	0.1	12			Mg, Si Chrysotile	TAS_AHRA
A	9	A12	CDQ	17	17	F	1.1	0.06	18			Mg, Si Chrysotile	TAS_AHRA
A	10	A32		NSD									
A	11	A42		NSD									
A	12	A40	CMQ	18		MD1-0	1	0.4	2.5			Chrysotile	TAS_AHRA
A	12	A40	CMQ		18	MF	0.8	0.05	16			Mg, Si Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	A20	CDQ	19	19	F	1.6	0.05	32			Mg, Si Chrysotile	TAS_AHRA
A	13	A20	CDQ	20	20	F	1.6	0.06	27			Mg, Si Chrysotile	TAS_AHRA
A	14	A10		NSD									
A	15	D10		NSD									
A	16	D30		NSD									
A	17	D40	CDQ	21	21	F	1.4	0.05	28			Mg, Si Chrysotile	TAS_AHRA
A	17	D40	CDQ	22	22	F	1	0.05	20			Mg, Si Chrysotile	TAS_AHRA
A	17	D40	AQ	23	23	F	11	2	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	17	D40	CDQ	24	24	F	4	0.06	67			Mg, Si Chrysotile	TAS_AHRA
A	18	C41	CDQ	25	25	F	1	0.06	17			Mg, Si Chrysotile	TAS_AHRA
A	19	C21	CDQ	26	26	B	1.8	0.22	8.2			Mg, Si Chrysotile	TAS_AHRA
A	19	C21	CD	27	27	F	1	0.1	10			Chrysotile	TAS_AHRA
A	20	C1	AQ	28	28	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	20	C1	CD	29	29	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	21	B11	CD	30	30	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	22	B31	CD	31	31	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	22	B31	CD	32	32	F	1.1	0.1	11			Chrysotile	TAS_AHRA
A	23	A41		NSD									
A	24	A21	CD	33	33	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	25	A1		NSD									
A	26	D11	CD	34	34	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	27	D31	AQ	35	35	F	8	0.5	16			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	28	B40	CD	36		MD1-0	8.5	3.5	2.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	28	B40	CD		36	MB	1.6	0.22	7.3			Chrysotile	
A	29	B30	AQ	37	37	F	5.8	0.7	8.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	B30	CD	38		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
A	29	B30	CD		38	MF	0.8	0.08	10			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	29	B30	CD	39	39	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	30	B10	AQ	40	40	F	4	0.45	8.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	B44		NSD									
B	32	B24	CD	41	41	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	33	B4	CD	42	42	F	2.2	0.12	18			Chrysotile	TAS_AHRA
B	34	C14	AQ	43	43	F	5	0.6	8.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	34	C14	CD	44		MD1-0	12	6	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	34	C14	CD		44	MF	4	0.1	40			Chrysotile	
B	35	C34	CD	45		MD1-0	8	3	2.7			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	C34	CD		45	MF	4	0.12	33			Chrysotile	
B	35	C34	AQ	46	46	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	36	B33	CD	47		MD2-0	4.8	3	1.6			Chrysotile	TAS_AHRA
B	36	B33	CD		47	MF	0.8	0.1	8.0			Chrysotile	
B	36	B33	CD		48	MF	0.5	0.1	5.0			Chrysotile	
B	37	B13	CD	48	49	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	38	C3		NSD									
B	39	C23	CD	49		MD1-0	1.6	0.8	2.0			Chrysotile	TAS_AHRA
B	39	C23	CD		50	MF	0.8	0.1	8.0			Chrysotile	
B	39	C23	AQ	50	51	F	7.	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	40	C43	AQ	51	52	F	5.2	0.7	7.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	40	C43	AQ	52	53	F	9.5	1.8	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	41	B42	CD	53	54	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	42	B22	AQ	54	55	F	11	3.2	3.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	43	B2	AQ	55	56	F	3.2	0.6	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	44	C12	AQ	56	57	F	7.5	1.2	6.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	45	C32		NSD									
B	46	B31		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	47	B11		NSD									
B	48	C1	AQ	57	58	F	8	0.7	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	49	C21	AQ	58		MD1-1	11.8	3.8	3.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	49	C21	AD		59	MF	11.8	0.38	31			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS >10, PSAS TOT, PSAM >10, PSAM TOT
B	49	C21	AQ	59	60	F	12	2	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	49	C21	CD	60	61	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	50	C41	AQ	61		MD1-1	8.8	8	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	50	C41	AQ		62	MF	6.8	0.7	9.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	50	C41	CD	62	63	B	1.5	0.15	10			Chrysotile	TAS_AHRA
B	51	A41		NSD									
B	52	A21		NSD									
B	53	A1	CD	63	64	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	54	D11	AQ	64	65	F	15.5	3.8	4.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	54	D11	CD	65	66	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	55	D31	AQ	66		MD1-1	23	9	2.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	55	D31	AQ		67	MF	20	2	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	56	C20	AQ	67	68	F	5.8	1.2	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	57	C40		NSD									
B	58	B40	AQ	68	69	F	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	59	B30		NSD									
B	60	B20	AQ	69	70	F	3.5	1	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	B34	AQ	70	71	F	4.7	0.7	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	B34	CD	71	72	F	0.8	0.08	10			Chrysotile	TAS_AHRA
C	62	B14		NSD									
C	63	C4	AQ	72	73	B	5.2	2	2.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	64	B43	AQ	73	74	F	7.5	1.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	65	B33		NSD									
C	66	B23		NSD									
C	67	B13		NSD									
C	68	B42	AQ	74	75	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	B32	CD	75		MD1-0	6.5	5.5	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	69	B32	CD		76	MF	0.8	0.11	7.3			Chrysotile	
C	69	B32	CD	76	77	F	1.2	0.08	15			Chrysotile	TAS_AHRA
C	69	B32	CD	77	78	F	1.8	0.08	22			Chrysotile	TAS_AHRA
C	69	B32	CD	78	79	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	70	B12	AQ	79		MD1-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	70	B12	AQ		80	MF	5.6	1.2	4.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	70	B12	AQ	80	81	F	5	1.1	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	71	C2	AQ	81	82	F	3.8	0.3	13			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	71	C2	CD	82	83	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	72	B41	AQ	83	84	F	8.5	2	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	73	B31	CD	84	85	F	1.22	0.11	11			Chrysotile	TAS_AHRA
C	74	B21		NSD									
C	75	B1		NSD									
C	76	C11	AQ	85	86	F	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	77	A11	CD	86	87	F	2	0.1	20			Chrysotile	TAS_AHRA
C	78	A1		NSD									
C	79	D1	CD	87	88	F	1	0.1	10			Chrysotile	TAS_AHRA
C	80	D21		NSD									
C	81	D41	CD	88	89	F	2.5	0.12	21			Chrysotile	TAS_AHRA
C	81	D41	CD	89		MD1-0	6	6	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	81	D41	CD		90	MF	2	0.1	20			Chrysotile	
C	81	D41	AQ	90	91	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	82	C10	CD	91	92	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	83	C30	CD	92		MD1-0	1.8	0.8	2.2			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

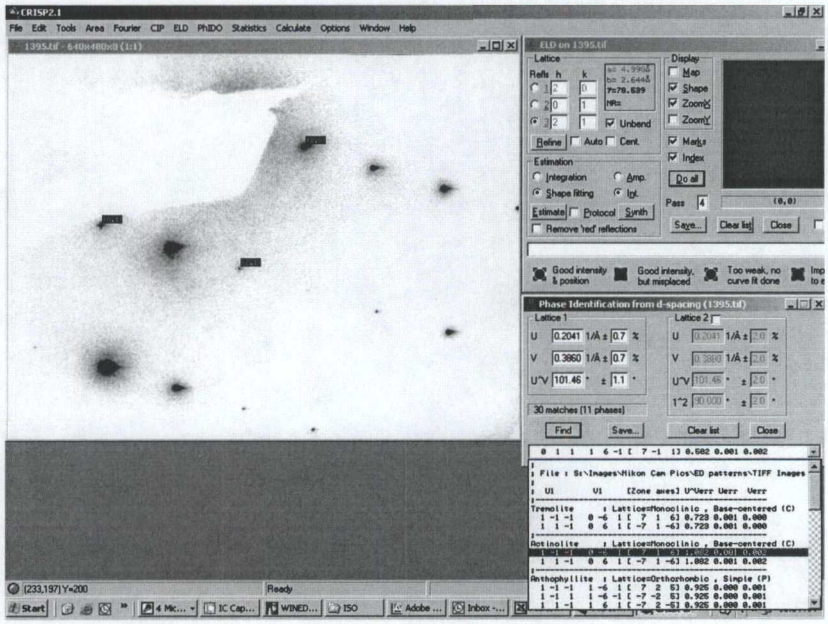
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

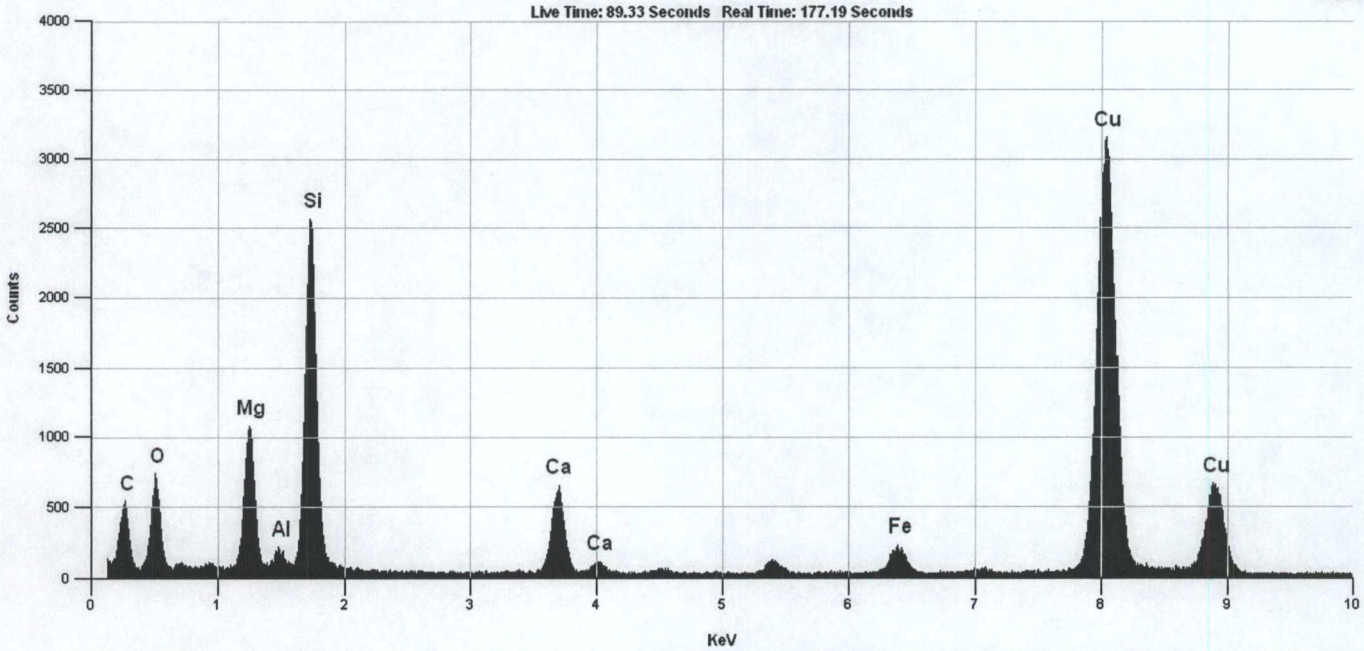
Sample No.: SFBB-H2-1FD-100604 *Lab/Cor Sample No.:* B4771 S25 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	83	C30	CD		93	MF	1.2	0.12	10			Chrysotile	
C	83	C30	CD	93	94	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
C	84	B20	AQ	94	95	F	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	84	B20	CD	95	96	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
C	84	B20	CD	96	97	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	85	B10	AQ	97	98	F	2	0.35	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	85	B10	CD	98	99	F	1.2	0.11	11			Chrysotile	TAS_AHRA
C	86	A10	CD	99	100	F	1	0.1	10			Chrysotile	TAS_AHRA
C	86	A10	CD	100	101	F	2	0.1	20			Chrysotile	TAS_AHRA
C	86	A10	AQ	101	102	F	3.2	0.8	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

ACTINOLITE
041188-25 Indirect, Neg#J1395
[7 1 6]





Title: 041188-25-sp1061 Time: 10:14:01 AM Date: Thu, Feb 17 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-25-sp1061 Thu, Feb 17 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 23.45
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.59	MgO	18.05	0.55	18.05
Al	0.54	Al2O3	1.29	0.18	1.29
Si	21.60	SiO2	60.58	1.23	60.58
Ca	4.89	CaO	12.80	0.62	12.80
Fe	1.95	Fe2O3	7.28	0.87	7.28
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	60.58	Si+4	8.0000	8.0000							
Al2O3	1.29	Al+3	0.2276	0.0000	0.2276						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	7.28	Fe+3	0.0215			0.0215	0.0000				
MgO	18.05	Mg+2	3.6930			3.6930	0.0000				
MnO	0	Fe+2	0.8460			0.8460	0.0000				
CaO	12.8	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.8937					1.8937	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.2276	C site	0.0000	B site	0	A site	0
			Total	8		4.7881		1.8937		0.0000	0.0000
			%Fill	100		95.7625		94.6835			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-25-1061

Values		Satisfied Conditions
(Ca,Na)@B	1.89	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.89	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.81	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S27 A1
Client Sample No. SFBB-H2-2FD-100604
Description
Analysis Date 2/18/2005
Analyst JH

Volume (L) 626.25
No. of Grid Openings 63
Filter Area (mm2) 193
Area Analyzed (mm2) 0.913
Analytical Sens. (struc/cc) 0.00135
Dectection Limit. (struc/cc) 0.00404

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	110.6	0.136	0.110 - 0.164 (Poisson)	101
Total Asbestos Structures	110.6	0.136	0.110 - 0.164 (Poisson)	101
Asbestos Structures > 5um	29.6	0.0365	0.0240 - 0.0530	27
Asbestos Fibers and Bundles > 5um	23.0	0.0284	0.0176 - 0.0433	21
PCM Equivalent Fibers-US	19.7	0.0243	0.0144 - 0.0384	18
PCM Equivalent Structures-ISO	19.7	0.0243	0.0144 - 0.0384	18
PROTOCOL ASB STRUCS 5-10	6.6	0.00810	0.00297 - 0.0176	6
PROTOCOL ASB STRUCS >10	0.0	<0.00404	0.00 - 0.00404	0
PROTOCOL ASB STRUCS TOTAL	6.6	0.00810	0.00297 - 0.0176	6
PROTOCOL CHRYS STRUCS 5-10	3.3	0.00405	0.00 - 0.0105	3
PROTOCOL CHRYS STRUCS >10	0.0	<0.00404	0.00 - 0.00404	0
PROTOCOL CHRYS STRUCS TOTAL	3.3	0.00405	0.00 - 0.0105	3
PROTOCOL AMPH STRUCS 5-10	3.3	0.00405	0.00 - 0.0105	3
PROTOCOL AMPH STRUCS >10	0.0	<0.00404	0.00 - 0.00404	0
PROTOCOL AMPH STRUCS TOTAL	3.3	0.00405	0.00 - 0.0105	3
AHERA-like Total Structures 3:1	110.6	0.136	0.110 - 0.164 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	29.6	0.0365	0.0240 - 0.0530	27
AHERA-like Asb Strucs 5 - 10 and 3:1	20.8	0.0257	0.0154 - 0.0401	19
AHERA-like Asb Strucs >10 and 3:1	8.8	0.0108	0.00466 - 0.0213	8
Total Other Amphibole Strucs 3:1	0.0	<0.00404	0.00 - 0.00404	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00404	0.00 - 0.00404	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00404	0.00 - 0.00404	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00404	0.00 - 0.00404	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A44		NSD									
A	2	A24	CD	1	1	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	2	A24	CDQ	2	2	F	0.8	0.12	6.7	1396	1051	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	3	A4	AQ	3	3	F	2.5	0.4	6.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	A4	CD	4	4	F	2	0.1	20			Chrysotile	TAS_AHRA
A	3	A4	CD	5	5	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	3	A4	CD	6	6	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	3	A4	CD	7		MD1-0	2.5	2.5	1.0			Chrysotile	TAS_AHRA
A	3	A4	CD		7	MF	2	0.1	20			Chrysotile	
A	4	D14	AQ	8		MD1-0	5.5	4	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	D14	AQ		8	MF	4.2	0.65	6.5			Mg, Al, Si, Ca, Fe Actinolite	
A	4	D14	CD	9	9	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	4	D14	CD	10	10	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	4	D14	CD	11	11	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	4	D14	CD	12	12	F	1	0.1	10			Chrysotile	TAS_AHRA
A	5	D34	CD	13		MD1-0	8	8	1:0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	D34	CD		13	MF	1.8	0.11	16			Chrysotile	
A	6	A42		NSD									
A	7	A22		NSD									
A	8	A2		NSD									
A	9	D12		NSD									
A	10	D32	CD	14	14	F	2.5	0.1	25			Chrysotile	TAS_AHRA
A	11	D42	CDQ	15	15	B	16	1.2	13			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	12	D40	CDQ	16	16	F	2	0.05	40			Mg, S Chrysotile	TAS_AHRA
A	12	D40	AZQ	17	17	F	2.5	0.3	8.3	1397	1053	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 3] - JH	TAS_AHRA
A	12	D40	AQ	18	18	F	5.1	0.5	10			Na, Mg, Al, Si, K, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	D20	CD	19	19	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	13	D20	CD	20	20	F	1.1	0.05	22			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

2.4

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	D20	CD	21	21	F	3	0.06	50			Chrysotile	TAS_AHRA
A	13	D20	CMQ	22	22	F	1	0.05	20			Chrysotile	TAS_AHRA
A	13	D20	CDQ	23	23	F	1.5	0.05	30			Mg, Si Chrysotile	TAS_AHRA
A	14	D10	CD	24	24	B	12.	5	2.4			Mg, Si Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A.	15	A10	CD	25		MD1-0	1.5	1.5	1.0			Chrysotile	TAS_AHRA
A	15	A10	CD		25	MF	0.7	0.05	14			Chrysotile	
A	16	A30	CDQ	26	26	B	15	0.7	21			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	16	A30	CDQ	27		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
A	16	A30	CDQ		27	MF	1.5	0.06	25			Mg, Si Chrysotile	
A	17	A40		NSD									
A	18	B31	AQ	28	28	F	17.5	3	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	18	B31	CD	29	29	F	1	0.06	17			Chrysotile	TAS_AHRA
A	18	B31	CD	30	30	F	0.6	0.15	4.0			Chrysotile	TAS_AHRA
A	19	C1		NSD									
A	20	C11	CDQ	31	31	F	1.2	0.06	20			Mg, Si Chrysotile	TAS_AHRA
A	21	C21	CD	32	32	F	4	0.05	80			Chrysotile	TAS_AHRA
A	21	C21	CD	33	33	F	0.7	0.06	12			Chrysotile	TAS_AHRA
A	22	C31	CDQ	34	34	F	1.2	0.05	24			Mg, Si Chrysotile	TAS_AHRA
A	22	C31	CD	35	35	F	0.6	0.04	15			Chrysotile	TAS_AHRA
A	23	C41	CD	36	36	F	2.6	0.05	52			Chrysotile	TAS_AHRA
A	23	C41	CD	37	37	F	1.1	0.05	22			Chrysotile	TAS_AHRA
A	24	C43		NSD									
A	25	C23	CD	38	38	F	1.2	0.05	24			Chrysotile	TAS_AHRA
A	25	C23	CD	39	39	F	1	0.05	20			Chrysotile	TAS_AHRA
A	26	C13		NSD									
A	27	B3		NSD									
A	28	B23		NSD									
A	29	B43	CDQ	40	40	B	8	0.3	27			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	B43	CD	41	41	F	1.2	0.06	20			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	30	B4	CD	42	42	F	1	0.06	17			Chrysotile	TAS_AHRA
A	30	B4	CD	43	43	F	1.2	0.05	24			Chrysotile	TAS_AHRA
A	30	B4	CD	44	44	F	1.2	0.05	24			Chrysotile	TAS_AHRA
A	30	B4	CD	45	45	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	31	B24	CD	46		MD1-0	3.5	1	3.5			Chrysotile	TAS_AHRA
B	31	B24	CD		46	MF	0.5	0.08	6.2			Chrysotile	
B	31	B24	CD	47	47	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	32	B4	AQ	48	48	F	4.7	0.8	5.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	32	B4	CD	49		MD1-0	1.5	0.5	3.0			Chrysotile	TAS_AHRA
B	32	B4	CD		49	MF	1	0.1	10			Chrysotile	
B	32	B4	AQ	50		MD1-0	7	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	32	B4	AQ		50	MF	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	
B	32	B4	AQ	51	51	F	6.5	0.8	8.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C14	CD	52	52	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	34	C34		NSD									
B	35	B43	CD	53		MD1-1	8.5	2	4.2			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	B43	CD		53	MF	7	0.1	70			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	36	B23	AQ	54	54	F	1.85	0.6	3.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	36	B23	CD	55	55	F	1.8	0.08	22			Chrysotile	TAS_AHRA
B	37	B3	AQ	56	56	F	5.2	1.2	4.3			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	C13	CD	57		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
B	38	C13	CD		57	MF	0.8	0.1	8.0			Chrysotile	
B	38	C13	CD	58	58	F	1	0.1	10			Chrysotile	TAS_AHRA
B	38	C13	AQ	59	59	F	4.5	0.5	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	39	C33		NSD									
B	40	B42	CD	60	60	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	40	B42	CD	61	61	F	1	0.1	10			Chrysotile	TAS_AHRA
B	41	B22	CD	62		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
B	41	B22	CD		62	MB	1.2	0.22	5.5			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	41	B22	CD	63	63	F	1	0.1	10			Chrysotile	TAS_AHRA
B	41	B22	AQ	64	64	F	4.5	0.45	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	42	B2	AQ	65	65	F	12.5	4	3.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	42	B2	CD	66	66	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	43	C12		NSD									
B	44	C32	AQ	67	67	F	11	0.8	14			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	C32	CD	68	68	F	2.5	0.1	25			Chrysotile	TAS_AHRA
B	44	C32	CD	69	69	B	1.8	0.15	12			Chrysotile	TAS_AHRA
B	45	A41		NSD									
B	46	A31	AQ	70	70	F	2.6	0.38	6.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	47	A1	AQ	71	71	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	47	A1	AQ	72	72	F	6	1.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	D11	AQ	73	73	F	6	0.5	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	D11	CD	74	74	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	48	D11	CD	75		MD1-0	2.5	0.8	3.1			Chrysotile	TAS_AHRA
B	48	D11	CD		75	MF	2	0.1	20			Chrysotile	
B	48	D11	AQ	76		MD1-1	8.5	8	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	D11	AQ		76	MF	5.2	0.4	13			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
B	49	D31	CD	77		MD1-0	2.2	0.8	2.8			Chrysotile	TAS_AHRA
B	49	D31	CD		77	MF	1.2	0.08	15			Chrysotile	
B	49	D31	CD	78	78	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	50	A42	AQ	79	79	F	5.3	1.2	4.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	50	A42	CD	80	80	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	50	A42	AQ	81	81	F	14	3	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	50	A42	CD	82	82	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	51	A32	CD	83	83	B	6.3	0.22	29			Chrysotile	AS>5, AFB>5, PCMES-ISO, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A32	AQ	84	84	F	6.8	1	6.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A32	CD	85		MD1-0	2.5	0.8	3.1			Chrysotile	TAS_AHRA
B	51	A32	CD		85	MF	1	0.1	10			Chrysotile	
B	52	D2	AQ	86		MD1-1	25	10	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	52	D2	AQ		86	MF	7	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	53	D12	AQ	87	87	F	5	0.8	6.2			Actinolite	TAS_AHRA
B	54	D22	AQ	88	88	F	6	1.1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	D32	CD	89		MD1-0	7	7	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	D32	CD		89	MF	1.2	0.11	11			Chrysotile	
B	55	D32	CD	90		MD1-0	2	1.8	1.1			Chrysotile	TAS_AHRA
B	55	D32	CD		90	MF	0.5	0.08	6.2			Chrysotile	
B	56	A33	CD	91	91	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	56	A33	CD	92		MD1-0	1.5	1.5	1.0			Chrysotile	TAS_AHRA
B	56	A33	CD		92	MF	0.8	0.08	10			Chrysotile	
B	57	A13	AQ	93	93	F	8	2.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	58	D3	CD	94	94	B	3	0.25	12			Chrysotile	TAS_AHRA
B	59	D23	CD	95	95	B	1.8	0.15	12			Chrysotile	TAS_AHRA
B	59	D23	CD	96	96	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
B	59	D23	AQ	97	97	F	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	60	D43	CD	98	98	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	61	B34	CD	99	99	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	62	B14		NSD									
B	63	B4	CD	100		MD1-0	5.5	3.5	1.6			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

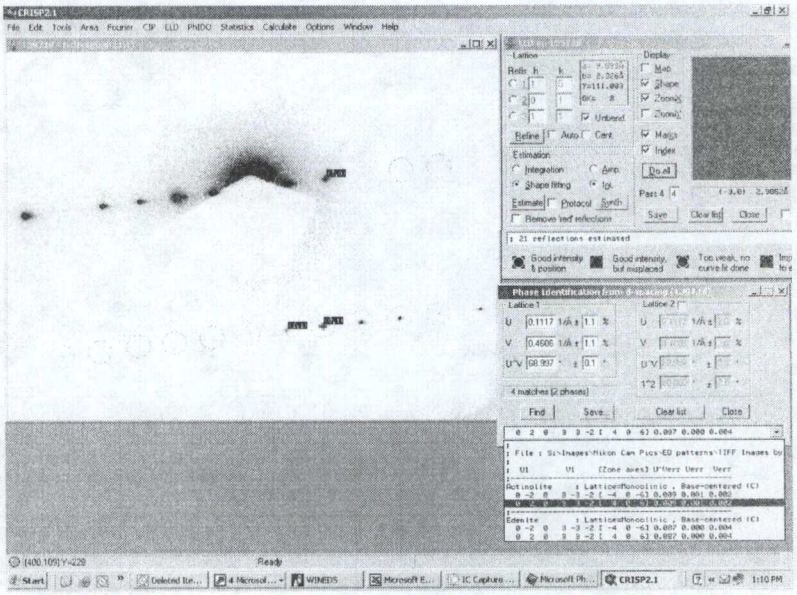
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

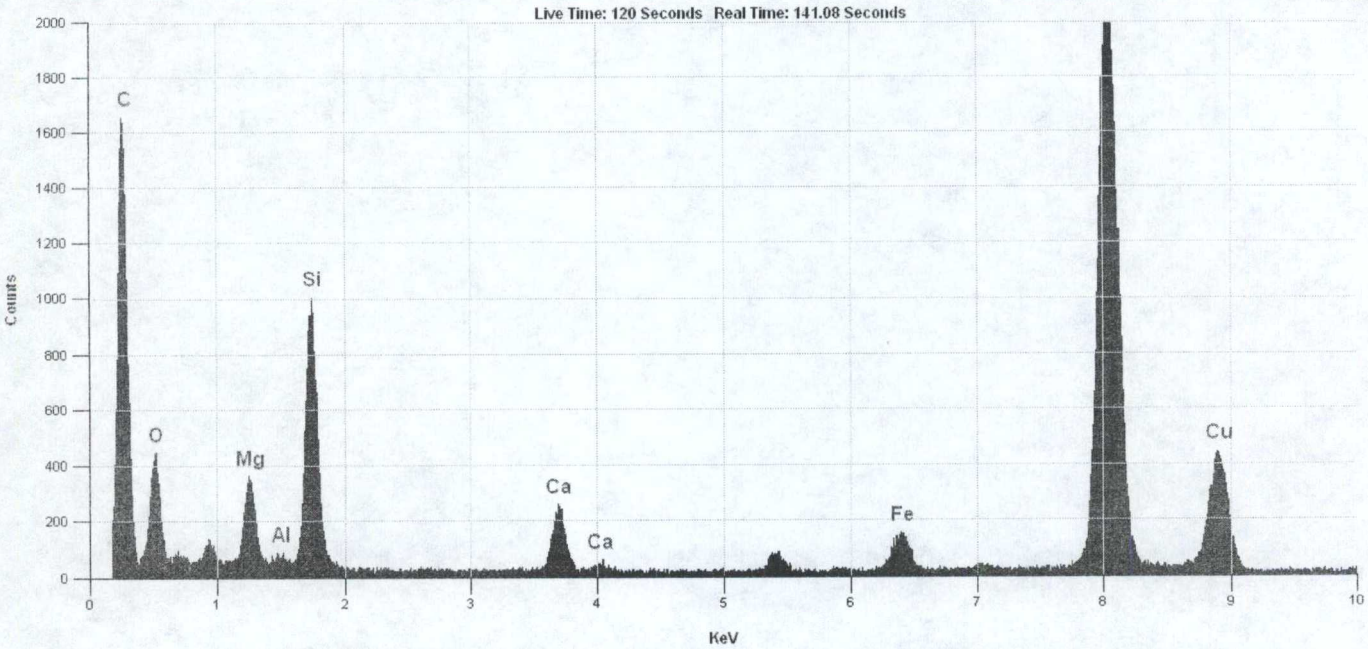
Sample No.: SFBB-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S27 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	63	B4	CD		100	MF	2	0.1	20			Chrysotile	
B	63	B4	CD	101	101	F	1.2	0.08	15			Chrysotile	TAS_AHRA

ACTINOLITE
041188-27 Indirect, Neg#J1397
[2 0 3]





Title: 041188-27-SP1053 Time: 12:54:50 PM Date: Fri, Feb 18 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-27-SP1053 Fri, Feb 18 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 170.86
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.87	MgO	14.52	0.67	14.52
Al	0.23	Al2O3	0.53	0.25	0.53
Si	21.83	SiO2	60.05	1.51	60.05
Ca	4.89	CaO	12.55	0.75	12.55
Fe	3.38	Fe2O3	12.35	1.28	12.35
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	60.05	Si+4	8.0000	8.0000							
Al2O3	0.53	Al+3	0.1211	0.0000	**0.1211**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	12.35	Fe+3	0.0351			0.0351	0.0000				
MgO	14.52	Mg+2	3.0785			3.0785	**0.0000**				
MnO	0	Fe+2	1.4618			1.4618	**0.0000**				
CaO	12.55	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	1.9207					1.9207	0.0000		
K2O	0	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.1211**	C site	**0.0000**	B site	**0**	A site	**0**
			Total	**8**		**4.6965**		**1.9207**		**0.0000**	**0.0000**
			%Fill	**100**		**93.9301**		**96.0359**			

Prefix none
Name **actinolite**
Modifier none
Group **Calcic Amphibole**

Sample # **041188-27-1053**

Values		Satisfied Conditions
(Ca,Na)@B	1.92	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.92	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.68	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

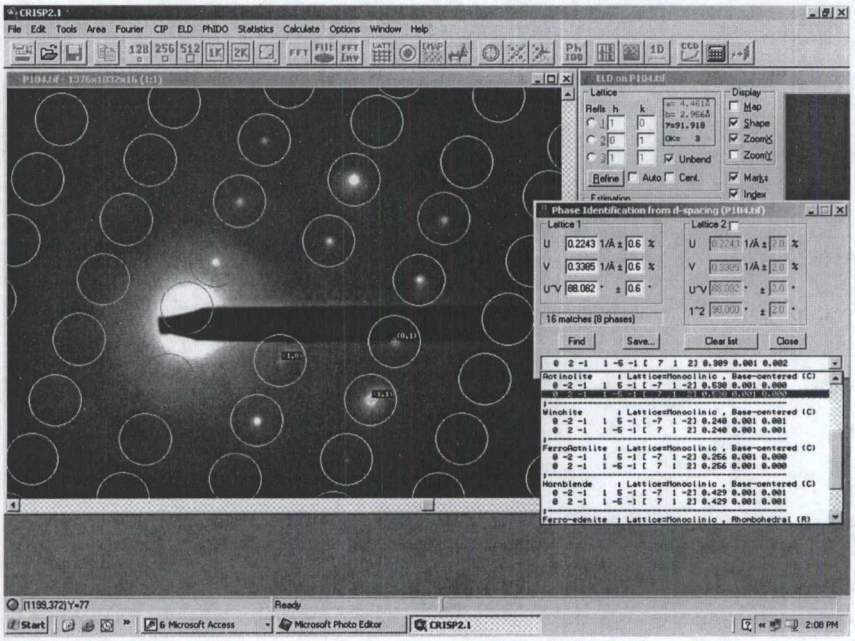
Mineral Analysis Program (Version 5.0)

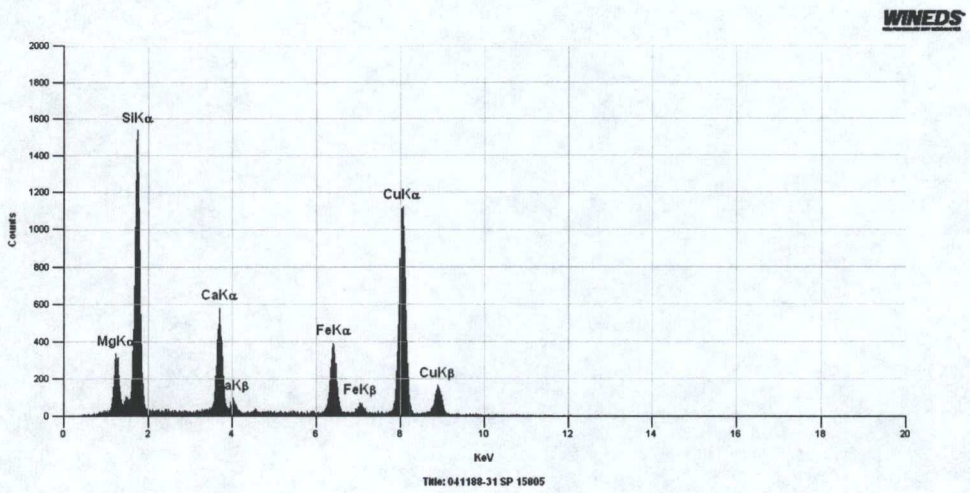
ACTINOLITE

Zone Axis [7 1 2]

Neg# P104 Job# 041188-31

iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-31 SP 15805 Sun, Feb 20 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 19.57
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.83	MgO	14.22	0.79	14.22
Al	0.19	Al2O3	0.45	0.20	0.45
Si	20.91	SiO2	56.64	1.51	56.64
Ca	4.98	CaO	12.60	0.65	12.60
Fe	4.47	Fe2O3	16.09	1.11	16.09
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	56.64	Si+4	8.0000	8.0000							
Al2O3	0.45	Al+3	0.0779	0.0000	0.0779						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	16.09	Fe+3	0.0532			0.0532	0.0000				
MgO	14.22	Mg+2	3.0099			3.0099	0.0000				
MnO	0	Fe+2	1.8525			1.8525	0.0000				
CaO	12.6	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.9171					1.9171	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0779	C site	0.0000	B site	0	A site	0
			Total	8		4.9935		1.9171		0.0000	0.0000
			%Fill	100		99.8692		95.855			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-31-15805

Values		Satisfied Conditions
(Ca,Na)@B	1.92	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.92	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.62	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S37 A1
Client Sample No. SFBC-H2-2FD-100604
Description
Analysis Date 2/23/2005
Analyst KM

Volume (L) 598.92
No. of Grid Openings 89
Filter Area (mm2) 193
Area Analyzed (mm2) 1.29
Analytical Sens. (struc/cc) 0.00100
Dectection Limit. (struc/cc) 0.00299

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	65.9	0.0850	0.0679 - 0.105 (Poisson)	85
Total Asbestos Structures	65.9	0.0850	0.0679 - 0.105 (Poisson)	85
Asbestos Structures > 5um	9.3	0.0120	0.00620 - 0.0210	12
Asbestos Fibers and Bundles > 5um	7.0	0.00900	0.00411 - 0.0171	9
PCM Equivalent Fibers-US	6.2	0.00800	0.00345 - 0.0158	8
PCM Equivalent Structures-ISO	3.1	0.00400	0.00109 - 0.0102	4
PROTOCOL ASB STRUCS 5-10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS >10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL ASB STRUCS TOTAL	1.6	0.00200	0.00 - 0.00630	2
PROTOCOL CHRYS STRUCS 5-10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS >10	0.8	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS TOTAL	1.6	0.00200	0.00 - 0.00630	2
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00299	0.00 - 0.00299	0
AHERA-like Total Structures 3:1	65.9	0.0850	0.0679 - 0.105 (Poisson)	85
AHERA-like Asb Strucs >5 and 3:1	9.3	0.0120	0.00620 - 0.0210	12
AHERA-like Asb Strucs 5 - 10 and 3:1	5.4	0.00700	0.00281 - 0.0144	7
AHERA-like Asb Strucs >10 and 3:1	3.9	0.00500	0.00162 - 0.0117	5
Total Other Amphibole Strucs 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	AQ	1	1	F	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	B24		NSD									
A	3	B4		NSD									
A	4	C14		NSD									
A	5	C34	CD	2	2	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	5	C34	CDQ	3	3	F	1	0.1	10	1408	1062	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	5	C34	AZQ	4	4	F	26	0.7	37	1409	1063	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 1] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	C43	CD	5	5	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	6	C43	CD	6	6	F	2	0.1	20			Chrysotile	TAS_AHRA
A	6	C43	CD	7	7	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
A	7	C23		NSD									
A	8	C3	CD	8	8	F	1.1	0.1	11			Chrysotile	TAS_AHRA
A	9	B13		NSD									
A	10	B33	CD	9	9	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	11	B42	CD	10	10	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	12	B22	AQ	11	11	F	2	0.35	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	13	B2	CD	12	12	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	14	C12		NSD									
A	15	C32		NSD									
A	16	C41	CD	13	13	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	17	C21		NSD									
A	18	C1	CD	14	14	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	19	B11	CD	15	15	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	20	B31	CD	16	16	B	1.2	0.15	8.0			Chrysotile	TAS_AHRA
A	21	B40	CD	17	17	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	22	B20	CD	18	18	F	1.5	0.03	50			Chrysotile	TAS_AHRA
A	22	B20	CD	19	19	F	1.8	0.12	15			Chrysotile	TAS_AHRA
A	23	B10		NSD									
A	24	C10	CD	20	20	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	24	C10	CD	21	21	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	25	C30	CD	22	22	F	1.5	0.08	19			Chrysotile	TAS_AHRA
A	25	C30	CD	23	23	F	1.5	0.2	7.5			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	25	C30	CD	24		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
A	25	C30	CD		24	MB	2	0.2	10.			Chrysotile	
A	26	C40		NSD									
A	27	D40	CD	25	25	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
A	27	D40	CD	26		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
A	27	D40	CD		26	MF	0.8	0.1	8.0			Chrysotile	
A	28	D30	CD	27	27	F	0.5	0.05	10			Chrysotile	TAS_AHRA
A	29	D10	CD	28	28	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	29	D10	CD	29	29	F	1	0.1	10			Chrysotile	TAS_AHRA
A	29	D10	AQ	30	30	F	9.5	1	9.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	D10	CD	31	31	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	30	A10	AQ	32		MD1-1	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	30	A10	AQ		32	MF	8.5	1	8.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	31	B24	CD	33		MD1-0	1.2	0.3	4.0			Chrysotile	TAS_AHRA
B	31	B24	CD		33	MF	0.8	0.08	10			Chrysotile	
B	32	B4	CD	34	34	F	2	0.1	20			Chrysotile	TAS_AHRA
B	33	C14	CD	35		MD1-0	4	2	2.0			Chrysotile	TAS_AHRA
B	33	C14	CD		35	MF	2.5	0.12	21			Chrysotile	
B	33	C14	CD	36		MD1-0	8	5	1.6			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C14	CD		36	MF	3	0.11	27			Chrysotile	
B	34	C34		NSD									
B	35	C43		NSD									
B	36	C23	CD	37	37	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	37	B3		NSD									
B	38	B13	AQ	38	38	F	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	B13	CD	39	39	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	39	B33		NSD									
B	40	B42		NSD									
B	41	B22		NSD									
B	42	B2		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	43	C12		NSD									
B	44	C32	AQ	40	40	F	4.5	0.8	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	44	C32	CD	41		MD1-0	1.2	0.5	2.4			Chrysotile	TAS_AHRA
B	44	C32	CD		41	MF	0.5	0.08	6.2			Chrysotile	
B	45	C41		NSD									
B	46	C21		NSD									
B	47	C1	AQ	42		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	47	C1	AQ		42	MF	9	1	9.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	47	C1	CD	43	43	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	48	B11	CD	44		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
B	48	B11	CD		44	MF	0.8	0.08	10			Chrysotile	
B	49	B31	CD	45		MD1-0	15	8	1.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	49	B31	CD		45	MF	1.2	0.11	11			Chrysotile	
B	49	B31	CD	46	46	B	2.5	0.5	5.0			Chrysotile	TAS_AHRA
B	50	A41	CD	47	47	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	50	A41	CD	48	48	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	51	A21		NSD									
B	52	A1	CD	49	49	F	2	0.08	25			Chrysotile	TAS_AHRA
B	52	A1	CD	50		MD1-0	1.5	0.25	6.0			Chrysotile	TAS_AHRA
B	52	A1	CD		50	MF	1.2	0.1	12			Chrysotile	
B	53	D11		NSD									
C	54	A44	CD	51	51	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	54	A44	CD	52	52	F	5.1	0.1	51			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	54	A44	CD	53	53	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	55	A34	CD	54	54	F	2	0.11	18			Chrysotile	TAS_AHRA
C	56	A24		NSD									
C	57	A14	CD	55	55	B	18	0.5	36			Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS >10, PSAS TOT, PCAS >10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	58	A4	CD	56	56	F	1.2	0.11	11			Chrysotile	TAS_AHRA
C	58	A4	CD	57	57	F	0.6	0.05	12			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	59	D4	CD	58		MD1-0	2	1.2	1.7			Chrysotile	TAS_AHRA
C	59	D4	CD		58	MF	1.2	0.11	11			Chrysotile	
C	60	D34	AQ	59	59	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	D44	CD	60	60	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	62	D43	CD	61	61	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA
C	62	D43	CD	62	62	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	62	D43	CD	63	63	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
C	62	D43	CD	64	64	F	1.2	0.12	10			Chrysotile	TAS_AHRA
C	63	D33		NSD									
C	64	D13		NSD									
C	65	D3	CD	65	65	B	2.8	0.35	8.0			Chrysotile	TAS_AHRA
C	66	A3	CD	66	66	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	67	A13	AQ	67		MD1-1	9	4	2.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	67	A13	AQ		67	MF	8.2	1.5	5.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	68	A23	CD	68	68	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	69	A43		NSD									
C	70	A32	CD	69	69	F	1	0.1	10			Chrysotile	TAS_AHRA
C	70	A32	CD	70	70	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	70	A32	CD	71	71	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	71	A12		NSD									
C	72	D2	CD	72		MD1-0	7	4	1.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	D2	CD		72	MF	1.2	0.1	12			Chrysotile	
C	73	D44	CD	73	73	F	1.8	0.1	18			Chrysotile	TAS_AHRA
C	73	D44	CD	74	74	F	1.2	0.12	10			Chrysotile	TAS_AHRA
C	74	A41		NSD									
C	75	A31	CD	75	75	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
C	75	A31	AQ	76		MD1-1	11	6	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	75	A31	AQ		76	MF	6.8	1.2	5.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	76	A21	CD	77	77	F	1.8	0.1	18			Chrysotile	TAS_AHRA
C	77	A11	CD	78	78	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	78	A1		NSD									
C	79	A30		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-2FD-100604 *Lab/Cor Sample No.:* B4771 S37 A1

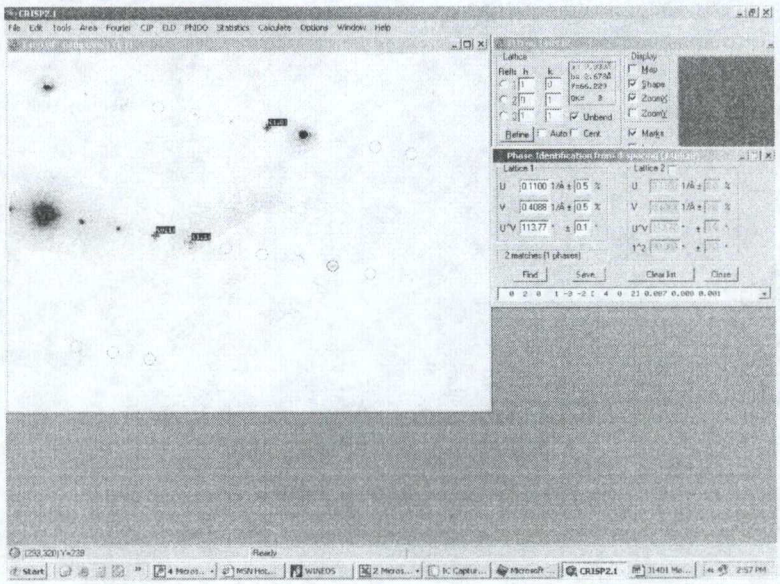
Descripiton:

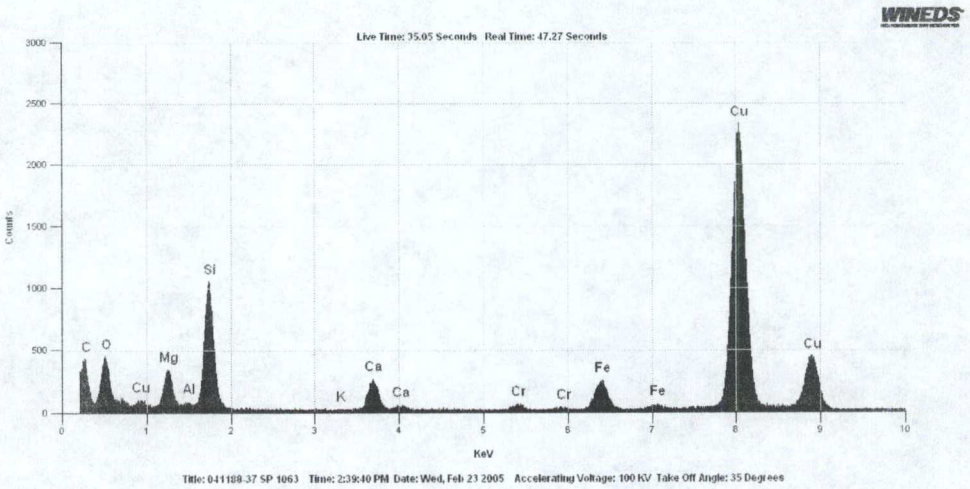
Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	80	A20		NSD									
C	81	A10		NSD									
C	82	B40		NSD									
C	83	B30	CD	79		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
C	83	B30	CD		79	MF	0.8	0.1	8.0			Chrysotile	
C	84	B20		NSD									
C	85	B31	CD	80	80	F	1	0.1	10			Chrysotile	TAS_AHRA
C	86	B21	AQ	81	81	F	3.8	1	3.8			Actinolite	TAS_AHRA
C	86	B21	CD	82	82	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
C	87	B11	AQ	83	83	F	1.8	0.25	7.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	B1	CD	84	84	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
C	89	C11	AQ	85	85	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

ACTINOLITE - Zone Axis [2 0 1]

041188-37 Neg# J1409

Gatan Image 2/23/05





Quantitative Analysis Results - Standardless Analysis :

041188-37 SP 1063 Wed, Feb 23 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 114.16

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.13	MgO	12.94	0.52	12.94
Al	0.23	Al2O3	0.52	0.22	0.52
Si	21.38	SiO2	57.86	1.21	57.86
K	0.10	K2O	0.22	0.16	0.22
Ca	4.41	CaO	11.14	0.60	11.14
Fe	4.82	Fe2O3	17.32	1.13	17.32
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.86	Si+4	8.0000	8.0000							
Al2O3	0.52	Al+3	0.1035	0.0000	0.1035						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.32	Fe+3	0.1396			0.1396	0.0000				
MgO	12.94	Mg+2	2.7675			2.7675	0.0000				
MnO	0	Fe+2	1.9264			1.9264	0.0000				
CaO	11.14	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7164					1.7164	0.0000		
K2O	0.22	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0579							0.0579	0.0000
Total	100		Excess	T site	0.1035	C site	0.0000	B site	0	A site	0
			Total	8		4.9370		1.7164		0.0579	0.0000
			%Fill	100		98.7391		85.8195			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-37-1063

Values		Satisfied Conditions
(Ca,Na)@B	1.72	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.72	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.06	Si > 7.5
Mg/(Mg+Fe2)	0.59	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S31 A1
Client Sample No. SFBB-L2-2CH-100604
Description
Analysis Date 2/22/2005
Analyst KM

Volume (L) 315.25
No. of Grid Openings 169
Filter Area (mm2) 193
Area Analyzed (mm2) 2.45
Analytical Sens. (struc/cc) 0.00100
Dectection Limit. (struc/cc) 0.00299

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	33.9	0.0830	0.0661 - 0.103 (Poisson)	83
Total Asbestos Structures	33.9	0.0830	0.0661 - 0.103 (Poisson)	83
Asbestos Structures > 5um	6.1	0.0150	0.00840 - 0.0247	15
Asbestos Fibers and Bundles > 5um	2.9	0.00700	0.00281 - 0.0144	7
PCM Equivalent Fibers-US	2.5	0.00600	0.00220 - 0.0131	6
PCM Equivalent Structures-ISO	2.5	0.00600	0.00220 - 0.0131	6
PROTOCOL ASB STRUCS 5-10	1.2	0.00300	0.00 - 0.00775	3
PROTOCOL ASB STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL ASB STRUCS TOTAL	1.2	0.00300	0.00 - 0.00775	3
PROTOCOL CHRYS STRUCS 5-10	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL CHRYS STRUCS TOTAL	0.4	0.00100	0.00 - 0.00474	1
PROTOCOL AMPH STRUCS 5-10	0.8	0.00200	0.00 - 0.00630	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00299	0.00 - 0.00299	0
PROTOCOL AMPH STRUCS TOTAL	0.8	0.00200	0.00 - 0.00630	2
AHERA-like Total Structures 3:1	33.9	0.0830	0.0661 - 0.103 (Poisson)	83
AHERA-like Asb Strucs >5 and 3:1	6.1	0.0150	0.00840 - 0.0247	15
AHERA-like Asb Strucs 5 - 10 and 3:1	4.9	0.0120	0.00620 - 0.0210	12
AHERA-like Asb Strucs >10 and 3:1	1.2	0.00300	0.00 - 0.00775	3
Total Other Amphibole Strucs 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00299	0.00 - 0.00299	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

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Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	D44		NSD									
A	2	D33		NSD									
A	3	C30		NSD									
A	4	C21		NSD									
A	5	D20		NSD									
A	6	D22		NSD									
A	7	D24		NSD									
A	8	D13	CDQ	1	1	F	1.75	0.1	18	98	15800	Mg, Si Chrysotile Verified - JH	TAS_AHRA
A	8	D13	CD	2	2	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	9	D11	CDQ	3	3	F	1.15	0.23	5.1			Mg, Si Chrysotile	TAS_AHRA
A	10	C10		NSD									
A	11	C12	CD	4	4	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
A	12	C14		NSD									
A	13	C3		NSD									
A	14	C1		NSD									
A	15	D2	CD	5	5	F	1.35	0.1	14			Chrysotile	TAS_AHRA
A	16	D4		NSD									
A	17	A3		NSD									
A	18	A1		NSD									
A	19	B2		NSD									
A	20	B4		NSD									
A	21	B13		NSD									
A	22	B11	CD	6	6	F	2.75	0.1	28			Chrysotile	TAS_AHRA
A	22	B11	CD	7		MD1-0	1.75	1.7	1.0			Chrysotile	TAS_AHRA
A	22	B11	CD		7	MF	1.2	0.2	6.0			Chrysotile	
A	23	A10		NSD									
A	24	A12		NSD									
A	25	A14	CD	8	8	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	26	A23		NSD									
A	27	A21		NSD									
A	28	B20		NSD									
A	29	B22		NSD									
A	30	B24		NSD									
B	31	C44		NSD									

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Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	C42		NSD									
B	33	C40		NSD									
B	34	D41	CD	9		MD1-0	15	8	1.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	34	D41	CD		9	MF	2.8	0.1	28			Chrysotile	
B	35	D43		NSD									
B	36	D34		NSD									
B	37	D32		NSD									
B	38	D30		NSD									
B	39	C31		NSD									
B	40	C33		NSD									
B	41	C24		NSD									
B	42	C22		NSD									
B	43	C20	AZQ	10	10	F	4.7	1.2	3.9	104	15805	Mg, Si, Ca, Fe Actinolite Zone Axis [7 1 2] - JH	TAS_AHRA
B	44	D21		NSD									
B	45	D23		NSD									
B	46	D14		NSD									
B	47	D12		NSD									
B	48	C11	AQ	11	11	F	2.7	0.25	11			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	49	C13		NSD									
B	50	C4		NSD									
B	51	C2		NSD									
B	52	D1		NSD									
B	53	D3		NSD									
B	54	A4	CD	12	12	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	55	A2		NSD									
B	56	B1	CD	13		MD1-0	2.8	2.4	1.2			Chrysotile	TAS_AHRA
B	56	B1	CD		13	MF	1.3	0.1	13			Chrysotile	
B	57	B3		NSD									
B	58	B14		NSD									
B	59	B12		NSD									
B	60	B10		NSD									
C	61	B34	CD	14		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
C	61	B34	CD		14	MF	1.2	0.15	8.0			Chrysotile	

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Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	62	B24		NSD									
C	63	B43		NSD									
C	64	B33	CD	15	15	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA
C	64	B33	CD	16	16	F	0.6	0.05	12			Chrysotile	TAS_AHRA
C	65	B22	CD	17		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
C	65	B22	CD		17	MF	0.6	0.1	6.0			Chrysotile	
C	66	B32		NSD									
C	67	B42		NSD									
C	68	B11		NSD									
C	69	B21	AQ	18	18	F	1.5	0.35	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	70	B31		NSD									
C	71	B41		NSD									
C	72	B10	AQ	19		MD1-0	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	B10	AQ		19	MF	2.5	0.3	8.3			Mg, Al, Si, Ca, Fe Actinolite	
C	72	B10	AQ	20		MD1-0	6.5	4	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	B10	AQ		20	MF	4	0.25	16			Mg, Al, Si, Ca, Fe Actinolite	
C	72	B10	CD	21		MD1-0	2	0.8	2.5			Chrysotile	TAS_AHRA
C	72	B10	CD		21	MF	1.8	0.1	18			Chrysotile	
C	73	B20		NSD									
C	74	B30		NSD									
C	75	B40		NSD									
C	76	A40		NSD									
C	77	A30		NSD									
C	78	A20		NSD									
C	79	A10		NSD									
C	80	A31		NSD									
C	81	A41	CD	22	22	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	81	A41	CD	23		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
C	81	A41	CD		23	MF	1.2	0.1	12			Chrysotile	
C	82	A32	AQ	24	24	F	12	2.5	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	83	A42		NSD									
C	84	A33		NSD									

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	85	A43		NSD									
D	86	B14	CD	25	25	F	1.1	0.1	11			Chrysotile	TAS_AHRA
D	87	C4	AQ	26		MD1-1	6.5	2.5	2.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	87	C4	AQ		26	MF	6.5	0.4	16			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
D	88	C24	CD	27		MD1-0	6	6	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	88	C24	CD		27	MF	2.5	0.1	25			Chrysotile	
D	88	C24	CD	28	28	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
D	89	C44	CD	29		MD1-0	2	0.5	4.0			Chrysotile	TAS_AHRA
D	89	C44	CD		29	MF	1.1	0.1	11			Chrysotile	
D	90	C43	CD	30	30	F	1.5	0.1	15			Chrysotile	TAS_AHRA
D	90	C43	CD	31	31	F	0.9	0.08	11			Chrysotile	TAS_AHRA
D	91	C33	CD	32		MD1-0	3.8	1	3.8			Chrysotile	TAS_AHRA
D	91	C33	CD		32	MF	3	0.12	25			Chrysotile	
D	91	C33	AQ	33		MD1-0	7.5	2.5	3.0			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	91	C33	AQ		33	MF	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	
D	92	C13	CD	34		MD1-0	6	2	3.0			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	92	C13	CD		34	MF	4.5	0.1	45			Chrysotile	
D	93	B3		NSD									
D	94	B23		NSD									
D	95	B32		NSD									
D	96	B12	AQ	35	35	F	4.8	1.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	97	C2	CD	36		MD1-0	3.8	3	1.3			Chrysotile	TAS_AHRA
D	97	C2	CD		36	MF	0.8	0.1	8.0			Chrysotile	
D	97	C2	CD	37		MD1-0	3.5	1.5	2.3			Chrysotile	TAS_AHRA
D	97	C2	CD		37	MF	2	0.11	18			Chrysotile	
D	98	C22	CD	38	38	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
D	99	C42		NSD									

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	100	C41	CD	39	39	F	6.2	0.11	56			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	100	C41	CD	40	40	F	3	0.1	30			Chrysotile	TAS_AHRA
D	101	C31		NSD									
D	102	C11		NSD									
D	103	B1	CD	41	41	F	0.8	0.08	10			Chrysotile	TAS_AHRA
D	103	B1	CD	42	42	F	1.2	0.1	12			Chrysotile	TAS_AHRA
D	104	B21		NSD									
D	105	B41		NSD									
D	106	B40		NSD									
D	107	B30	AQ	43		MD1-0	7	7	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	107	B30	AQ		43	MF	1.8	0.25	7.2			Mg, Al, Si, Ca, Fe Actinolite	
D	108	B10		NSD									
D	109	C10		NSD									
D	110	C30	CD	44	44	B	1.5	0.2	7.5			Chrysotile	TAS_AHRA
D	110	C30	CD	45	45	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
D	111	D40		NSD									
D	112	D20	AQ	46	46	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	113	D10	AQ	47	47	F	1.7	0.25	6.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	113	D10	CD	48		MD1-0	3.8	1.5	2.5			Chrysotile	TAS_AHRA
D	113	D10	CD		48	MF	1.8	0.12	15			Chrysotile	
D	114	A20		NSD									
D	115	A40	AQ	49	49	F	1.5	0.25	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	116	A41		NSD									
D	117	A31	AQ	50	50	F	1.5	0.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	118	A11	CD	51	51	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
D	119	B2	CD	52	52	F	1.2	0.08	15			Chrysotile	TAS_AHRA
D	120	B12		NSD									
E	121	B34		NSD									
E	122	B14		NSD									
E	123	C4	CD	53		MD1-0	1.8	0.5	3.6			Chrysotile	TAS_AHRA
E	123	C4	CD		53	MF	0.8	0.1	8.0			Chrysotile	
E	124	C24		NSD									

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Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	125	C44		NSD									
E	126	C33	CD	54	54	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	127	C13	AQ	55	55	F	6.5	2	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	128	B3		NSD									
E	129	B23	CD	56		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
E	129	B23	CD		56	MB	4	0.5	8.0			Chrysotile	
E	129	B23	CD	57		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
E	129	B23	CD		57	MF	4	0.1	40			Chrysotile	
E	130	B43		NSD									
E	131	B32		NSD									
E	132	B12	CD	58	58	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	132	B12	AQ	59		MD1-1	15	12	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	132	B12	AQ		59	MF	6.5	0.45	14			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
E	133	B2		NSD									
E	134	C2		NSD									
E	135	C22		NSD									
E	136	C21	CD	60	60	F	0.8	0.08	10			Chrysotile	TAS_AHRA
E	136	C21	CD	61		MD1-0	3	0.8	3.8			Chrysotile	TAS_AHRA
E	136	C21	CD		61	MF	1.5	0.08	19			Chrysotile	
E	137	C1		NSD									
E	138	B11	AQ	62	62	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	139	B21	CD	63	63	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
E	140	B31	CD	64	64	F	1.1	0.1	11			Chrysotile	TAS_AHRA
E	141	B40		NSD									
E	142	B20		NSD									
E	143	B10	CD	65	65	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
E	143	B10	CD	66	66	F	1.8	0.1	18			Chrysotile	TAS_AHRA
E	144	C10	CD	67		MD1-0	3	2	1.5			Chrysotile	TAS_AHRA
E	144	C10	CD		67	MF	0.8	0.1	8.0			Chrysotile	
E	145	D10		NSD									
E	146	A10		NSD									

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Sample No.: SFBB-L2-2CH-100604 *Lab/Cor Sample No.:* B4771 S31 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	147	A30		NSD									
E	148	A40	CD	68	68	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	149	A41	CD	69	69	F	1.1	0.1	11			Chrysotile	TAS_AHRA
E	149	A41	CD	70	70	F	1.5	0.1	15			Chrysotile	TAS_AHRA
E	149	A41	CD	71	71	F	2.5	0.1	25			Chrysotile	TAS_AHRA
E	150	A21		NSD									
E	151	A11	AQ	72	72	F	10	1	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	152	D1	CD	73	73	F	0.8	0.08	10			Chrysotile	TAS_AHRA
E	153	D11		NSD									
E	154	D2		NSD									
E	155	A2		NSD									
E	156	A22	CD	74	74	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	157	A32		NSD									
E	158	A42	AQ	75	75	F	9	2.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	158	A42	CD	76	76	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	159	A43	CD	77		MD1-0	1	0.5	2.0			Chrysotile	TAS_AHRA
E	159	A43	CD		77	MF	0.6	0.11	5.5			Chrysotile	
E	159	A43	CD	78	78	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
E	160	A33		NSD									
E	161	A13	CD	79	79	F	1.2	0.1	12			Chrysotile	TAS_AHRA
E	162	A3		NSD									
E	163	D3		NSD									
E	164	A14	CD	80	80	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	164	A14	CD	81	81	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
E	165	A24	AQ	82		MD1-0	9	6	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	165	A24	AQ		82	MF	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	
E	166	A34	CD	83	83	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
E	167	A44		NSD									
E	168	D13		NSD									
E	169	D33		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Correct the results

Lab/Cor Sample No. B4771 S39 A1
Client Sample No. NFB-L2-15CH-100504
Description
Analysis Date 2/24/2005
Analyst KM

Volume (L) 299.11
No. of Grid Openings 126
Filter Area (mm2) 193
Area Analyzed (mm2) 1.83
Analytical Sens. (struc/cc) 0.00188
Dectection Limit. (struc/cc) 0.00564

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	56.4	0.194	0.153 - 0.229 (Poisson)	103
Total Asbestos Structures	56.4	0.194	0.153 - 0.229 (Poisson)	103
Asbestos Structures > 5um	28.5	0.0980	0.0732 - 0.129 (Poisson)	52
Asbestos Fibers and Bundles > 5um	20.8	0.0716	0.0507 - 0.0983 (Poisson)	38
PCM Equivalent Fibers-US	19.7	0.0679	0.0475 - 0.0939 (Poisson)	36
PCM Equivalent Structures-ISO	16.4	0.0565	0.0382 - 0.0807	30
PROTOCOL ASB STRUCS 5-10	2.2	0.00754	0.00205 - 0.0193	4
PROTOCOL ASB STRUCS >10	0.0	<0.00564	0.00 - 0.00564	0
PROTOCOL ASB STRUCS TOTAL	2.2	0.00754	0.00205 - 0.0193	4
PROTOCOL CHRYS STRUCS 5-10	1.1	0.00377	0.00 - 0.0119	2
PROTOCOL CHRYS STRUCS >10	0.0	<0.00564	0.00 - 0.00564	0
PROTOCOL CHRYS STRUCS TOTAL	1.1	0.00377	0.00 - 0.0119	2
PROTOCOL AMPH STRUCS 5-10	1.1	0.00377	0.00 - 0.0119	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00564	0.00 - 0.00564	0
PROTOCOL AMPH STRUCS TOTAL	1.1	0.00377	0.00 - 0.0119	2
AHERA-like Total Structures 3:1	56.4	0.194	0.153 - 0.229 (Poisson)	103
AHERA-like Asb Strucs >5 and 3:1	28.5	0.0980	0.0732 - 0.129 (Poisson)	52
AHERA-like Asb Strucs 5 - 10 and 3:1	21.9	0.0754	0.0539 - 0.103 (Poisson)	40
AHERA-like Asb Strucs >10 and 3:1	6.6	0.0226	0.0117 - 0.0395	12
Total Other Amphibole Strucs 3:1	0.0	<0.00564	0.00 - 0.00564	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00564	0.00 - 0.00564	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00564	0.00 - 0.00564	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00564	0.00 - 0.00564	0

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	CD	1		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
A	1	B44	CD		1	MF	0.7	0.1	7.0			Chrysotile	
A	1	B44	CD	2	2	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	1	B44	AQ	3		MD1-1	6.5	6	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	B44	AQ		3	MF	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	1	B44	AQ	4	4	F	7.5	1	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	2	B24		NSD									
A	3	B4	CD	5		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
A	3	B4	CD		5	MF	1.2	0.1	12			Chrysotile	
A	4	C14	AQ	6	6	F	5.2	1.5	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	C34	AQ	7	7	F	17	1.1	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	C43	AQ	8		MD1-0	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	C43	AQ		8	MF	3.8	0.5	7.6			Mg, Al, Si, Ca, Fe Actinolite	
A	7	C23		NSD									
A	8	C3		NSD									
A	9	B13		NSD									
A	10	B33		NSD									
A	11	B42	CD	9	9	F	1.1	0.12	9.2			Chrysotile	TAS_AHRA
A	11	B42	CD	10	10	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	11	B42	AQ	11	11	F	12	1.8	6.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	12	B22	AZQ	12		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
A	12	B22	AZQ		12	MF	1.8	0.25	7.2	1440	1091	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [1 3 4] - KM	
A	13	B2	AQ	13	13	F	5.2	1.5	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	14	C12		NSD									
A	15	C32		NSD									
A	16	C31		NSD									

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Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	17	C11	AQ	14		MD1-1	7	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	C11	AQ		14	MF	5.5	0.8	6.9			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	18	B1	AQ	15	15	F	6.5	0.8	8.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	B21		NSD									
A	20	B41	CD	16		MD1-0	12	4	3.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	20	B41	CD		16	MB	3.8	0.2	19			Chrysotile	
A	21	B40		NSD									
A	22	B20	AQ	17	17	F	2.2	0.45	4.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	23	B10	AQ	18		MD1-0	6	5	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	23	B10	AQ		18	MF	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	
A	24	C20		NSD									
A	25	D40	CD	19		MD1-0	1.2	1	1.2			Chrysotile	TAS_AHRA
A	25	D40	CD		19	MF	0.6	0.1	6.0			Chrysotile	
A	26	D30		NSD									
A	27	D20		NSD									
A	28	A20	AQ	20	20	F	6.5	0.9	7.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	A40		NSD									
A	30	A41		NSD									
A	31	A11	AQ	21		MD1-0	5.5	2	2.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	31	A11	AQ		21	MF	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	
B	32	B44		NSD									
B	33	B24	CD	22	22	F	3.2	0.1	32			Chrysotile	TAS_AHRA
B	33	B24	AZQ	23		MD1-0	6	4	1.5			Amosite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	B24	AZQ		23	MF	3.5	0.45	7.8	1456	1107	Na, Mg, Al, Si, Fe Amosite Zone Axis [9 1 4] - KM	
B	34	B4	AQ	24	24	F	6	0.7	8.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	C14	AQ	25	25	F	3.8	0.2	19			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

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Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	36	C34	CD	26	26	B	12	0.8	15			Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	C34	CD	27	27	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	37	C33		NSD									
B	38	C23	CD	28	28	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	38	C23	CD	29		MD1-1	6	1.5	4.0			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	C23	CD		29	MB	6	0.1	60			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	38	C23	CD	30		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	C23	CD		30	MF	1.2	0.1	12			Chrysotile	
B	39	C3	AQ	31		MD1-0	5	3	1.7			Actinolite	TAS_AHRA
B	39	C3	AQ		31	MF	4.8	1.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	
B	40	B13	AQ	32		MD1-0	4	3	1.3			Actinolite	TAS_AHRA
B	40	B13	AQ		32	MF	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	
B	41	B33	CD	33	33	F	1	0.1	10			Chrysotile	TAS_AHRA
B	42	B42		NSD									
B	43	B22		NSD									
B	44	B2		NSD									
B	45	C12		NSD									
B	46	C32	CD	34	34	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	46	C32	AQ	35	35	F	4.5	0.6	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	47	C41	CD	36	36	F	2.8	0.1	28			Chrysotile	TAS_AHRA
B	48	C21	AQ	37	37	F	3	0.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	49	C1		NSD									
B	50	B11	AQ	38	38	F	7	1.5	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	B31	AQ	39		MD1-1	18	8	2.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	51	B31	AQ		39	MF	8.2	1.2	6.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	52	B30		NSD									
B	53	B10		NSD									
B	54	A41	CD	40		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
B	54	A41	CD		40	MF	0.8	0.1	8.0			Chrysotile	

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Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	54	A41	CD	41	41	B	1.8	0.2	9.0			Chrysotile	TAS_AHRA
B	55	A31		NSD									
B	56	A21	CD	42		MD1-0	5.5	1.2	4.6			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	56	A21	CD		42	MF	4.8	0.1	48			Chrysotile	
B	57	A40	AQ	43		MD1-0	5.2	2.5	2.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	57	A40	AQ		43	MF	1.5	0.35	4.3			Mg, Al, Si, Ca, Fe Actinolite	
B	58	A30		NSD									
B	59	A10		NSD									
B	60	C10	AQ	44		MD1-1	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	60	C10	AQ		44	MF	5.2	0.5	10			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
C	61	B44		NSD									
C	62	B24	AQ	45		MD1-0	7	1.2	5.8			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	62	B24	AQ		45	MF	4	0.56	7.1			Mg, Al, Si, Ca, Fe Actinolite	
C	63	B4	AQ	46	46	F	4	0.4	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	64	C14	CD	47		MD1-0	5	1.2	4.2			Chrysotile	TAS_AHRA
C	64	C14	CD		47	MB	3.3	0.2	16			Chrysotile	
C	65	C34	AQ	48		MD1-1	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	65	C34	AQ		48	MF	5.2	0.6	8.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	65	C34	AQ	49	49	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	65	C34	AQ	50	50	F	8.5	0.8	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	66	C43		NSD									
C	67	C23	AQ	51	51	F	2.7	0.4	6.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	68	C3	AQ	52		MD1-0	15	12	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	68	C3	AQ		52	MF	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	
C	68	C3	AQ	53		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	68	C3	AQ		53	MF	6.8	1.1	6.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

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Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	68	C3	CD	54		MD1-0	4	3.8	1.1			Chrysotile	TAS_AHRA
C	68	C3	CD		54	MF	1.2	0.1	12			Chrysotile	
C	68	C3	AQ	55	55	F	3.8	0.4	9.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	B13		NSD									
C	70	B33	AQ	56	56	F	7.5	1.8	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	70	B33	AQ	57		MD1-0	4	3	1.3			Actinolite	TAS_AHRA
C	70	B33	AQ		57	MF	3.8	0.8	4.8			Mg, Al, Si, Ca, Fe Actinolite	
C	71	B32	CD	58		MD1-0	3	1.2	2.5			Chrysotile	TAS_AHRA
C	71	B32	CD		58	MF	1.2	0.1	12			Chrysotile	
C	71	B32	AQ	59		MD1-1	8	6	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	71	B32	AQ		59	MF	7	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	72	B12	AQ	60	60	F	3	0.3	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	73	C2	AQ	61	61	F	12.5	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	73	C2	AQ	62	62	F	4.8	1.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	73	C2	AQ	63	63	F	3.2	0.7	4.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	74	C22	AQ	64	64	F	14	3	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	75	C42		NSD									
C	76	C31		NSD									
C	77	C11	AQ	65	65	F	11.6	2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	78	B1	CD	66		MD1-1	8	2.8	2.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	78	B1	CD		66	MF	8.5	0.1	85			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
C	79	B21	CD	67	67	F	1.2	0.11	11			Chrysotile	TAS_AHRA
C	80	B41		NSD									
C	81	B40		NSD									
C	82	B20	AQ	68		MD1-1	7	2.2	3.2			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	82	B20	AQ		68	MF	5.5	0.7	7.9			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

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Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	83	B10		NSD									
C	84	C10	AQ	69		MD1-0	4.5	2.85	1.6			Actinolite	TAS_AHRA
C	84	C10	AQ		69	MF	3.2	0.7	4.6			Mg, Al, Si, Ca, Fe Actinolite	
C	84	C10	AQ	70	70	F	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	85	C30	AQ	71	71	F	1.5	0.5	3.0			Mg, Si, Fe Amosite	TAS_AHRA
C	86	A31	AQ	72	72	F	7	1.5	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	87	A11	AQ	73	73	F	4.5	0.7	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	D1	AQ	74	74	F	7.5	0.5	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	88	D1	AQ	75		MD1-1	6.8	2	3.4			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	88	D1	AQ		75	MF	6.5	0.8	8.1			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	89	D11		NSD									
C	90	D21		NSD									
D	91	B44	AQ	76	76	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	92	B24		NSD									
D	93	B4	CDQ	77		MD1-0	4	3	1.3			Chrysotile	TAS_AHRA
D	93	B4	CDQ		77	MF	1.1	0.1	11	1459	1108	Mg, Si Chrysotile Verified - KM	
D	94	C14	AQ	78		MD1-1	10	4	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	94	C14	AQ		78	MF	6.5	1.8	3.6			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	95	C34		NSD									
D	96	C43		NSD									
D	97	C23		NSD									
D	98	C3	AQ	79	79	F	1.5	0.35	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	99	B13		NSD									
D	100	B33	AQ	80		MD1-1	7	2	3.5			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	100	B33	AQ		80	MF	5.2	1.2	4.3			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	101	B22		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	102	B2	AQ	81		MD1-0	10	6	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	102	B2	AQ		81	MF	4.2	0.5	8.4			Mg, Al, Si, Ca, Fe Actinolite	
D	103	C12		NSD									
D	104	C42		NSD									
D	105	C41	CMQ	82		MD1-0	3.5	1.2	2.9			Chrysotile	TAS_AHRA
D	105	C41	CMQ		82	MF	1.2	0.1	12			Mg, Si Chrysotile	
D	106	C21	AQ	83		MD1-0	4	4	1.0			Actinolite	TAS_AHRA
D	106	C21	AQ		83	MF	2.7	0.6	4.5			Mg, Al, Si, Ca, Fe Actinolite	
D	107	C1		NSD									
D	108	B11	AQ	84	84	F	6	0.65	9.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	108	B11	AQ	85		MD1-1	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	108	B11	AQ		85	MF	5	0.6	8.3			Mg, Al, Si, Ca, Fe Actinolite	
D	109	B31	AQ	86		MD1-1	6	3.5	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	109	B31	AQ		86	MF	5.8	0.55	11			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	109	B31	CD	87	87	F	2	0.1	20			Chrysotile	TAS_AHRA
D	110	B40		NSD									
D	111	B20		NSD									
D	112	B10	CD	88	88	F	1.2	0.1	12			Chrysotile	TAS_AHRA
D	113	C20	AQ	89	89	F	14	2.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	113	C20	CD	90	90	F	1.5	0.1	15			Chrysotile	TAS_AHRA
D	114	C40	AQ	91	91	F	3.5	0.7	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	114	C40	AQ	92	92	F	4	0.85	4.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	115	D41	AQ	93	93	F	8	1.2	6.7			Mg, Al, Si, Ca, Feq Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	115	D41	AQ	94	94	F	7	1.2	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	116	D21		NSD									
D	117	D11		NSD									
D	118	A11	AQ	95	95	F	2.2	0.4	5.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-15CH-100504 *Lab/Cor Sample No.:* B4771 S39 A1

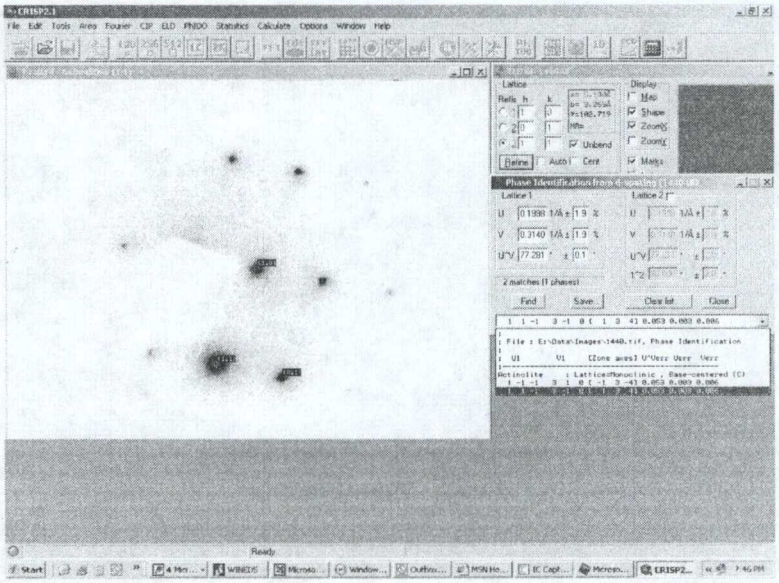
Descripiton:

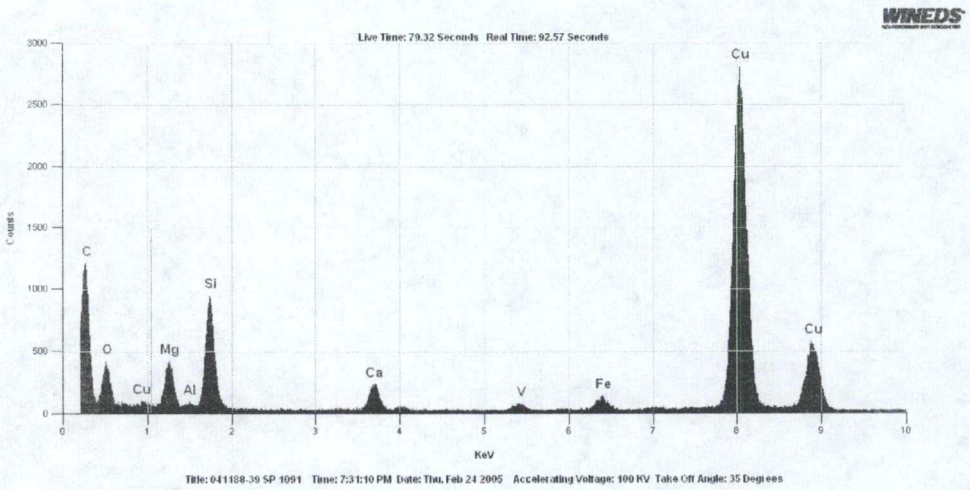
Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	119	A31		NSD									
D	120	A42	AQ	96		MD1-0	5.5	1	5.5			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	120	A42	AQ		96	MF	4.2	0.3	14			Mg, Al, Si, Ca, Fe Actinolite	
D	121	A22		NSD									
D	122	A2	AQ	97		MD1-0	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	122	A2	AQ		97	MF	4.5	0.7	6.4			Mg, Al, Si, Ca, Fe Actinolite	
D	123	D12		NSD									
D	124	D32		NSD									
D	125	D42	AQ	98		MD1-1	7	4	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	125	D42	AQ		98	MF	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	125	D42	AQ	99	99	F	8	2	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	126	D2	CD	100	100	F	1	0.1	10			Chrysotile	TAS_AHRA
D	126	D2	AQ	101	101	F	.12	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	126	D2	AQ	102	102	F	4.2	1.2	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	126	D2	AQ	103	103	F	4.2	0.8	5.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

ACTINOLITE - Zone Axis [1 3 4]

041188-39 Neg# J1440

Gatan Image 2/24/05





Quantitative Analysis Results - Standardless Analysis :

041188-39 SP 1091 Thu, Feb 24 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 174.62

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.22	MgO	19.14	0.67	19.14
Al	0.27	Al2O3	0.63	0.25	0.63
Si	21.22	SiO2	59.28	1.33	59.28
Ca	4.58	CaO	11.95	0.67	11.95
Fe	2.42	Fe2O3	8.99	0.96	8.99
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	59.28	Si+4	8.0000	8.0000							
Al2O3	0.63	Al+3	0.1069	0.0000	0.1069						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	8.99	Fe+3	0.2887			0.2887	0.0000				
MgO	19.14	Mg+2	3.8908			3.8908	0.0000				
MnO	0	Fe+2	0.7131			0.7131	0.0000				
CaO	11.95	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7498					1.7498	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	99.99		Excess	T site	0.1069	C site	0.0000	B site	0	A site	0
			Total	8		4.9995		1.7498		0.0000	0.0000
			%Fill	100		99.9893		87.4905			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-39-1091

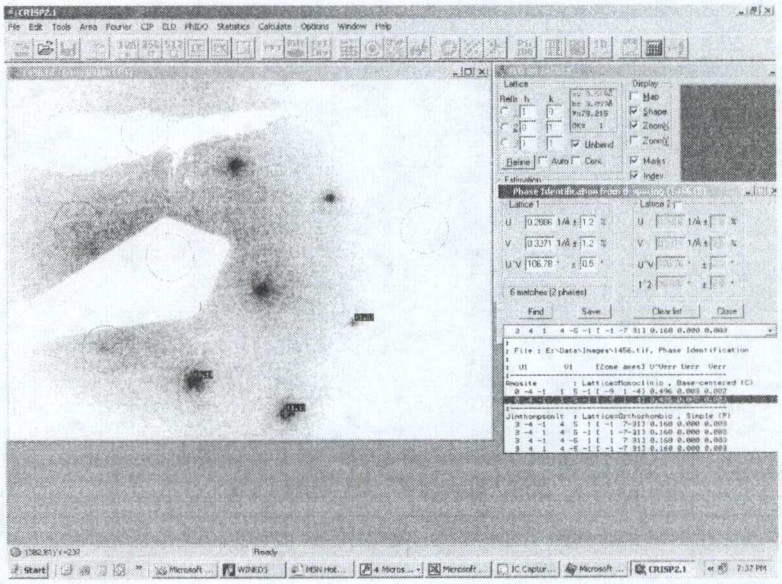
Values		Satisfied Conditions
(Ca,Na)@B	1.75	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.75	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.85	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

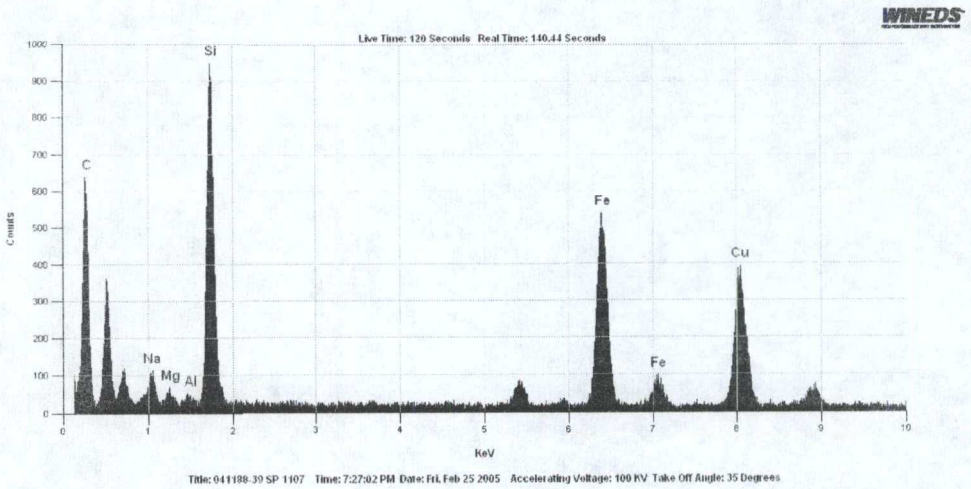
Mineral Analysis Program (Version 5.0)

AMOSITE - Zone Axis [9 1 4]

041188-39 Neg# J1456

Gatan Image 2/25/05





Quantitative Analysis Results - Standardless Analysis :

041188-39 SP 1107 Fri, Feb 25 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 33.95

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	2.25	Na2O	2.89	0.31	2.89
Mg	0.80	MgO	1.34	0.25	1.34
Al	0.14	Al2O3	0.30	0.15	0.30
Si	20.21	SiO2	50.37	1.12	50.37
Fe	13.62	Fe2O3	45.10	1.75	45.10
<Total>	100.00		100.00		100.00

	Wt Percent		Ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	50.37	Si+4	8.0000	8.0000							
Al2O3	0.3	Al+3	0.0650	0.0000	0.0650						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	45.1	Fe+3	0.0000			0.0000	0.0000				
MgO	1.34	Mg+2	0.3410			0.3410	0.0000				
MnO	0	Fe+2	6.0446			4.5940	1.4506				
CaO	0	Mn+2	0.0000			0.0000	0.0000				
Na2O	2.89	Ca+2	0.0000					0.0000	0.0000		
K2O	0	Na+	0.9171					0.5494	0.3677	0.3677	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0650	C site	1.4506	B site	0.3677285	A site	0
			Total	8		5.0000		0.5494		0.3677	0.0000
			%Fill	100		100		27.4702			

Prefix Sodic

Name grunerite, ferro-anthophyllite, ferroholmquistite, clinoferroholmquistite

Modifier none

Group Mg-Fe-Mn Amphibole

Sample # 041188-39-1107

Values		Satisfied Conditions
(Ca,Na)@B	0.55	(Ca,Na)@B < 1 and (Mg,Fe2,Mn)@B >= 0.95
(Mg,Fe2,Mn)@B	1.45	(Mg/(Mg+Fe2))< 0.5
Mg/(Mg+Fe2)	0.05	Si > 7
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S40 A1
Client Sample No. NFB-L2-1CH-100504
Description
Analysis Date 2/26/2005
Analyst TM

Volume (L) 306.25
No. of Grid Openings 131
Filter Area (mm2) 193
Area Analyzed (mm2) 1.90
Analytical Sens. (struc/cc) 0.00133
Dectection Limit. (struc/cc) 0.00397

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	53.7	0.135	0.108 - 0.162 (Poisson)	102
Total Asbestos Structures	52.7	0.133	0.108 - 0.162 (Poisson)	100
Asbestos Structures > 5um	15.3	0.0385	0.0258 - 0.0553	29
Asbestos Fibers and Bundles > 5um	11.1	0.0279	0.0173 - 0.0426	21
PCM Equivalent Fibers-US	9.0	0.0226	0.0132 - 0.0361	17
PCM Equivalent Structures-ISO	7.9	0.0199	0.0111 - 0.0329	15
PROTOCOL ASB STRUCS 5-10	0.5	0.00133	0.00 - 0.00629	1
PROTOCOL ASB STRUCS >10	0.5	0.00133	0.00 - 0.00629	1
PROTOCOL ASB STRUCS TOTAL	1.1	0.00266	0.00 - 0.00837	2
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00397	0.00 - 0.00397	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00397	0.00 - 0.00397	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00397	0.00 - 0.00397	0
PROTOCOL AMPH STRUCS 5-10	0.5	0.00133	0.00 - 0.00629	1
PROTOCOL AMPH STRUCS >10	0.5	0.00133	0.00 - 0.00629	1
PROTOCOL AMPH STRUCS TOTAL	1.1	0.00266	0.00 - 0.00837	2
AHERA-like Total Structures 3:1	53.2	0.134	0.108 - 0.162 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	15.3	0.0385	0.0258 - 0.0553	29
AHERA-like Asb Strucs 5 - 10 and 3:1	7.4	0.0186	0.0102 - 0.0312	14
AHERA-like Asb Strucs >10 and 3:1	7.9	0.0199	0.0111 - 0.0329	15
Total Other Amphibole Strucs 3:1	0.5	0.00133	0.00 - 0.00629	1
Other Amphibole Strucs >5 and 3:1	0.5	0.00133	0.00 - 0.00629	1
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00397	0.00 - 0.00397	0
Other Amphibole Strucs >10 and 3:1	0.5	0.00133	0.00 - 0.00629	1

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	C44		NSD									
A	2	C42		NSD									
A	3	C40	AQ	1		MD1-0	14.5	8	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	3	C40	AQ		1	MF	3.6	0.25	14			Mg, Al, Si, K, Ca, Fe Actinolite	
A	4	D41	AQ	2	2	F	5.2	0.8	6.5			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	D43		NSD									
A	6	D34		NSD									
A	7	D32	CDQ	3	3	B	3	0.2	15	127	15827	Mg, Si, Fe Chrysotile Verified - JH	TAS_AHRA
A	8	D30	AZQ	4		MD1-0	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	8	D30	AZQ		4	MF	3.9	0.8	4.9	128	15828	Mg, Si, Ca, Fe Actinolite Zone Axis [3 1 3] - KM	
A	9	C31		NSD									
A	10	C33		NSD									
A	11	C24	AQ	5	5	F	2.5	0.3	8.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	11	C24	AQ	6	6	F	1.55	0.25	6.2			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	12	C22		NSD									
A	13	C20		NSD									
A	14	D21		NSD									
A	15	D14		NSD									
A	16	D12		NSD									
A	17	D10		NSD									
A	18	C11		NSD									
A	19	C13	AQ	7	7	F	2.8	0.8	3.5			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	20	C4	AQ	8		MD1-0	3	2	1.5			Actinolite	TAS_AHRA
A	20	C4	AQ		8	MF	2.9	0.5	5.8			Mg, Si, Ca, Fe Actinolite	
A	21	C2	AQ	9	9	F	1.75	0.25	7.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	21	C2	AQ	10	10	F	4.95	1.5	3.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	22	D1		NSD									
A	23	D3	CD	11	11	F	1.85	0.1	18			Chrysotile	TAS_AHRA
A	24	A2		NSD									
A	25	B1		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	26	B3		NSD									
A	27	B14		NSD									
A	28	B12	AQ	12		MD1-0	16.5	4.5	3.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	28	B12	AQ		12	MF	1.7	0.3	5.7			Mg, Si, Ca, Fe Actinolite	
A	29	B10	CD	13	13	F	0.95	0.1	9.5			Chrysotile	TAS_AHRA
A	30	A11		NSD									
B	31	C44	CD	14	14	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	32	C42		NSD									
B	33	C40		NSD									
B	34	D41	CD	15	15	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	35	D43	CD	16	16	F	0.95	0.1	9.5			Chrysotile	TAS_AHRA
B	36	D34		NSD									
B	37	D32		NSD									
B	38	D30	CD	17	17	F	1.1	0.15	7.3			Chrysotile	TAS_AHRA
B	39	C31		NSD									
B	40	C33	CD	18	18	F	1.6	0.2	8.0			Chrysotile	TAS_AHRA
B	41	C24	CD	19		MD1-0	10.5	7	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	41	C24	CD		19	MF	0.9	0.1	9.0			Chrysotile	
B	42	C22		NSD									
B	43	C20	CD	20	20	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	44	D21		NSD									
B	45	D23	CD	21	21	F	1.1	0.1	11			Chrysotile	TAS_AHRA
B	46	D14		NSD									
B	47	D12		NSD									
B	48	D10		NSD									
B	49	C11		NSD									
B	50	C13		NSD									
B	51	C4	CD	22	22	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	52	C2		NSD									
B	53	D1		NSD									
B	54	D3		NSD									
B	55	A2		NSD									
B	56	B1		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	57	B3	CD	23	23	F	1.1	0.1	11			Chrysotile	TAS_AHRA
B	57	B3	AZQ	24	24	F	1.7	0.25	6.8	141	15831	Mg, Si, Ca, Fe Tremolite Zone Axis [1 0 1] - KM	TAS_AHRA
B	57	B3	CD	25	25	F	2.05	0.1	20			Chrysotile	TAS_AHRA
C	58	B44	CD	26	26	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	59	B24		NSD									
C	60	B4	AQ	27	27	F	7.2	0.7	10			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	60	B4	AQ	28		MD1-1	12	3.5	3.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	60	B4	AQ		28	MF	12	1.2	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	61	C4		NSD									
C	61	C4	AQ	29	29	F	5.7	1.25	4.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	61	C44	AQ	30	30	F	1.25	0.25	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	62	C44	CD	31	31	F	1.75	0.1	18			Chrysotile	TAS_AHRA
C	63	C13	CD	32	32	F	0.85	0.1	8.5			Chrysotile	TAS_AHRA
C	63	C13	CD	33	33	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	64	B3	AQ	34	34	F	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	64	B3	OZQ	35	35	F	11.3	3.3	3.4	1482	15862	Mg, Al, Si, K, Ca, Fe Ferro-edenite Potassic, Zone Axis [1 1 1] - JH	TOS_AHRA, OS>5_AHRA, OS>10_AHRA
C	64	B3	CD	36	36	F	2.1	0.18	12			Chrysotile	TAS_AHRA
C	65	B23	AQ	37	37	F	3	0.5	6.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	65	B23	AQ	38	38	F	1.25	0.2	6.2			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	65	B23	AQ	39	39	F	10.1	0.45	22			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS >10, PSAS TOT, PSAM >10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	66	C12	AZQ	40		MD1-0	2.8	1.2	2.3			Winchite	TAS_AHRA
C	66	C12	AZQ		40	MF	1.75	0.25	7.0	178	15875	Na, Mg, Si, Fe Winchite Ferri, Zone Axis [4 -1 -1] - TM	
C	66	C12	CD	41	41	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	67	C2	CD	42	42	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	68	C22	AQ	43	43	F	5	1.2	4.2			Mg, Al, Si, Ca, Fe Actinolite Ferrianactinolite	TAS_AHRA
C	69	C42	CD	44		MD1-0	3	1.7	1.8			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	69	C42	CD		44	MF	0.95	0.2	4.8			Chrysotile	
C	70	C31	CD	45	45	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	71	C11		NSD									
C	72	B1		NSD									
C	73	B21	AQ	46		MD1-0	25.5	18	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	73	B21	AQ		46	MF	3.75	1.1	3.4			Mg, Si, Ca, Fe Actinolite	
C	74	B10	CD	47	47	F	0.95	0.1	9.5			Chrysotile	TAS_AHRA
C	75	C20		NSD									
C	76	C40	CD	48	48	F	1.05	0.15	7.0			Chrysotile	TAS_AHRA
C	76	C40	CD	49	49	F	1.1	0.15	7.3			Chrysotile	TAS_AHRA
C	76	C40	CD	50		MD1-0	1.8	1.6	1.1			Chrysotile	TAS_AHRA
C	76	C40	CD		50	MF	1.1	0.1	11			Chrysotile	
C	76	C40	CD	51		MD1-0	1.2	0.75	1.6			Chrysotile	TAS_AHRA
C	76	C40	CD		51	MF	0.7	0.1	7.0			Chrysotile	
C	77	D30		NSD									
C	78	D10	CD	52	52	F	1.45	0.2	7.2			Chrysotile	TAS_AHRA
C	78	D10	AQ	53	53	F	1.5	0.25	6.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	79	D2	AQ	54		MD1-1	17.5	11	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	79	D2	AQ		54	MF	5.5	0.7	7.9			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	79	D2	CD	55		MD1-0	2.75	0.95	2.9			Chrysotile	TAS_AHRA
C	79	D2	CD		55	MF	1.85	0.1	18			Chrysotile	
C	80	A42	CD	56		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
C	80	A42	CD		56	MF	2	0.1	20			Chrysotile	
C	81	A22	AQ	57	57	F	10	2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	82	A2	CD	58	58	B	4	0.15	27			Mg, Al, Si, Ca, Fe Chrysotile	TAS_AHRA
C	82	A2	AQ	59	59	F	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	82	A2	CD	60	60	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
C	83	D12	AQ	61	61	F	8.5	1.8	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	83	D12	AQ	62		MD1-0	5.5	4	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	83	D12	AQ		62	MF	3.5	0.3	12			Mg, Al, Si, Ca, Fe Actinolite	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	83	D12	CD	63	63	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
C	84	D32	AQ	64	64	F	3.2	0.6	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	85	D41	AQ	65	65	F	5.2	1.7	3.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	86	D21	AQ	66	66	F	5.7	0.5	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	87	D1	AQ	67	67	F	3.8	0.68	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	A11		NSD									
C	89	A31	AQ	68	68	F	3	1	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	90	A23		NSD									
D	91	B24		NSD									
D	92	B4		NSD									
D	93	C14	AQ	69	69	F	1.2	0.35	3.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	94	C34	AQ	70		MD1-0	8.5	7	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	94	C34	AQ		70	MF	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	
D	94	C34	AQ	71		MD1-0	4.5	2	2.2			Actinolite	TAS_AHRA
D	94	C34	AQ		71	MF	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	
D	95	C43	CD	72		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
D	95	C43	CD		72	MF	0.6	0.1	6.0			Chrysotile	
D	96	C23	AQ	73	73	F	4.5	0.5	9.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	96	C23	CD	74	74	F	4.8	0.11	44			Chrysotile	TAS_AHRA
D	97	C3	AQ	75	75	F	3.8	1	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	98	B13	CD	76	76	F	0.8	0.08	10			Chrysotile	TAS_AHRA
D	99	B33	CD	77	77	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
D	100	B42	AQ	78	78	F	22	3	7.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	100	B42	AQ	79	79	F	4.8	1.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	101	B22	AQ	80	80	F	4.5	0.7	6.4			Na, Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	101	B22	AQ	81	81	F	2.7	0.6	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	102	B2		NSD									
D	103	C12	AQ	82	82	F	4.2	0.5	8.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	104	C32		NSD									
D	105	C42		NSD									
D	106	C40		NSD									
D	107	C20		NSD									
D	108	C10		NSD									
D	109	B10	AQ	83	83	F	20	1.7	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	109	B10	AQ	84	84	F	4.6	1	4.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	110	B30		NSD									
D	111	B40		NSD									
D	112	A41	AQ	85	85	F	26.5	3.3	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	112	A41	AQ	86	86	F	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	113	A21	AQ	87	87	F	5.1	0.6	8.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	114	A1		NSD									
D	115	D11	AQ	88	88	F	12	3.8	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	116	D31		NSD									
D	117	D23	AQ	89		MD1-0	13	8	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	117	D23	AQ		89	MF	2.5	0.3	8.3			Mg, Al, Si, Ca, Fe Actinolite	
D	118	D3	AQ	90	90	F	3.6	0.45	8.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
D	118	D3	AQ	91	91	F	12	1.5	8.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	119	A13		NSD									
D	120	A33		NSD									
E	121	A33	AQ	92	92	F	1.2	0.2	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	122	A13		NSD									
E	123	D3	AQ	93	93	F	2.2	0.5	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	124	D23	AQ	94	94	F	3.5	0.3	12			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	125	D43	AQ	95	95	F	8	1	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	126	C40	AQ	96	96	F	2.4	0.4	6.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

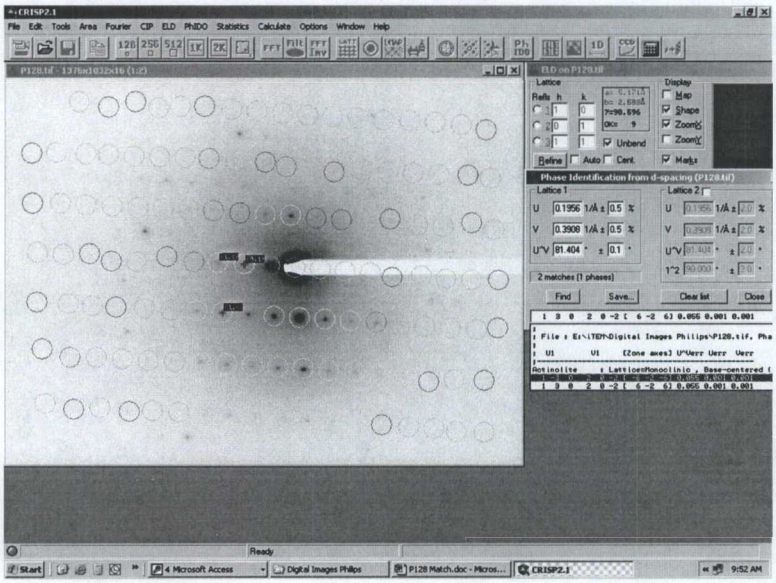
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

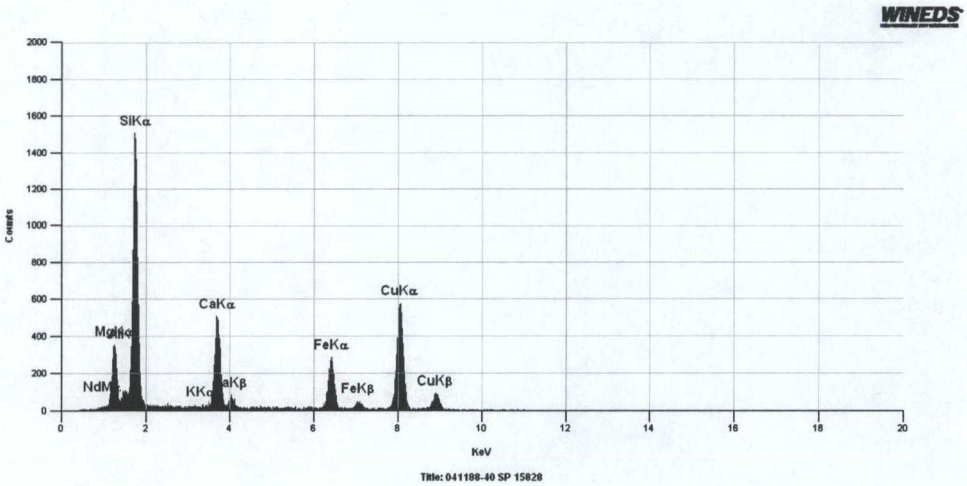
Sample No.: NFB-L2-1CH-100504 *Lab/Cor Sample No.:* B4771 S40 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	127	C10		NSD									
E	128	B10		NSD									
E	129	B30	AQ	97	97	F	23	4	5.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	130	B42	AQ	98	98	F	5.1	1.5	3.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	131	B22	AQ	99	99	F	7	2.2	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	131	B22	AQ	100	100	F	12	4	3.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	131	B22	AQ	101	101	F	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	131	B22	AQ	102	102	F	2	0.5	4.0			Mg, Si, Ca, Fe Tremolite	TAS_AHRA

ACTINOLITE
Zone Axis [3 1 3]
Neg# P128 Job# 041188-40
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-40 SP 15828 Fri, Feb 25 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 8.85
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.88	MgO	16.43	0.77	16.43
Al	0.38	Al2O3	0.88	0.20	0.88
Si	21.27	SiO2	58.69	1.43	58.69
K	0.10	K2O	0.21	0.19	0.21
Ca	4.56	CaO	11.75	0.60	11.75
Fe	3.28	Fe2O3	12.03	0.91	12.03
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.69	Si+4	8.0000	8.0000							
Al2O3	0.88	Al+3	0.1540	0.0000	0.1540						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	12.03	Fe+3	0.0944			0.0944	0.0000				
MgO	16.43	Mg+2	3.4116			3.4116	0.0000				
MnO	0	Fe+2	1.3079			1.3079	0.0000				
CaO	11.75	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7589					1.7589	0.0000		
K2O	0.21	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0486							0.0486	0.0000
Total	99.99		Excess	T site	0.1540	C site	0.0000	B site	0	A site	0
			Total	8		4.9680		1.7589		0.0486	0.0000
			%Fill	100		99.3592		87.9437			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-40-15828

Values		Satisfied Conditions
(Ca,Na)@B	1.76	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.76	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.05	Si > 7.5
Mg/(Mg+Fe2)	0.72	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

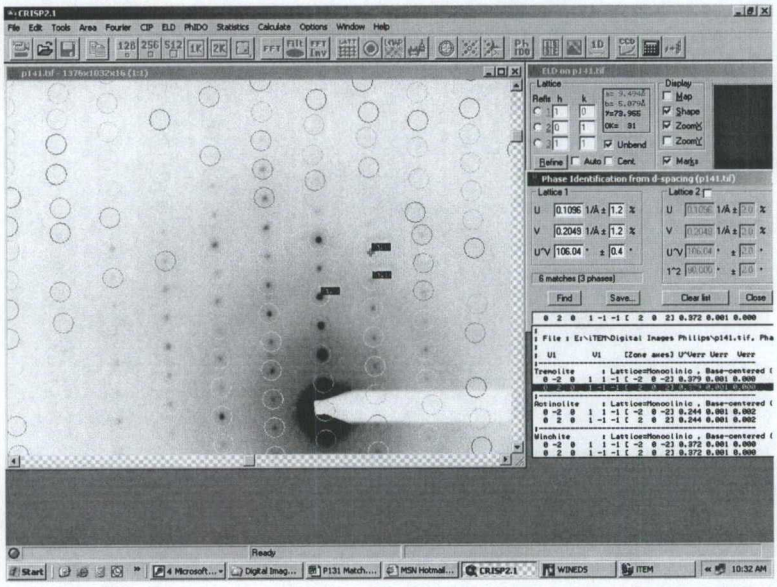
Mineral Analysis Program (Version 5.0)

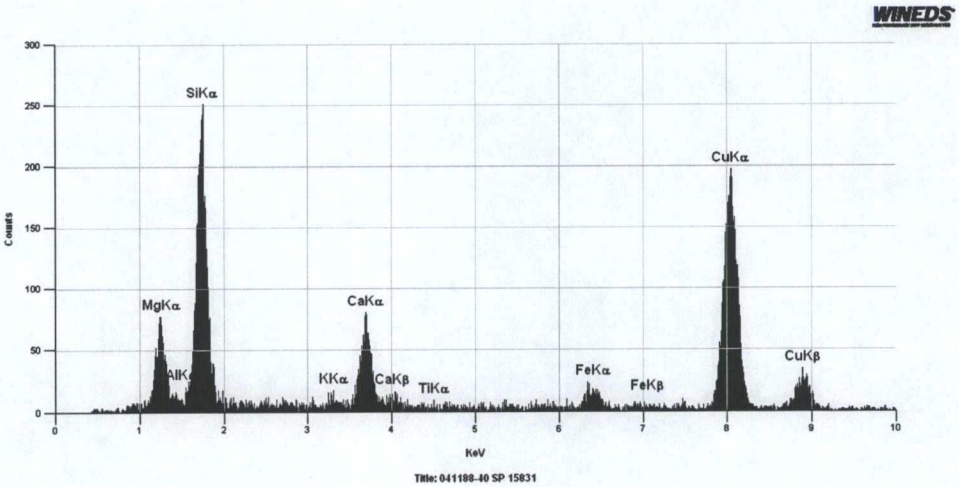
TREMOLITE

Zone Axis [1 0 1]

Neg# P141 Job# 041188-40

iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-40 SP 15831 Sat, Feb 26 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 16.32
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	29.01	Mg	24.40	1.57	24.40
Si	57.42	Si	55.81	2.05	55.81
K	0.97	K	1.32	0.64	1.32
Ca	10.77	Ca	14.94	1.24	14.94
Fe	1.83	Fe	3.53	1.29	3.53
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	55.81	Si+4	7.6415	7.6415							
Al2O3	0	Al+3	0.0000	0.0000	**0.0000**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.53	Fe+3	0.0655			0.0655	0.0000				
MgO	24.4	Mg+2	4.9806			4.9345	**0.0461**				
MnO	0	Fe+2	0.3314			0.0000	**0.3314**				
CaO	14.94	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0	Ca+2	2.1915					1.6225	0.5690		
K2O	1.32	Na+	0.0000					0.0000	**0.0000**	0.0000	0.0000
		K+	0.2305							0.2305	0.0000
Total	**100**		**Excess**	T site	**0.0000**	C site	**0.3775**	B site	**0.5689666**	A site	**0**
			Total	**7.6415**		**5.0000**		**1.6225**		**0.2305**	**0.0000**
			%Fill	**95.519**		**100**		**81.1263**			

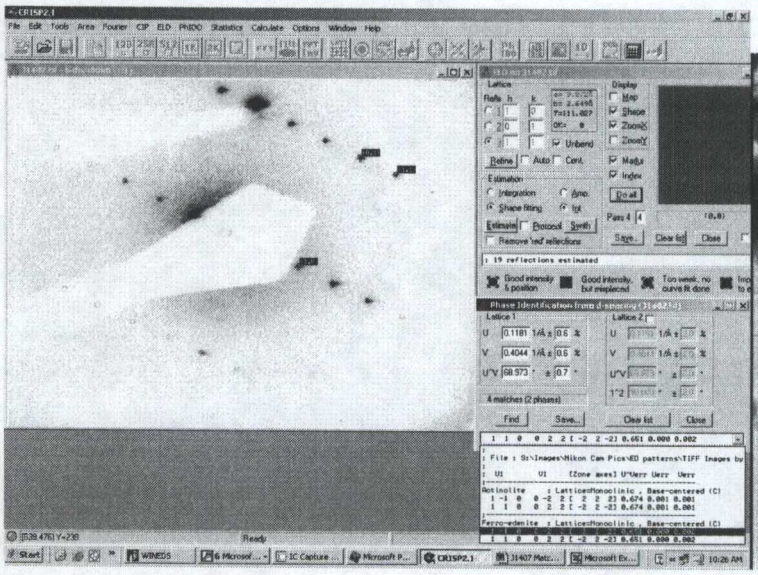
Prefix none
Name tremolite
Modifier none
Group Calcic Amphibole

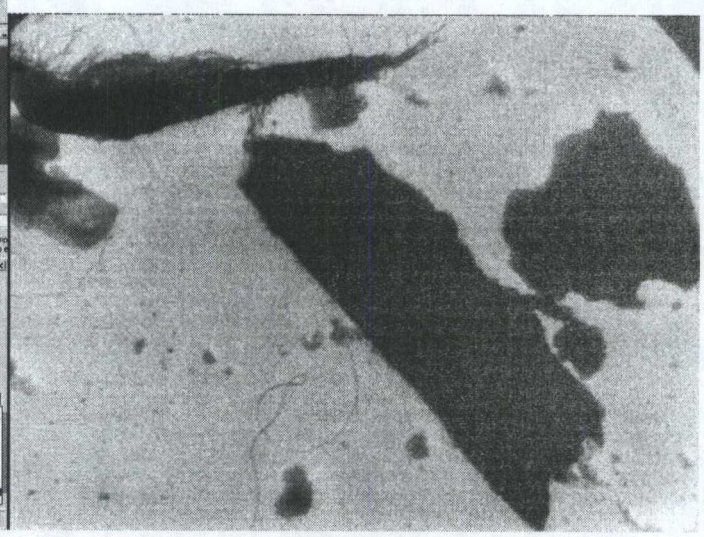
Sample # 041188-40-15831

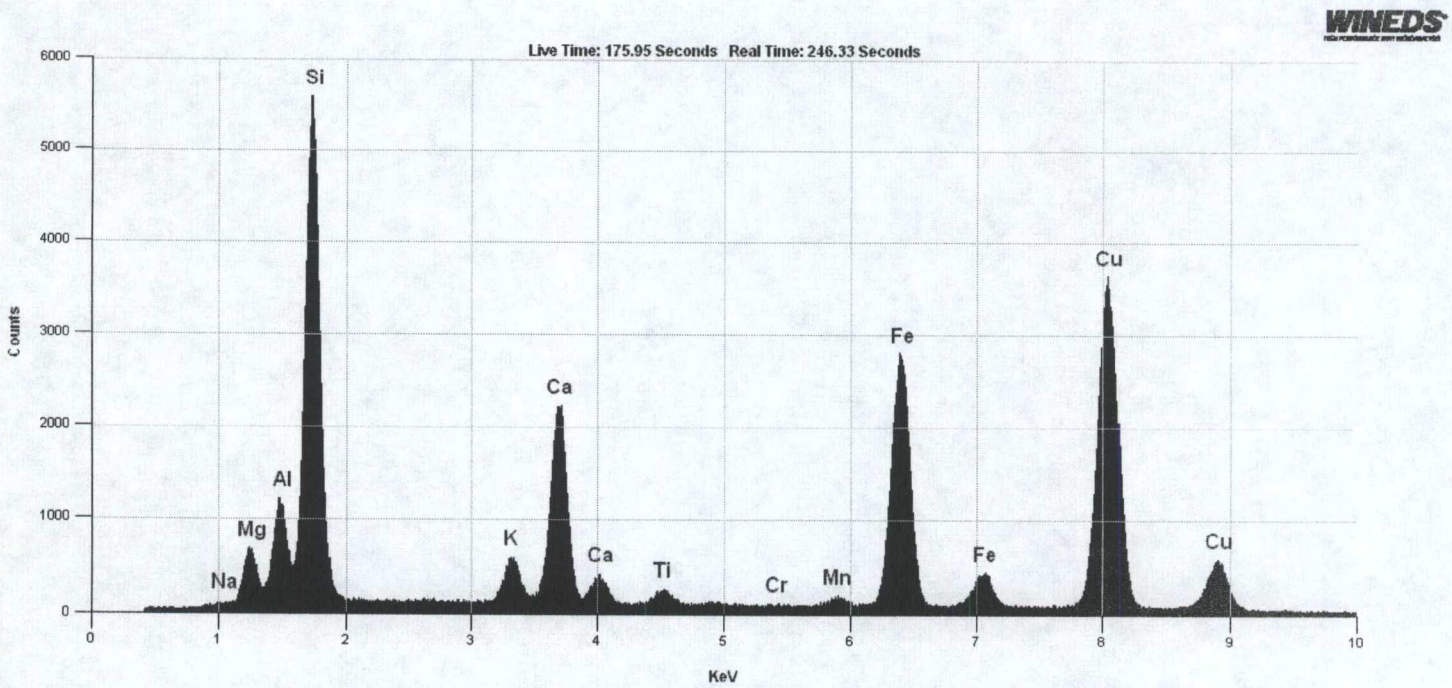
Values		Satisfied Conditions
(Ca,Na)@B	1.62	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.62	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.23	Si > 7.5
Mg/(Mg+Fe2)	0.94	(Mg/(Mg+Fe2))>= 0.9
Si	7.64	

Mineral Analysis Program (Version 5.0)

FERRO-EDENITE
[1 1 1]
041188-40, Neg#J1482







Quantitative Analysis Results - Standardless Analysis :
Spectrum1 041188-40 SP 15862 Thu, Mar 03 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 4.65
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	3.65	MgO	6.29	0.24	6.29
Al	1.67	Al2O3	3.64	0.11	3.64
Si	18.93	SiO2	48.56	0.57	48.56
K	1.43	K2O	2.87	0.15	2.87
Ca	5.06	CaO	12.11	0.26	12.11
Fe	7.78	Fe2O3	26.53	0.54	26.53
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	48.56	Si+4	7.4460	7.4460							
Al2O3	3.64	Al+3	0.6578	0.5540	0.1038						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	26.53	Fe+3	0.0306			0.0306	0.0000				
MgO	6.29	Mg+2	1.4379			1.4379	0.0000				
MnO	0	Fe+2	3.3676			3.3676	0.0000				
CaO	12.11	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.9893					1.9893	0.0000		
K2O	2.87	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.5614							0.5614	0.0000
Total	100		Excess	T site	0.1038	C site	0.0000	B site	0	A site	0
			Total	8		4.9398		1.9893		0.5614	0.0000
			%Fill	100		98.7963		99.467			

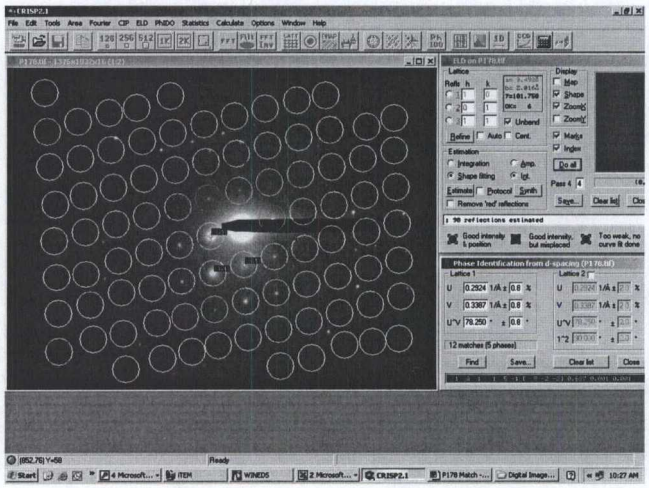
Prefix	Potassic
Name	ferro-edenite
Modifier	none
Group	Calcic Amphibole

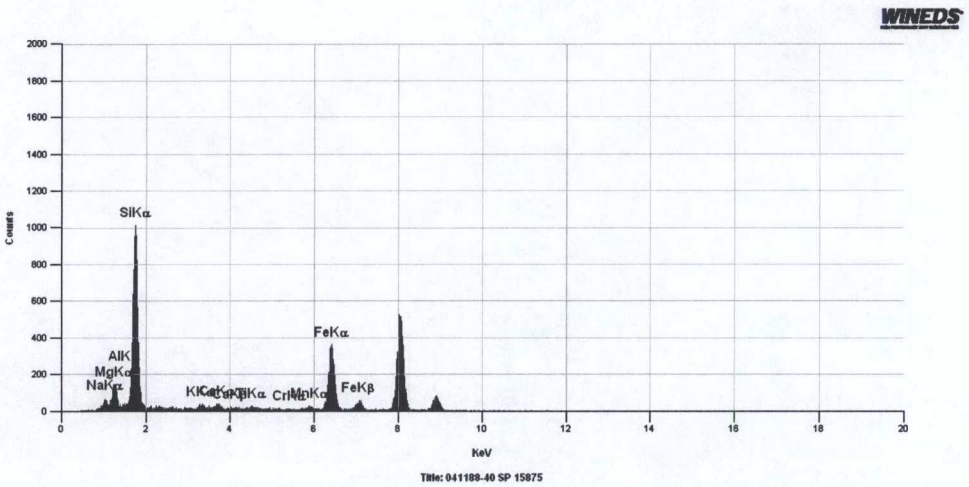
Sample # 041188-40-15862

Values		Satisfied Conditions
(Ca,Na)@B	1.99	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A >= 0.5
Ca@B	1.99	(Mg/(Mg+Fe2))< 0.5
(Na,K)@A	0.56	Si > 6.5
Mg/(Mg+Fe2)	0.30	
Si	7.45	

Mineral Analysis Program (Version 5.0)

Ferri-Winchite
Zone Axis [4 -1 -1]
Neg# P178 Job# 041188-40
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
Spectrum1 041188-40 SP 15875 Sun, Mar 06 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 7.81
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	3.14	Na2O	4.41	0.98	4.41
Mg	5.24	MgO	9.57	0.78	9.57
Si	22.59	SiO2	61.52	1.73	61.52
K	0.39	K2O	0.83	0.29	0.83
Ca	0.42	CaO	1.07	0.29	1.07
Fe	6.25	Fe2O3	22.60	1.40	22.60
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	61.52	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	0.0000						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	22.6	Fe+3	1.1936			1.1936	0.0000				
MgO	9.57	Mg+2	2.1219			2.1219	0.0000				
MnO	0	Fe+2	1.4176			1.4176	0.0000				
CaO	1.07	Mn+2	0.0000			0.0000	0.0000				
Na2O	4.41	Ca+2	0.2585					0.2585	0.0000		
K2O	0.83	Na+	1.3234					1.3234	0.0000	0.0000	0.0000
		K+	0.2062							0.2062	0.0000
Total	100		Excess	T site	0.0000	C site	0.0000	B site	0	A site	0
			Total	8		4.7331		1.5819		0.2062	0.0000
			%Fill	100		94.662		79.0974			

Prefix	Ferri
Name	winchite
Modifier	none
Group	Sodic-Calcic Amphibole

Sample # 041188-40-15875

Values		Satisfied Conditions
(Ca,Na)@B	1.58	(Ca,Na)@B >= 1 and 0.5 <= Na@B < 1.5
Na@B	1.32	(Na,K)@A < 0.5
Na,K)@A	0.21	(Mg/(Mg+Fe2))>= 0.5
Mg/(Mg+Fe2)	0.60	Si > 7.5
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S43 A1
Client Sample No. NFB-L2-4CH-100504
Description
Analysis Date 3/2/2005
Analyst JH

Volume (L) 312.54
No. of Grid Openings 87
Filter Area (mm2) 193
Area Analyzed (mm2) 1.26
Analytical Sens. (struc/cc) 0.00196
Dectection Limit. (struc/cc) 0.00586

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	80.9	0.200	0.159 - 0.238 (Poisson)	102
Total Asbestos Structures	80.9	0.200	0.159 - 0.238 (Poisson)	102
Asbestos Structures > 5um	30.1	0.0745	0.0527 - 0.102 (Poisson)	38
Asbestos Fibers and Bundles > 5um	25.4	0.0627	0.0429 - 0.0885 (Poisson)	32
PCM Equivalent Fibers-US	23.0	0.0568	0.0381 - 0.0816	29
PCM Equivalent Structures-ISO	14.3	0.0353	0.0209 - 0.0557	18
PROTOCOL ASB STRUCS 5-10	3.2	0.00784	0.00214 - 0.0201	4
PROTOCOL ASB STRUCS >10	0.0	<0.00586	0.00 - 0.00586	0
PROTOCOL ASB STRUCS TOTAL	3.2	0.00784	0.00214 - 0.0201	4
PROTOCOL CHRYS STRUCS 5-10	1.6	0.00392	0.00 - 0.0123	2
PROTOCOL CHRYS STRUCS >10	0.0	<0.00586	0.00 - 0.00586	0
PROTOCOL CHRYS STRUCS TOTAL	1.6	0.00392	0.00 - 0.0123	2
PROTOCOL AMPH STRUCS 5-10	1.6	0.00392	0.00 - 0.0123	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00586	0.00 - 0.00586	0
PROTOCOL AMPH STRUCS TOTAL	1.6	0.00392	0.00 - 0.0123	2
AHERA-like Total Structures 3:1	80.9	0.200	0.159 - 0.238 (Poisson)	102
AHERA-like Asb Strucs >5 and 3:1	30.1	0.0745	0.0527 - 0.102 (Poisson)	38
AHERA-like Asb Strucs 5 - 10 and 3:1	22.2	0.0549	0.0365 - 0.0793	28
AHERA-like Asb Strucs >10 and 3:1	7.9	0.0196	0.00940 - 0.0360	10
Total Other Amphibole Strucs 3:1	0.0	<0.00586	0.00 - 0.00586	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00586	0.00 - 0.00586	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00586	0.00 - 0.00586	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00586	0.00 - 0.00586	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	AQ	1		MD1-1	10	7	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	B44	AQ		1	MF	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	1	B44	CD	2		MD1-0	4	0.7	5.7			Chrysotile	TAS_AHRA
A	1	B44	CD		2	MF	2	0.1	20			Chrysotile	
A	2	B24		NSD									
A	3	B4	CD	3		MD1-0	1.8	0.3	6.0			Chrysotile	TAS_AHRA
A	3	B4	CD		3	MF	0.8	0.08	10			Chrysotile	
A	4	C14	AZQ	4	4	F	2.7	0.6	4.5	1460	1110	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 1 0] - KM	TAS_AHRA
A	4	C14	CDQ	5		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
A	4	C14	CDQ		5	MF	2.5	0.1	25	1461	1111	Mg, Al, Si Chrysotile Verified - KM	
A	5	C34		NSD									
A	6	C43		NSD									
A	7	C23		NSD									
A	8	C3	CD	6	6	F	1	0.1	10			Chrysotile	TAS_AHRA
A	9	B13	AQ	7	7	F	1.7	0.35	4.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	B33		NSD									
A	11	B42		NSD									
A	12	B22		NSD									
A	13	B2	AQ	8		MD1-1	10	10	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	B2	AQ		8	MF	6.8	0.7	9.7			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	13	B2	CD	9		MD1-0	1.5	0.25	6.0			Chrysotile	TAS_AHRA
A	13	B2	CD		9	MF	1.2	0.1	12			Chrysotile	
A	13	B2	CD	10	10	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	14	C12		NSD									
A	15	C32	AQ	11		MD1-0	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	15	C32	AQ		11	MF	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	
A	16	C41	AQ	12	12	F	4	0.9	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	16	C41	CD	13	13	F	1	0.1	10			Chrysotile	TAS_AHRA
A	17	C21		NSD									
A	18	C1	CD	14		MD1-0	2.8	2	1.4			Chrysotile	TAS_AHRA
A	18	C1	CD		14	MF	1.22	0.1	12			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	19	B11	CD	15		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
A	19	B11	CD		15	MF	2	0.1	20			Chrysotile	
A	19	B11	AQ	16		MD1-1	12	5	2.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	19	B11	AQ		16	MF	11	1.2	9.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	19	B11	AQ	17	17	F	5.1	1.2	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	20	B31	CD	18	18	F	6	0.1	60			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	21	A40		NSD									
A	22	A20	AQ	19	19	F	5	0.6	8.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	23	A10		NSD									
A	24	A41	AQ	20	20	F	12	2.5	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	24	A41	AQ	21	21	F	9	1.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	24	A41	AQ	22	22	F	6	1.2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	25	A21	CD	23		MD1-0	8	6	1.3			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	25	A21	CD		23	MF	2.5	0.12	21			Chrysotile	
A	26	A1		NSD									
A	27	D11	AQ	24		MD1-1	15	15	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	27	D11	AQ		24	MF	5.2	0.65	8.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	28	D31	AQ	25	25	B	8.5	0.7	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	D2	AQ	26		MD1-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	D2	AQ		26	MF	5.4	0.45	12			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
A	30	D12	CD	27	27	B	1.5	0.2	7.5			Chrysotile	TAS_AHRA
A	30	D12	AQ	28	28	F	4.5	0.7	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	B34		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	B14		NSD									
B	33	C4	AQ	29	29	F	0.9	0.25	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	C4	AQ	30		MD1-1	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	C4	AQ		30	MF	5.2	0.55	9.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	34	C24	AQ	31	31	F						Actinolite	TAS_AHRA
B	35	C44	AQ	32		MD1-1	15	7	2.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	35	C44	AQ		32	MF	5.5	0.8	6.9			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	35	C44	AQ	33	33	F	7.5	2.5	3.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	36	C33	AQ	34		MD1-1	9	8	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	36	C33	AQ		34	MF	5.8	0.68	8.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	37	C13	CD	35	35	F	0.9	0.12	7.5			Chrysotile	TAS_AHRA
B	38	B3	CD	36		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
B	38	B3	CD		36	MF	0.8	0.08	10			Chrysotile	
B	38	B3	AQ	37	37	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	39	B23		NSD									
B	40	B43	AQ	38		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
B	40	B43	AQ		38	MF	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	
B	40	B43	CD	39	39	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	41	B32	AQ	40	40	F	2.8	0.35	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	42	B12		NSD									
B	43	C2		NSD									
B	44	C22	CD	41	41	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	44	C22	AQ	42		MD1-0	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	C22	AQ		42	MF	4	1	4.0			Mg, Al, Si, Ca, Fe Actinolite	
B	45	C42	CD	43	43	F	1.1	0.11	10			Chrysotile	TAS_AHRA
B	46	C31	AQ	44		MD1-1	25	10	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	46	C31	AQ		44	MF	12	2	6.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	47	C11	AQ	45	45	F	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	47	C11	AQ	46	46	F	5.5	0.6	9.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	47	C11	AQ	47		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
B	47	C11	AQ		47	MF	4	0.38	11			Mg, Al, Si, Ca, Fe Actinolite	
B	48	B1	AQ	48	48	F	1.2	0.22	5.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	48	B1	CD	49		MD1-0	5.2	1.8	2.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	B1	CD		49	MF	4	0.12	33			Chrysotile	
B	48	B1	AQ	50	50	F	1.8	0.5	3.6			Actinolite	TAS_AHRA
B	49	B21	AQ	51	51	F	2	0.45	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	50	B41	AQ	52	52	F	9	1	9.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A41	CD	53	53	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	51	A41	AQ	54	54	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A41	AQ	55	55	F	8	2	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	A41	CD	56	56	F	2.5	0.1	25			Chrysotile	TAS_AHRA
B	52	A21	CD	57	57	F	2	0.1	20			Chrysotile	TAS_AHRA
B	53	A1	AQ	58	58	F	1.8	0.52	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	D11	CD	59	59	F	5.5	0.1	55			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	D31		NSD									
B	56	A42	AQ	60	60	F	15	4	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	56	A42	CD	61	61	F	2.5	0.12	21			Chrysotile	TAS_AHRA
B	57	A22		NSD									
B	58	A2	AQ	62	62	F	15	1.5	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	59	D12	AQ	63	63	F	2.7	0.4	6.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	59	D12	AQ	64	64	F	7	1.8	3.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	60	D32	AQ	65	65	F	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	A34	AQ	66	66	F	2	0.35	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	A34	AQ	67		MD1-0	2	2	1.0			Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	61	A34	AQ		67	MF	1.5	0.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	
C	62	A14		NSD									
C	63	D4	AQ	68	68	F	1.8	0.35	5.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	63	D4	CD	69	69	F	2	0.12	17			Chrysotile	TAS_AHRA
C	63	D4	AQ	70	70	F	7	0.7	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	64	D24	AQ	71	71	F	4.5	0.7	6.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	65	D44	CD	72	72	F	3	0.11	27			Chrysotile	TAS_AHRA
C	66	D33		NSD									
C	67	D13		NSD									
C	68	A3	AQ	73		MD1-0	8	5	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	68	A3	AQ		73	MF	1.7	0.5	3.4			Mg, Al, Si, Ca, Fe Actinolite	
C	68	A3	AQ	74		MD1-0	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	68	A3	AQ		74	MF	4	0.35	11			Mg, Al, Si, Ca, Fe Actinolite	
C	69	A23	AQ	75		MD1-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	69	A23	AQ		75	MF	5.2	1.2	4.3			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	69	A23	AQ	76	76	F	2	0.38	5.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	70	A43	AQ	77	77	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	71	A22	AQ	78	78	F	7	0.6	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	A12	CD	79	79	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
C	72	A12	AQ	80	80	F	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	73	D2	CD	81	81	F	1	0.1	10			Chrysotile	TAS_AHRA
C	74	D22		NSD									
C	75	D42	AQ	82		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	75	D42	AQ		82	MF	6.8	0.45	15			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
C	76	D31	CD	83	83	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	76	D31	AQ	84	84	F	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	77	D11		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-4CH-100504 *Lab/Cor Sample No.:* B4771 S43 A1

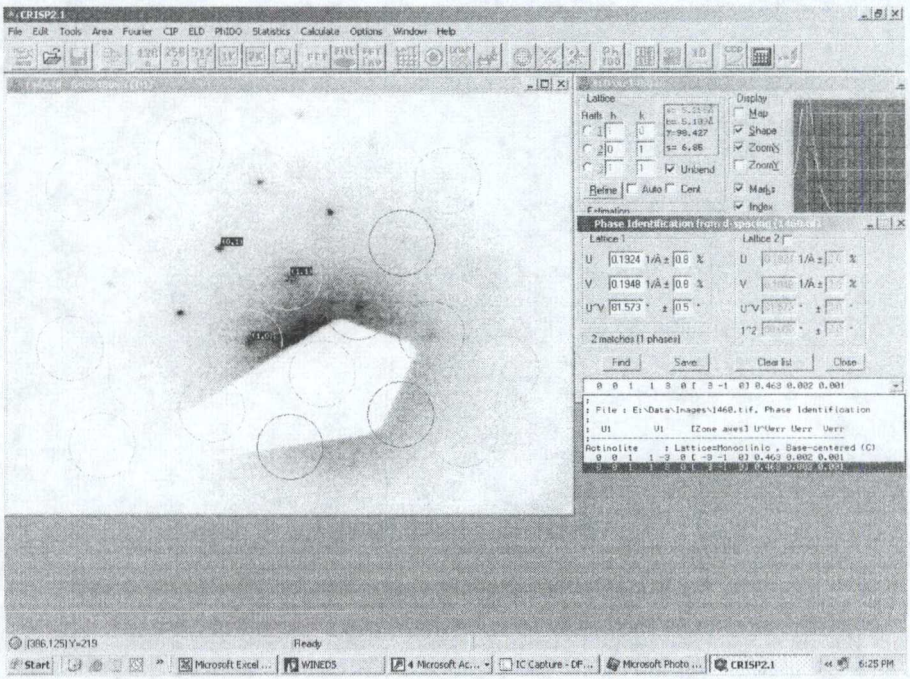
Descripiton:

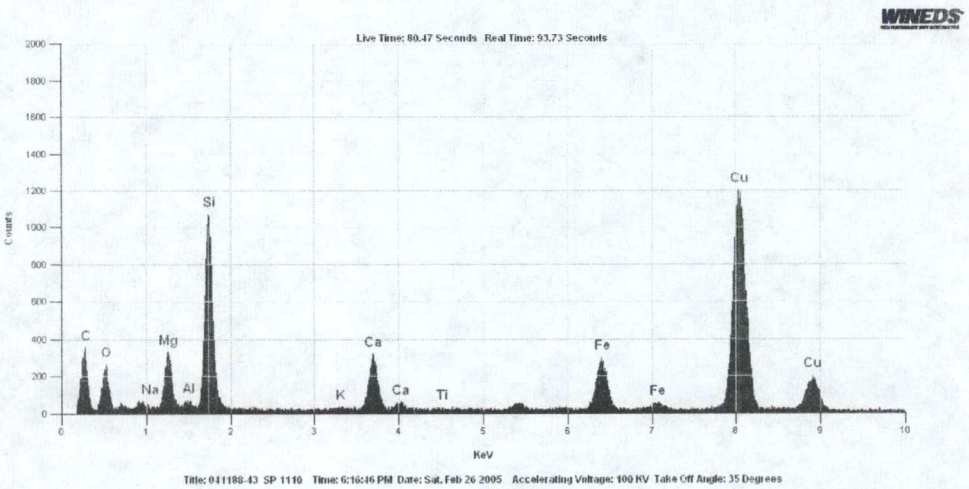
Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	78	A1	AQ	85	85	F	4.5	0.6	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	78	A1	CD	86	86	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
C	79	A21	CD	87		MD1-0	2.5	1	2.5			Chrysotile	TAS_AHRA
C	79	A21	CD		87	MF	0.6	0.08	7.5			Chrysotile	
C	79	A21	AQ	88	88	F	7	0.6	12			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	79	A21	AQ	89	89	F	4.5	0.65	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	80	A41	AQ	90	90	F	3.2	0.45	7.1			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	81	B31	AQ	91	91	F	2.5	0.38	6.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	82	B11	AQ	92	92	F	12	3	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	82	B11	CD	93	93	F	1.5	0.08	19			Chrysotile	TAS_AHRA
C	83	C1	AQ	94	94	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	84	C21	AQ	95	95	F	2.5	0.38	6.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	84	C21	CD	96	96	F	1.8	0.1	18			Chrysotile	TAS_AHRA
C	85	C41	CD	97	97	F	3.5	0.1	35			Chrysotile	TAS_AHRA
C	85	C41	AQ	98		MD1-0	4	2.5	1.6			Actinolite	TAS_AHRA
C	85	C41	AQ		98	MF	4	0.4	10			Mg, Al, Si, Ca, Fe Actinolite	
C	86	C12	AQ	99	99	F	8	1.5	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	86	C12	AQ	100	100	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	87	B2	AQ	101	101	F	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	87	B2	AQ	102	102	F	3.8	0.7	5.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

ACTINOLITE - Zone Axis [3 1 0]

041188-43 Neg# J1460

Gatan Image 2/20/05





Quantitative Analysis Results - Standardless Analysis :

041188-43 SP 1110 Sat, Feb 26 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 99.66

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.26	Na2O	0.36	0.27	0.36
Mg	6.46	MgO	11.52	0.47	11.52
Al	0.23	Al2O3	0.52	0.17	0.52
Si	20.41	SiO2	54.22	1.23	54.22
Ca	5.11	CaO	12.68	0.66	12.68
Fe	5.86	Fe2O3	20.70	1.32	20.70
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	54.22	Si+4	7.8949	7.8949							
Al2O3	0.52	Al+3	0.0892	0.0892	0.0000						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	20.7	Fe+3	0.0680			0.0680	0.0000				
MgO	11.52	Mg+2	2.5007			2.5007	0.0000				
MnO	0	Fe+2	2.4447			2.4312	0.0135				
CaO	12.68	Mn+2	0.0000			0.0000	0.0000				
Na2O	0.36	Ca+2	1.9780					1.9780	0.0000		
K2O	0	Na+	0.1016					0.0085	0.0931	0.0931	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0000	C site	0.0135	B site	0.0931329	A site	0
			Total	7.9841		5.0000		1.9865		0.0931	0.0000
			%Fill	99.802		100		99.3251			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-43-1110

Values		Satisfied Conditions
(Ca,Na)@B	1.99	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.01	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.98	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.09	Si > 7.5
Mg/(Mg+Fe2)	0.51	(Mg/(Mg+Fe2))< 0.9
Si	7.89	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S44 A1
Client Sample No. NFB-L2-5CH-100504
Description
Analysis Date 3/3/2005
Analyst KM

Volume (L) 307.46
No. of Grid Openings 168
Filter Area (mm2) 193
Area Analyzed (mm2) 2.43
Analytical Sens. (struc/cc) 0.00103
Dectection Limit. (struc/cc) 0.00308

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	41.5	0.104	0.0839 - 0.125 (Poisson)	101
Total Asbestos Structures	41.9	0.105	0.0839 - 0.125 (Poisson)	102
Asbestos Structures > 5um	22.2	0.0557	0.0418 - 0.0727 (Poisson)	54
Asbestos Fibers and Bundles > 5um	19.3	0.0485	0.0356 - 0.0645 (Poisson)	47
PCM Equivalent Fibers-US	18.1	0.0454	0.0330 - 0.0609 (Poisson)	44
PCM Equivalent Structures-ISO	15.2	0.0382	0.0269 - 0.0526 (Poisson)	37
PROTOCOL ASB STRUCS 5-10	0.8	0.00206	0.00 - 0.00650	2
PROTOCOL ASB STRUCS >10	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL ASB STRUCS TOTAL	0.8	0.00206	0.00 - 0.00650	2
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL AMPH STRUCS 5-10	0.8	0.00206	0.00 - 0.00650	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00308	0.00 - 0.00308	0
PROTOCOL AMPH STRUCS TOTAL	0.8	0.00206	0.00 - 0.00650	2
AHERA-like Total Structures 3:1	41.1	0.103	0.0839 - 0.125 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	21.8	0.0547	0.0409 - 0.0715 (Poisson)	53
AHERA-like Asb Strucs 5 - 10 and 3:1	14.0	0.0351	0.0243 - 0.0490 (Poisson)	34
AHERA-like Asb Strucs >10 and 3:1	7.8	0.0196	0.0118 - 0.0306	19
Total Other Amphibole Strucs 3:1	0.4	0.00103	0.00 - 0.00489	1
Other Amphibole Strucs >5 and 3:1	0.4	0.00103	0.00 - 0.00489	1
Other Amphibole Strucs 5 - 10 and 3:1	0.4	0.00103	0.00 - 0.00489	1
Other Amphibole Strucs >10 and 3:1	0.0	<0.00308	0.00 - 0.00308	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B24		NSD									
A	2	B4	AQ	1	1	F	4.5	1.2	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	B4	AQ	2	2	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	C14		NSD									
A	4	C34	AQ	3		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
A	4	C34	AQ		3	MF	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	
A	5	C44		NSD									
A	6	C42		NSD									
A	7	C22	AQ	4	4	F	11	2.5	4.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	8	C2	AQ	5	5	F	4.8	1.1	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	B12		NSD									
A	10	B2	AQ	6	6	F	14	1.6	8.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	11	B32		NSD									
A	12	B42		NSD									
A	13	B40		NSD									
A	14	B20		NSD									
A	15	B10	AQ	7	7	F	8	0.6	13			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	16	C10	AQ	8	8	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	17	C30		NSD									
A	18	C40		NSD									
A	19	D41	CDQ	9	9	F	1.1	0.07	16	1471	1126	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	20	D21		NSD									
A	21	D1		NSD									
A	22	A11	AQ	10	10	F	7.2	1.5	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	23	A31	AZQ	11	11	F	2.5	0.25	10	1472	1127	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 1] - JH	TAS_AHRA
A	24	A41		NSD									
A	25	A22		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	26	A2	AQ	12	12	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	26	A2	CMQ	13	13	F	2.3	0.06	38			Mg, Si Chrysotile	TAS_AHRA
A	27	D3	CDQ	14	14	F	4	0.06	67			Mg, Si Chrysotile	TAS_AHRA
A	28	D23	AQ	15	15	F	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	28	D23	AQ	16	16	F	14	4	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	29	D43	CD	17	17	F	2.5	0.05	50			Chrysotile	TAS_AHRA
A	30	D4		NSD									
B	31	A44		NSD									
B	32	A24	AQ	18	18	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A4		NSD									
B	34	D14		NSD									
B	35	D34	AQ	19		MD1-1	14	8	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	35	D34	AQ		19	MF	12	3	4.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	36	D43	AQ	20		MD1-1	20	10	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	D43	AQ		20	MF	9	1.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	37	D23	AQ	21	21	F	2.5	0.7	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	38	D3	AQ	22		MD1-1	6	2	3.0			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	D3	AQ		22	MF	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	39	A13		NSD									
B	40	A33	OZQ	23		MD1-0	8	6	1.3			Edenite	TOS_AHRA, OS>5_AHRA, OS5-10_AHRA
B	40	A33	OZQ		23	MF	3	0.4	7.5	1473	1128	Na, Mg, Al, Si, K, Ca, Fe Edenite Zone Axis [3 1 6] - KM	
B	40	A33	AQ	24		MD1-1	12	6	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	40	A33	AQ		24	MF	7.5	1.2	6.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	41	A43		NSD									
B	42	A23		NSD									
B	43	A3		NSD									
B	44	D13		NSD									
B	45	D33		NSD									

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	46	A32	AZQ	25		MD1-0	7	5	1.4			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	A32	AZQ		25	MF	4	0.38	11	1480	1133	Mg, Al, Si, Ca, Fe Tremolite Zone Axis [5 1 4] - KM	
B	47	A22		NSD									
B	48	A2		NSD									
B	49	B41		NSD									
B	50	B21	AQ	26	26	F	4.8	0.6	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	51	C1	AQ	27	27	F	7	1	7.0			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	51	C1	CD	28	28	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	52	C21		NSD									
B	53	C41	AQ	29	29	F	13	1.2	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	53	C41	AQ	30	30	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	54	C42		NSD									
B	55	C22	AQ	31		MD1-0	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	C22	AQ		31	MF	3.5	0.5	7.0			Mg, Al, Si, Ca, Fe Actinolite	
B	56	C2	CD	32		MD1-0	4	0.6	6.7			Chrysotile	TAS_AHRA
B	56	C2	CD		32	MF	3.5	0.1	35			Chrysotile	
B	56	C2	AQ	33	33	F	12.5	1.2	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	57	B12		NSD									
B	58	B32	AQ	34	34	F	4	0.35	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	59	B13	AQ	35		MD1-1	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	B13	AQ		35	MF	8.55	1.8	4.8			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	59	B13	CD	36	36	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	60	C3	AQ	37	37	F	4.2	0.8	5.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	61	A44		NSD									
C	62	A24	AQ	38	38	F	2.5	0.4	6.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	63	A14		NSD									
C	64	D4	CD	39	39	F	1	0.08	12			Chrysotile	TAS_AHRA
C	65	D24		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	66	D44	AQ	40	40	F	3	0.25	12			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	66	D44	AQ	41	41	F	9	2	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	66	D44	AQ	42	42	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	67	D42		NSD									
C	68	D22		NSD									
C	69	D2		NSD									
C	70	A12	AQ	43	43	F	18	4	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	70	A12	AQ	44	44	F	8	1.1	7.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	71	A32	AQ	45	45	F	2.2	0.25	8.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	72	A42		NSD									
C	73	A40		NSD									
C	74	A20	AQ	46	46	F	5.2	1.4	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	74	A20	AQ	47	47	F	11	0.6	18			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	74	A20	AQ	48	48	F	6.5	0.45	14			Mg, Si, Ca, Fe Tremolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	75	A10		NSD									
C	76	D10		NSD									
C	77	D30		NSD									
C	78	D40		NSD									
C	79	C41	AQ	49	49	F	13	2	6.5			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	80	C21		NSD									
C	81	C1		NSD									
C	82	B11	AQ	50		MD1-0	5.5	5	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	82	B11	AQ		50	MF	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	

Lab/Cor, Inc.

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TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	83	B31		NSD									
C	84	B41	CD	51	51	F	1.4	0.08	18			Mg, Si Chrysotile	TAS_AHRA
C	85	B43		NSD									
C	86	B23		51	51	F	15	4	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5
C	87	B3	AQ	52	52	F	2.4	0.3	8.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	C13	AQ	53	53	F	2.2	0.25	8.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	88	C13	AQ	54	54	F	9	1.2	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	88	C13	AQ	55	55	F	8.6	2.1	4.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	89	C33		NSD									
C	90	C43		NSD									
D	91	B24	AQ	56	56	F	6	1	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	91	B24	AQ	57		MD1-0	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	91	B24	AQ		57	MF	2	0.4	5.0			Mg, Al, Si, Ca, Fe Actinolite	
D	92	B4		NSD									
D	93	C14		NSD									
D	94	C34		NSD									
D	95	C44	AQ	58	58	F	9	1.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	96	C42	AQ	59	59	F	7.5	0.5	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	97	C22	AQ	60	60	F	16	3	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	98	C2	AQ	61	61	F	5.5	1.7	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	99	B12		NSD									
D	100	B32		NSD									
D	101	B42		NSD									
D	102	B40		NSD									

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A Professional Service Corporation in the Northwest

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	103	B20		NSD									
D	104	B10		NSD									
D	105	C10	AQ	62	62	F	13	1.5	8.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	106	C30	AQ	63	63	F	9	1.3	6.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	107	C40		NSD									
D	108	D41		NSD									
D	109	D21		NSD									
D	110	D1	AQ	64	64	F	7.5	0.7	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	111	A11		NSD									
D	112	A31		NSD									
D	113	A41		NSD									
D	114	A43	AQ	65	65	F	8	1.5	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	115	A23	AQ	66	66	F	5.1	1	5.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	116	A3		NSD									
D	117	D13		NSD									
D	118	D33		NSD									
D	119	D43	AQ	67	67	F	12	3	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	119	D43	AQ	68	68	F	9.5	2.7	3.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	119	D43	AQ	69	69	F	4	0.6	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
D	120	D44		NSD									
E	121	A34	AQ	70	70	F	4.7	0.7	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	122	A14	AQ	71		MD1-0	4	3	1:3			Actinolite	TAS_AHRA
E	122	A14	AQ		71	MF	1.2	0.22	5.5			Mg, Al, Si, Ca, Fe Actinolite	
E	123	D4	AQ	72	72	F	11	1.2	9.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

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A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	124	D24	AQ	73	73	F	7.5	1.2	6.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	125	D44		NSD									
E	126	D33	AQ	74	74	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	127	D13	AQ	75	75	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	127	D13	CD	76		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
E	127	D13	CD		76	MF	1.12	0.1	11			Chrysotile	
E	128	A3		NSD									
E	129	A23		NSD									
E	130	A43		NSD									
E	131	A32		NSD									
E	132	A12	AQ	77	77	F	12.5	0.7	18			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	133	D2		NSD									
E	134	D42	CD	78		MD1-0	4.5	2	2.2			Chrysotile	TAS_AHRA
E	134	D42	CD		78	MF	1.8	0.1	18			Chrysotile	
E	135	D22		NSD									
E	136	D31	AQ	79	79	F	2.2	0.6	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	137	D11		NSD									
E	138	A1		NSD									
E	139	A21		NSD									
E	140	A41	AQ	80		MD1-0	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	140	A41	AQ		80	MF	4.2	0.45	9.3			Mg, Al, Si, Ca, Fe Actinolite	
E	141	B41		NSD									
E	142	B21		NSD									
E	143	B1	AQ	81	81	F	3.5	0.5	7.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	144	C21	AQ	82	82	B	1.8	1.8	1.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
E	144	C21	AQ	83		MD1-1	15	8	1.9			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	144	C21	AQ		83	MF	15	3	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
E	145	C31		NSD									
E	146	C32		NSD									
E	147	C22		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	148	C2	AQ	84	84	F	5.2	1	5.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	149	B12		NSD									
E	150	B42	CD	85	85	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
F	151	A14	AQ	86	86	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	151	A14	AQ	87		MD1-0	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	151	A14	AQ		87	MF	3	0.45	6.7			Actinolite	
F	152	A4	CD	88		MD1-0	3	3	1.0			Chrysotile	TAS_AHRA
F	152	A4	CD		88	MF	3	0.1	30			Chrysotile	
F	152	A4	AQ	89		MD2-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	152	A4	AQ		89	MF	7	2	3.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	152	A4	AQ		90	MF	4.7	1.2	3.9			Mg, Al, Si, Ca, Fe Actinolite	
F	153	D14		NSD									
F	154	D34		NSD									
F	155	D33		NSD									
F	156	D23	CD	90		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
F	156	D23	CD		91	MF	1	0.1	10			Chrysotile	
F	157	D3		NSD									
F	158	A13		NSD									
F	159	A33	AQ	91	92	F	6	0.7	8.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	159	A33	CD	92	93	F	4.2	0.11	38			Chrysotile	TAS_AHRA
F	160	A42	AQ	93		MD1-1	6	2.5	2.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	160	A42	AQ		94	MF	6	0.7	8.6			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
F	161	A22	AQ	94	95	F	4.5	1.2	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	161	A22	AQ	95	96	F	8	1.2	6.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
F	162	A2		NSD									
F	163	D32		NSD									
F	164	D42	CD	96		MD1-0	4.5	3	1.5			Chrysotile	TAS_AHRA
F	164	D42	CD		97	MF	0.6	0.08	7.5			Chrysotile	
F	165	D31	CD	97	98	F	1.1	0.1	11			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

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Report # 041188R15

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Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

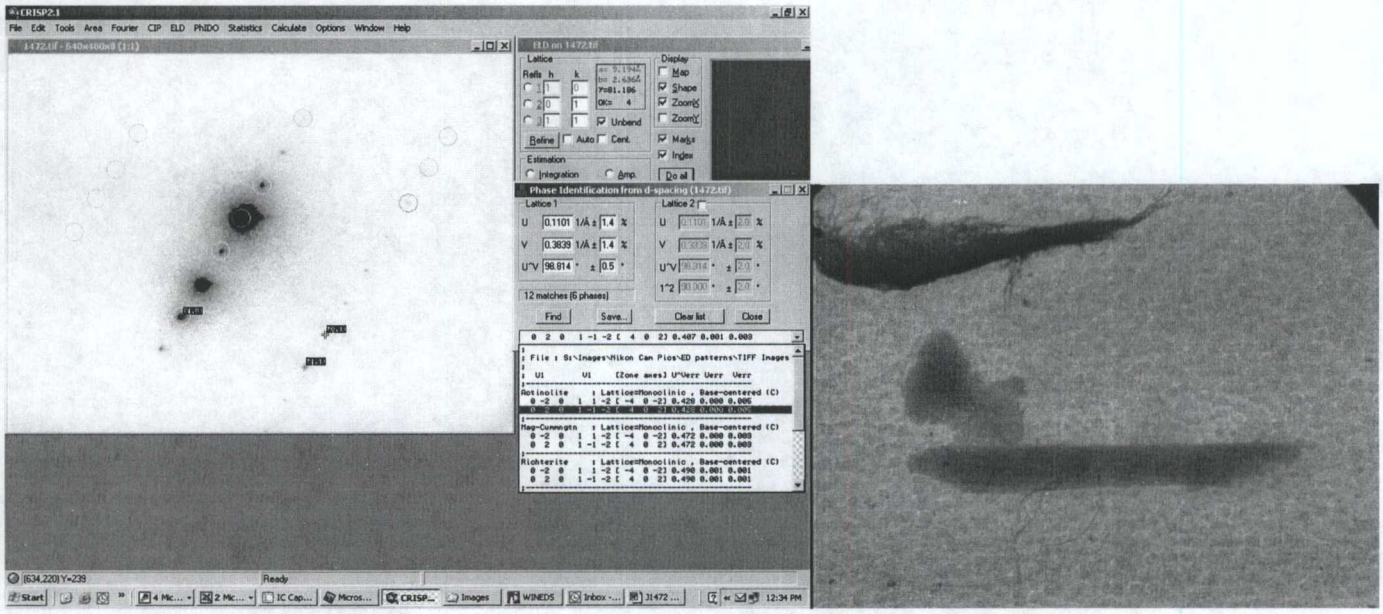
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

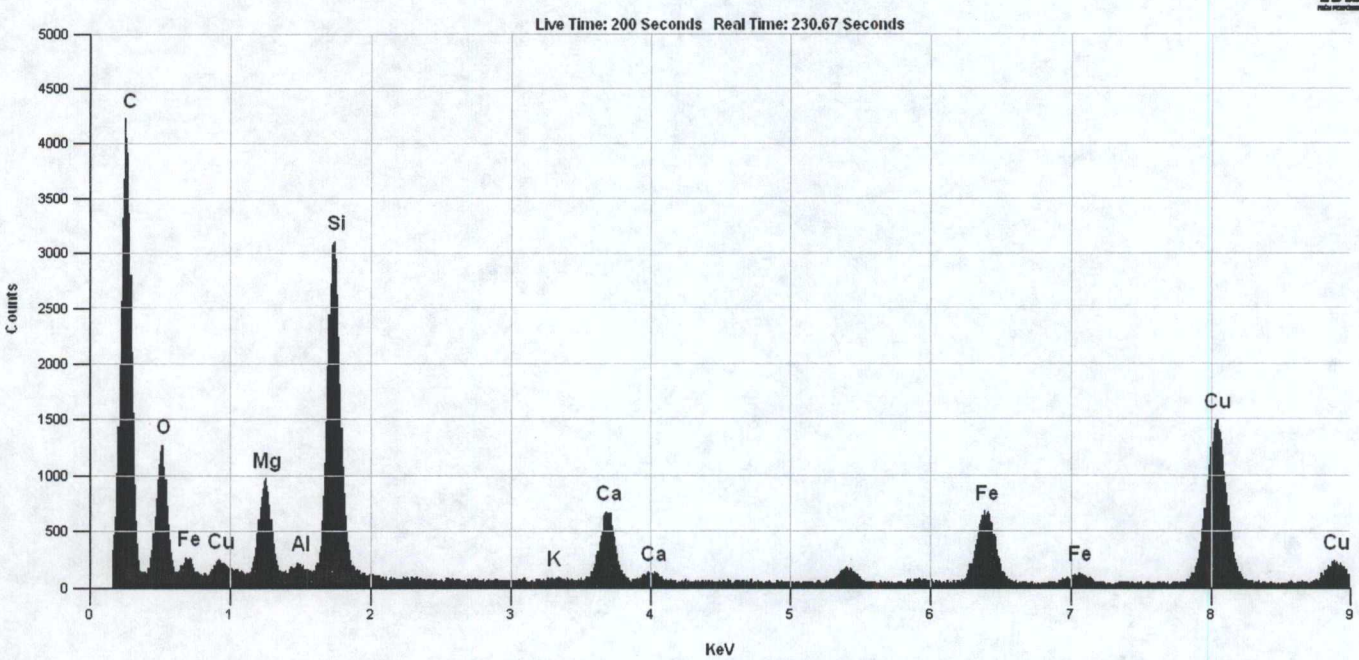
Sample No.: NFB-L2-5CH-100504 *Lab/Cor Sample No.:* B4771 S44 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
F	166	D11		NSD									
F	167	A1	AQ	98		MD1-0	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
F	167	A1	AQ		99	MF	4	0.35	11			Mg, Al, Si, Ca, Fe Actinolite	
F	167	A1	CD	99	100	F	1.5	0.1	15			Chrysotile	TAS_AHRA
F	168	A21	AQ	100	101	F	2.5	0.7	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
F	168	A21	AQ	101	102	F	6	1.2	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Actinolite
[2 0 1]
041188-44, Neg#J1472





Title: 041188-44-SP1127 Time: 12:00:55 PM Date: Fri, Mar 04 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-44-SP1127 Fri, Mar 04 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 489.72
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.25	MgO	11.38	0.35	11.38
Al	0.34	Al2O3	0.77	0.13	0.77
Si	22.05	SiO2	59.80	0.87	59.80
K	0.10	K2O	0.20	0.13	0.20
Ca	4.34	CaO	10.99	0.41	10.99
Fe	4.68	Fe2O3	16.85	0.69	16.85

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	59.8	Si+4	8.0000	8.0000							
Al2O3	0.77	Al+3	0.1654	0.0000	0.1654						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	16.85	Fe+3	0.0421			0.0421	0.0000				
MgO	11.38	Mg+2	2.4763			2.4763	0.0000				
MnO	0	Fe+2	2.0107			2.0107	0.0000				
CaO	10.99	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7209					1.7209	0.0000		
K2O	0.2	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0771							0.0771	0.0000
Total	99.99		Excess	T site	0.1654	C site	0.0000	B site	0	A site	0
			Total	8		4.6946		1.7209		0.0771	0.0000
			%Fill	100		93.8911		86.0436			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-44-1127

Values		Satisfied Conditions
(Ca,Na)@B	1.72	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.72	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.08	Si > 7.5
Mg/(Mg+Fe2)	0.55	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

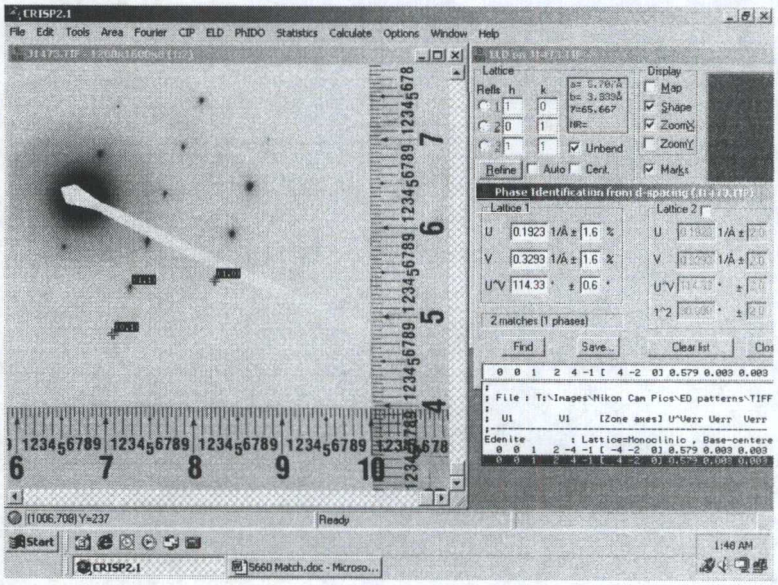
Mineral Analysis Program (Version 5.0)

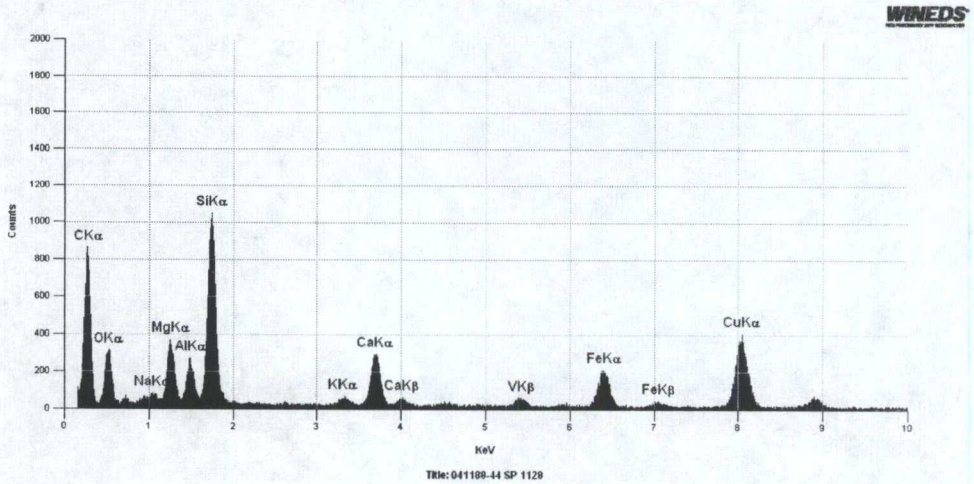
EDENITE

Zone Axis [2 1 0]

Neg# J1473 Job# 041188-44

JEOL 80cm Image





Quantitative Analysis Results - Standardless Analysis :

041188-44 SP 1128 Fri, Mar 04 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 193.50

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	1.29	Na2O	1.82	0.35	1.82
Mg	6.92	MgO	12.68	0.52	12.68
Al	2.08	Al2O3	4.83	0.31	4.83
Si	19.84	SiO2	54.19	1.28	54.19
K	0.46	K2O	0.98	0.24	0.98
Ca	5.00	CaO	12.75	0.66	12.75
Fe	3.51	Fe2O3	12.75	0.97	12.75
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	54.19	Si+4	7.6667	7.6667							
Al2O3	4.83	Al+3	0.8053	0.3333	**0.4720**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	12.75	Fe+3	0.0136			0.0136	0.0000				
MgO	12.68	Mg+2	2.6744			2.6744	**0.0000**				
MnO	0	Fe+2	1.4933			1.4933	**0.0000**				
CaO	12.75	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	1.82	Ca+2	1.9325					1.9325	0.0000		
K2O	0.98	Na+	0.4992					0.0675	**0.4317**	0.4317	0.0000
		K+	0.1769							0.1769	0.0000
Total	100		Excess	T site	**0.4720**	C site	**0.0000**	B site	**0.4317042**	A site	**0**
			Total	8		4.6533		2.0000		0.6086	0.0000
			%Fill	100		93.0662		100			

Prefix	none
Name	edenite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-44-1128

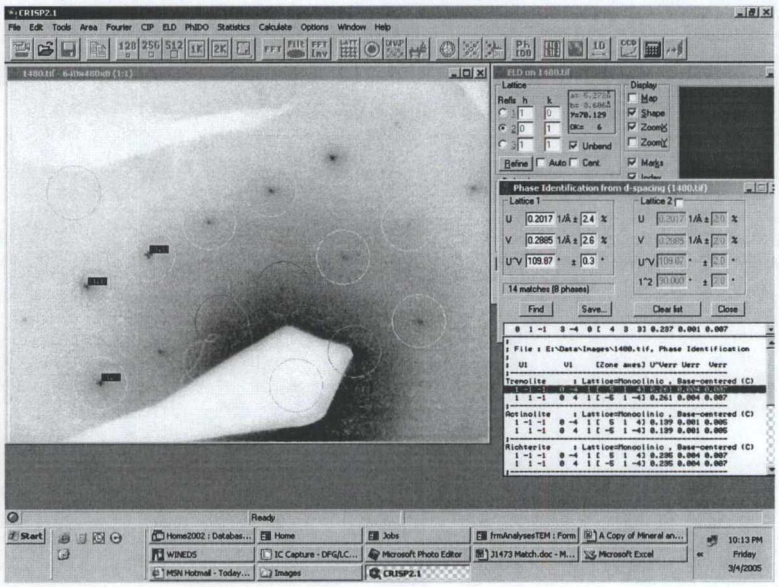
Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.07	Ca@B >= 1.5 and (Na,K)@A >= 0.5
Ca@B	1.93	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.61	Si > 6.5
Mg/(Mg+Fe2)	0.64	
Si	7.67	

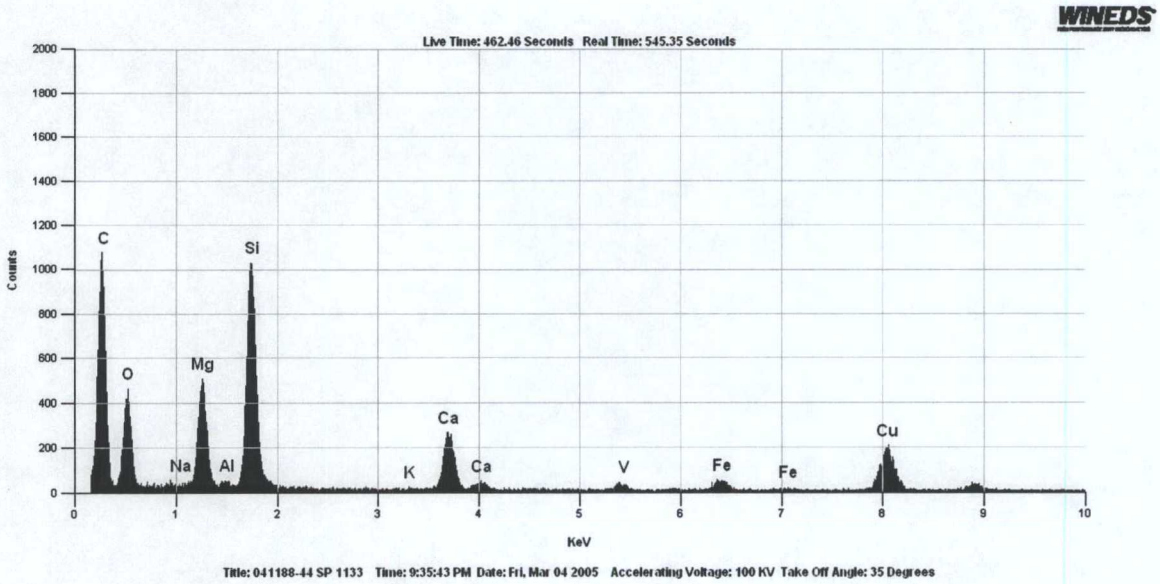
Mineral Analysis Program (Version 5.0)

TREMOLITE - Zone Axis [5 1 4]

041188-44 Neg# J1480

Gatan Image 3/4/05





Quantitative Analysis Results - Standardless Analysis :

041188-44 SP 1133 Fri, Mar 04 2005

EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 320.64

Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.86	MgO	20.72	0.67	20.72
Al	0.15	Al2O3	0.37	0.21	0.37
Si	21.81	SiO2	62.02	1.46	62.02
Ca	5.19	CaO	13.78	0.74	13.78
Fe	0.83	Fe2O3	3.12	0.61	3.12
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.02	Si+4	8.0000	8.0000							
Al2O3	0.37	Al+3	0.0871	0.0000	0.0871						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	3.12	Fe+3	0.0217			0.0217	0.0000				
MgO	20.72	Mg+2	4.1812			4.1812	0.0000				
MnO	0	Fe+2	0.3848			0.3848	0.0000				
CaO	13.78	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	2.0160					2.0000	0.0160		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100.01		Excess	T site	0.0871	C site	0.0000	B site	0.0160433	A site	0
			Total	8		4.6748		2.0000		0.0000	0.0000
			%Fill	100		93.497		100			

Prefix	none
Name	tremolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-44-1133

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.92	(Mg/(Mg+Fe2))>= 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S45 A1
Client Sample No. SFBC-L2-1CH-100604
Description
Analysis Date 3/7/2005
Analyst KM

Volume (L) 302.04
No. of Grid Openings 82
Filter Area (mm2) 193
Area Analyzed (mm2) 1.19
Analytical Sens. (struc/cc) 0.00215
Dectection Limit. (struc/cc) 0.00643

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	88.4	0.226	0.175 - 0.262 (Poisson)	105
Total Asbestos Structures	88.4	0.226	0.175 - 0.262 (Poisson)	105
Asbestos Structures > 5um	10.9	0.0280	0.0149 - 0.0478	13
Asbestos Fibers and Bundles > 5um	10.9	0.0280	0.0149 - 0.0478	13
PCM Equivalent Fibers-US	10.1	0.0258	0.0133 - 0.0451	12
PCM Equivalent Structures-ISO	5.9	0.0151	0.00605 - 0.0310	7
PROTOCOL ASB STRUCS 5-10	1.7	0.00430	0.00 - 0.0136	2
PROTOCOL ASB STRUCS >10	0.0	<0.00643	0.00 - 0.00643	0
PROTOCOL ASB STRUCS TOTAL	1.7	0.00430	0.00 - 0.0136	2
PROTOCOL CHRYS STRUCS 5-10	0.8	0.00215	0.00 - 0.0102	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00643	0.00 - 0.00643	0
PROTOCOL CHRYS STRUCS TOTAL	0.8	0.00215	0.00 - 0.0102	1
PROTOCOL AMPH STRUCS 5-10	0.8	0.00215	0.00 - 0.0102	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00643	0.00 - 0.00643	0
PROTOCOL AMPH STRUCS TOTAL	0.8	0.00215	0.00 - 0.0102	1
AHERA-like Total Structures 3:1	88.4	0.226	0.175 - 0.262 (Poisson)	105
AHERA-like Asb Strucs >5 and 3:1	10.9	0.0280	0.0149 - 0.0478	13
AHERA-like Asb Strucs 5 - 10 and 3:1	6.7	0.0172	0.00743 - 0.0339	8
AHERA-like Asb Strucs >10 and 3:1	4.2	0.0108	0.00349 - 0.0251	5
Total Other Amphibole Strucs 3:1	0.0	<0.00643	0.00 - 0.00643	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00643	0.00 - 0.00643	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00643	0.00 - 0.00643	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00643	0.00 - 0.00643	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B24	AZQ	1	1	F	5.5	0.65	8.5	179	15876	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [1 0 0] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	2	B14		NSD									
A	3	B4		NSD									
A	4	C4		NSD									
A	5	C14		NSD									
A	6	C24	AQ	2	2	F	1.5	0.3	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	C24	AQ	3	3	F	3	0.25	12			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	7	C34	AQ	4		MD1-1	25	25	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	7	C34	AQ		4	MF	5.5	0.25	22			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
A	8	C44		NSD									
A	9	B42	AQ	5		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
A	9	B42	AQ		5	MF	4	1	4.0			Mg, Si, Ca, Fe Actinolite	
A	10	B32		NSD									
A	11	B22		NSD									
A	12	B12		NSD									
A	13	B2	AQ	6		MD1-0	5	4	1.2			Actinolite	TAS_AHRA
A	13	B2	AQ		6	MF	3	0.6	5.0			Mg, Si, Ca, Fe Actinolite	
A	13	B2	AQ	7	7	F	3	0.2	15			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	13	B2	AQ	8		MD1-1	6	2.5	2.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	B2	AQ		8	MF	6	1.5	4.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	14	C2	AQ	9		MD1-1	25	15	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	14	C2	AQ		9	MF	12	0.75	16			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	15	C12	AQ	10		MD1-0	3	1.2	2.5			Actinolite	TAS_AHRA
A	15	C12	AQ		10	MF	1.5	0.4	3.8			Mg, Si, Ca, Fe Actinolite	
A	16	C22		NSD									
A	17	C32		NSD									
A	18	C42		NSD									
A	19	B40		NSD									
A	20	B30		NSD									
A	21	B20		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	22	B10		NSD									
A	23	C10		NSD									
A	24	C20	AQ	11	11	F	2.75	0.35	7.9			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	25	C30		NSD									
A	26	C40		NSD									
A	27	A41	AQ	12		MD1-1	10	5	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	27	A41	AQ		12	MF	7.5	0.65	12			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	28	A31		NSD									
A	29	A21		NSD									
A	30	A11		NSD									
A	31	A1		NSD									
A	32	D1		NSD									
A	33	D11		NSD									
A	34	D21		NSD									
A	35	D31		NSD									
A	36	D41		NSD									
A	37	A42		NSD									
A	38	A32		NSD									
A	39	A22		NSD									
A	40	A12		NSD									
A	41	A2	AQ	13	13	F	2.5	0.75	3.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
A	42	D2		NSD									
A	43	D12		NSD									
A	44	D22	AQ	14	14	F	15	2.5	6.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	45	D32		NSD									
A	46	D42		NSD									
B	47	B34	CDQ	15	15	F	1.8	0.11	16	180	15877	Mg, Si Chrysotile Verified - KM	TAS_AHRA
B	48	B14	AQ	16	16	F	1.5	0.3	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	49	C4	CD	17	17	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	50	C24		NSD									
B	51	C44		NSD									
B	52	C33	CD	18	18	F	2	0.12	17			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	52	C33	CDQ	19	19	B	1.7	0.25	6.8			Mg, Si Chrysotile	TAS_AHRA
B	53	C13	CD	20		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
B	53	C13	CD		20	MF	1.8	0.1	18			Chrysotile	
B	53	C13	CD	21	21	F	1	0.1	10			Chrysotile	TAS_AHRA
B	54	B3		NSD									
B	55	B23	CD	22	22	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	55	B23	CD	23	23	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	56	B43	CD	24		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
B	56	B43	CD		24	MF	0.8	0.1	8.0			Chrysotile	
B	57	B32	CD	25	25	F	3.8	0.1	38			Chrysotile	TAS_AHRA
B	57	B32	CD	26	26	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	57	B32	CD	27	27	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	57	B32	AQ	28	28	F	5.2	1.2	4.3			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	58	B12	CD	29	29	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
B	59	C12		NSD									
B	60	C22	CD	30	30	B	1	0.2	5.0			Chrysotile	TAS_AHRA
B	60	C22	AQ	31	31	F	3.8	0.6	6.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	60	C22	CD	32		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
B	60	C22	CD		32	MF	1.2	0.11	11			Chrysotile	
B	61	C42	CD	33	33	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	62	C31	CD	34	34	B	1.5	0.15	10			Chrysotile	TAS_AHRA
B	62	C31	CDQ	35	35	B	4	0.15	27			Mg, Si Chrysotile	TAS_AHRA
B	63	C11	CD	36	36	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	63	C11	CD	37	37	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	64	B1	CD	38	38	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	64	B1	CD	39	39	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	64	B1	CD	40	40	F	1	0.1	10			Chrysotile	TAS_AHRA
B	65	B21	CD	41	41	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	65	B21	AQ	42		MD1-0	4.5	2	2.2			Actinolite	TAS_AHRA
B	65	B21	AQ		42	MF	2	0.4	5.0			Mg, Si, Ca, Fe Actinolite	
B	66	B41	CD	43	43	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	66	B41	CD	44	44	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	66	B41	AQ	45		MD1-1	6.5	1.5	4.3			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	66	B41	AQ		45	MF	6	0.6	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	66	B41	CD	46	46	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	66	B41	CD	47		MD1-0	1.5	0.8	1.9			Chrysotile	TAS_AHRA
B	66	B41	CD		47	MF	0.6	0.1	6.0			Chrysotile	
B	67	A31	CD	48	48	F	1	0.1	10			Chrysotile	TAS_AHRA
B	67	A31	CD	49	49	B	3	0.2	15			Chrysotile	TAS_AHRA
B	67	A31	CD	50	50	F	1	0.12	8.3			Chrysotile	TAS_AHRA
B	68	A11	CD	51	51	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	68	A11	CD	52	52	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	68	A11	CD	53		MD1-0	1.5	0.8	1.9			Chrysotile	TAS_AHRA
B	68	A11	CD		53	MF	1	0.1	10			Chrysotile	
B	68	A11	CD	54	54	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA
B	69	D1	CD	55	55	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	69	D1	CD	56	56	B	4.2	0.2	21			Chrysotile	TAS_AHRA
B	69	D1	CD	57	57	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	70	D21	AQ	58	58	F	2.5	0.5	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	70	D21	AQ	59	59	F	4.5	1.2	3.7			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	70	D21	CD	60	60	F	2	0.1	20			Chrysotile	TAS_AHRA
B	70	D21	CD	61	61	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	70	D21	CD	62	62	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	70	D21	AQ	63	63	F	2.2	0.22	10			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	71	D41	CD	64	64	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	71	D41	AQ	65	65	F	1.7	0.4	4.2			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	71	D41	CD	66	66	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	71	D41	CD	67	67	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	72	D32	CD	68	68	B	3	0.15	20			Chrysotile	TAS_AHRA
B	72	D32	CD	69	69	F	1	0.1	10			Chrysotile	TAS_AHRA
B	72	D32	CD	70		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
B	72	D32	CD		70	MF	1.5	0.1	15			Chrysotile	
B	73	D12	AQ	71	71	F	4	0.25	16			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	73	D12	CD	72	72	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	73	D12	CD	73	73	F	1.5	0.1	15			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	73	D12	CD	74	74	F	1.5	0.12	12			Chrysotile	TAS_AHRA
B	73	D12	CD	75	75	F	1	0.1	10			Chrysotile	TAS_AHRA
B	74	A2	AQ	76		MD1-1	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	74	A2	AQ		76	MF	8.5	1.2	7.1			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	74	A2	CD	77	77	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	74	A2	AQ	78	78	F	2	0.2	10			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	74	A2	CD	79	79	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	74	A2	CD	80	80	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	74	A2	AQ	81	81	F	8	1	8.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	74	A2	CD	82	82	F	1	0.1	10			Chrysotile	TAS_AHRA
B	75	A22	CD	83	83	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
B	75	A22	CD	84	84	F	8.2	0.1	82			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	75	A22	CD	85	85	F	1	0.1	10			Chrysotile	TAS_AHRA
B	75	A22	CD	86	86	F	3.2	0.1	32			Chrysotile	TAS_AHRA
B	75	A22	CD	87	87	F	0.9	0.12	7.5			Chrysotile	TAS_AHRA
C	76	B44	CD	88	88	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	77	B24	CD	89		MD1-0	1	0.6	1.7			Chrysotile	TAS_AHRA
C	77	B24	CD		89	MF	0.5	0.1	5.0			Chrysotile	
C	78	B4	CD	90	90	F	1	0.08	12			Chrysotile	TAS_AHRA
C	78	B4	CDQ	91	91	B	1.2	0.12	10			Mg, Si Chrysotile	TAS_AHRA
C	78	B4	AQ	92	92	F	9	1.2	7.5			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	78	B4	CD	93	93	B	3	0.4	7.5	181		Mg, Si Chrysotile Verified - KM	TAS_AHRA
C	78	B4	CD	94	94	F	1.1	0.1	11			Chrysotile	TAS_AHRA
C	79	C14	CD	95	95	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	79	C14	CD	96	96	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	79	C14	AQ	97	97	F	12.5	1.5	8.3			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	80	C34	CD	98	98	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	80	C34	CD	99	99	F	1.8	0.12	15			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

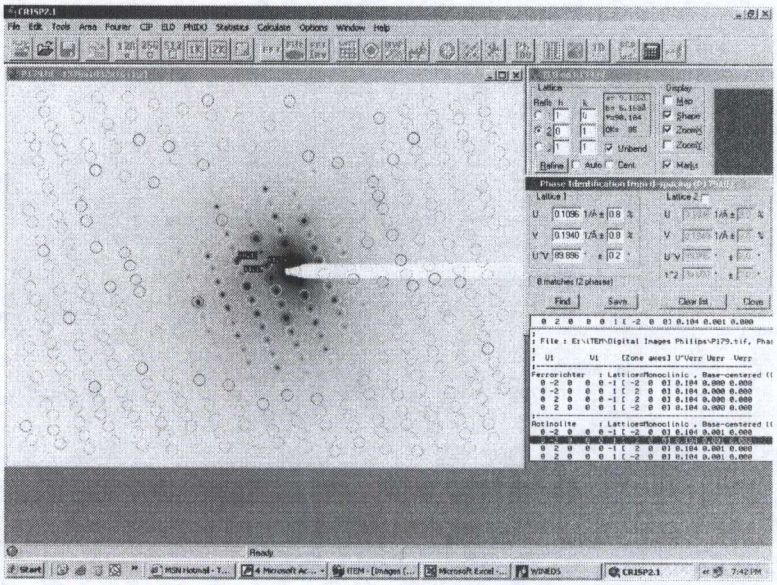
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

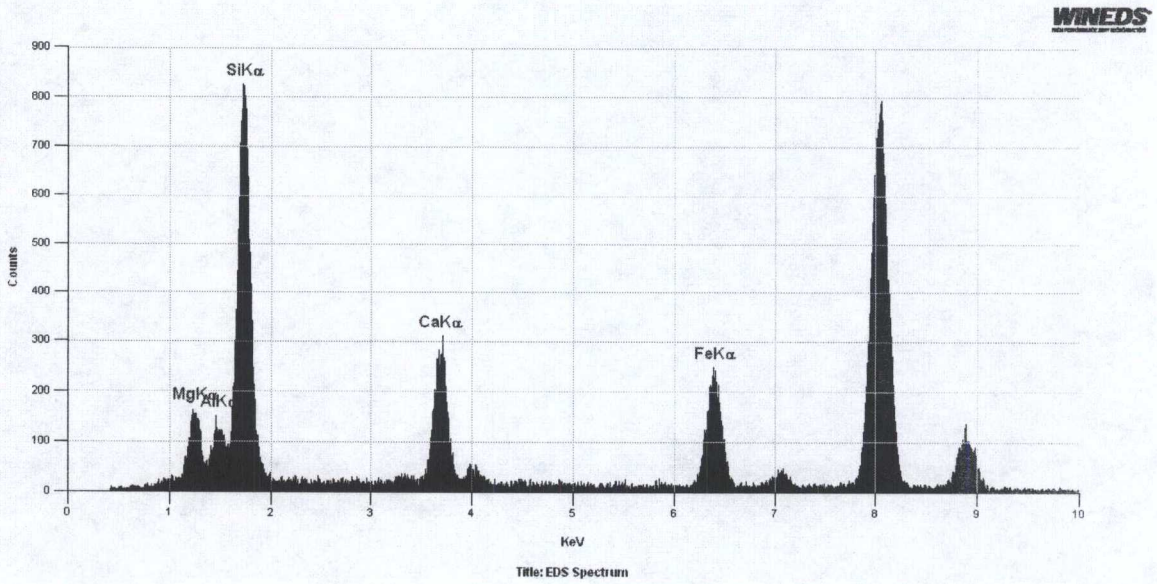
Sample No.: SFBC-L2-1CH-100604 *Lab/Cor Sample No.:* B4771 S45 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	81	C22	CD	100	100	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	81	C22	CD	101	101	F	2	0.1	20			Chrysotile	TAS_AHRA
C	82	B4	CD	102	102	F	1	0.1	10			Mg,Si Chrysotile	TAS_AHRA
C	82	B4	CD	103	103	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	82	B4	CD	104		MD1-0	3.5	1	3.5			Chrysotile	TAS_AHRA
C	82	B4	CD		104	MB	2.5	0.75	3.3			Chrysotile	
C	82	B4	CD	105		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
C	82	B4	CD		105	MF	1	0.1	10			Chrysotile	

ACTINOLITE
Zone Axis [1 0 0]
Neg# P179 Job# 041188-45
iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-45 SP 15876 Mon, Mar 07 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 12.72
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.37	MgO	11.54	1.08	11.54
Al	1.07	Al2O3	2.44	0.36	2.44
Si	20.93	SiO2	56.49	1.99	56.49
Ca	4.95	CaO	12.47	0.83	12.47
Fe	4.76	Fe2O3	17.07	1.42	17.07
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	56.49	Si+4	8.0000	8.0000							
Al2O3	2.44	Al+3	0.4091	0.0000	0.4091						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	17.07	Fe+3	0.0191			0.0191	0.0000				
MgO	11.54	Mg+2	2.4432			2.4432	0.0000				
MnO	0	Fe+2	2.0059			2.0059	0.0000				
CaO	12.47	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.8970					1.8970	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100.01		Excess	T site	0.4091	C site	0.0000	B site	0	A site	0
			Total	8		4.8773		1.8970		0.0000	0.0000
			%Fill	100		97.5456		94.8507			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-45-15876

Values		Satisfied Conditions
(Ca,Na)@B	1.90	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.90	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.55	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771.S47 A1
Client Sample No. SFBC-L2-3CH-100604
Description
Analysis Date 3/22/2005
Analyst KM

Volume (L) 309
No. of Grid Openings 37
Filter Area (mm2) 193
Area Analyzed (mm2) 1.97
Analytical Sens. (struc/cc) 0.00127
Dectection Limit. (struc/cc) 0.00379

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	50.7	0.127	0.103 - 0.154 (Poisson)	100
Total Asbestos Structures	50.7	0.127	0.103 - 0.154 (Poisson)	100
Asbestos Structures > 5um	4.6	0.0114	0.00522 - 0.0217	9
Asbestos Fibers and Bundles > 5um	2.5	0.00634	0.00206 - 0.0148	5
PCM Equivalent Fibers-US	1.5	0.00380	0.00 - 0.00983	3
PCM Equivalent Structures-ISO	2.0	0.00507	0.00138 - 0.0130	4
PROTOCOL ASB STRUCS 5-10	0.5	0.00127	0.00 - 0.00601	1
PROTOCOL ASB STRUCS >10	0.0	<0.00379	0.00 - 0.00379	0
PROTOCOL ASB STRUCS TOTAL	0.5	0.00127	0.00 - 0.00601	1
PROTOCOL CHRYS STRUCS 5-10	0.5	0.00127	0.00 - 0.00601	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00379	0.00 - 0.00379	0
PROTOCOL CHRYS STRUCS TOTAL	0.5	0.00127	0.00 - 0.00601	1
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00379	0.00 - 0.00379	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00379	0.00 - 0.00379	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00379	0.00 - 0.00379	0
AHERA-like Total Structures 3:1	50.7	0.127	0.103 - 0.154 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	4.6	0.0114	0.00522 - 0.0217	9
AHERA-like Asb Strucs 5 - 10 and 3:1	2.5	0.00634	0.00206 - 0.0148	5
AHERA-like Asb Strucs >10 and 3:1	2.0	0.00507	0.00138 - 0.0130	4
Total Other Amphibole Strucs 3:1	0.0	<0.00379	0.00 - 0.00379	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00379	0.00 - 0.00379	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00379	0.00 - 0.00379	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00379	0.00 - 0.00379	0

Cont

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-3CH-100604 *Lab/Cor Sample No.:* B4771 S47 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	CDQ	1	1	F	1.5	0.08	19			Mg, Si Chrysotile	TAS_AHRA
A	2	B24	CMQ	2	2	F	1.8	0.12	15			Mg, Si Chrysotile	TAS_AHRA
A	3	B4	CD	3	3	B	1.2	0.15	8.0			Chrysotile	TAS_AHRA
A	4	C14	CDQ	4	4	F	1.2	0.1	12	1559	1193	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	C14	AQ	5	5	F	10.5	3.3	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	4	C14	CD	6	6	F	0.6	0.11	5.5			Chrysotile	TAS_AHRA
A	5	C34	CD	7	7	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	5	C34	CD	8		MD1-0	3.2	0.8	4.0			Chrysotile	TAS_AHRA
A	5	C34	CD		8	MF	0.7	0.08	8.8			Chrysotile	
A	5	C34	CD	9	9	F	1.7	0.1	17			Chrysotile	TAS_AHRA
A	6	C43	CD	10	10	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	6	C43	CD	11	11	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	6	C43	AQ	12	12	F	5.5	0.8	6.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	7	C23	CD	13	13	F	1	0.1	10			Chrysotile	TAS_AHRA
A	7	C23	CD	14	14	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	7	C23	CD	15	15	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	7	C23	CD	16	16	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	7	C23	CD	17	17	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
A	7	C23	CD	18	18	F	2	0.1	20			Chrysotile	TAS_AHRA
A	8	C3	AQ	19	19	F	2	0.45	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	8	C3	CD	20	20	F	0.7	0.05	14			Chrysotile	TAS_AHRA
A	8	C3	CD	21	21	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
A	9	B3	CDQ	22	22	F	1	0.08	12			Mg, Si Chrysotile	TAS_AHRA
A	9	B3	CD	23		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
A	9	B3	CD		23	MF	0.7	0.07	10			Chrysotile	
A	9	B3	CD	24	24	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	9	B3	CD	25	25	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	9	B3	AQ	26	26	F	5.5	0.7	7.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	10	B13	CD	27	27	F	0.55	0.05	11			Chrysotile	TAS_AHRA
A	10	B13	CD	28		MD1-0	2.8	1.5	1.9			Chrysotile	TAS_AHRA
A	10	B13	CD		28	MF	0.5	0.08	6.2			Chrysotile	

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-3CH-100604 *Lab/Cor Sample No.:* B4771 S47 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	11	B33	CD	29	29	F	0.8	0.07	11			Chrysotile	TAS_AHRA
A	11	B33	AZQ	30	30	B	3.2	1	3.2	1560	1194	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [9 1 8] - JH	TAS_AHRA
A	11	B33	CD	31	31	F	0.5	0.06	8.3			Chrysotile	TAS_AHRA
A	12	B43	CD	32	32	F	0.5	0.06	8.3			Chrysotile	TAS_AHRA
A	13	B41	CD	33	33	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	13	B41	CD	34	34	F	7.5	0.07	110			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	B41	CD	35	35	F	0.9	0.07	13			Chrysotile	TAS_AHRA
A	13	B41	CD	36	36	F	0.7	0.06	12			Chrysotile	TAS_AHRA
A	13	B41	CD	37	37	F	1	0.08	12			Chrysotile	TAS_AHRA
A	13	B41	CD	38	38	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	14	B21	CD	39	39	F	1	0.07	14			Chrysotile	TAS_AHRA
A	14	B21	CD	40	40	F	1.1	0.07	16			Chrysotile	TAS_AHRA
A	14	B21	CD	41	41	F	0.7	0.06	12			Chrysotile	TAS_AHRA
A	15	B1	AQ	42		MD1-0	18	13	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	15	B1	AQ		42	MF	3.8	0.9	4.2			Mg, Al, Si, Ca, Fe Actinolite	
A	16	C11	CD	43	43	F	1.1	0.06	18			Chrysotile	TAS_AHRA
A	16	C11	CD	44	44	F	0.8	0.06	13			Chrysotile	TAS_AHRA
A	16	C11	CD	45	45	F	4	0.06	67			Chrysotile	TAS_AHRA
A	16	C11	CD	46	46	F	0.5	0.05	10			Chrysotile	TAS_AHRA
A	16	C11	CD	47	47	F	1.3	0.06	22			Chrysotile	TAS_AHRA
A	17	C41	CD	48	48	F	2	0.06	33			Chrysotile	TAS_AHRA
A	17	C41	CD	49	49	F	0.7	0.06	12			Chrysotile	TAS_AHRA
B	18	A33	CD	50	50	F	0.7	0.06	12			Chrysotile	TAS_AHRA
B	18	A33	CD	51	51	F	1	0.07	14			Chrysotile	TAS_AHRA
B	18	A33	CD	52	52	F	0.7	0.06	12			Chrysotile	TAS_AHRA
B	19	A13	CD	53	53	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	20	D3	CD	54	54	F	0.7	0.06	12			Chrysotile	TAS_AHRA
B	20	D3	CD	55	55	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	21	D23	CD	56	56	F	0.5	0.06	8.3			Chrysotile	TAS_AHRA
B	21	D23	CD	57	57	F	0.5	0.06	8.3			Chrysotile	TAS_AHRA
B	22	D43	CD	58	58	F	0.6	0.06	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-3CH-100604 *Lab/Cor Sample No.:* B4771 S47 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	22	D43	CD	59	59	F	0.8	0.06	13			Chrysotile	TAS_AHRA
B	22	D43	CD	60	60	F	1	0.06	17			Chrysotile	TAS_AHRA
B	23	D41	CD	61	61	F	1	0.06	17			Chrysotile	TAS_AHRA
B	24	D21	AQ	62	62	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	24	D21	CD	63	63	F	1.5	0.06	25			Chrysotile	TAS_AHRA
B	24	D21	CD	64	64	F	1.5	0.06	25			Chrysotile	TAS_AHRA
B	24	D21	AQ	65	65	F	3.5	0.5	7.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	D21	CD	66	66	F	1	0.07	14			Chrysotile	TAS_AHRA
B	24	D21	CD	67	67	F	1.1	0.08	14			Chrysotile	TAS_AHRA
B	25	D1	CD	68		MD1-0	3	2.5	1.2			Chrysotile	TAS_AHRA
B	25	D1	CD		68	MF	1.2	0.06	20			Chrysotile	
B	26	A31	CD	69	69	F	1	0.06	17			Chrysotile	TAS_AHRA
B	26	A31	CD	70	70	F	0.6	0.06	10			Chrysotile	TAS_AHRA
B	26	A31	CD	71	71	F	0.6	0.06	10			Chrysotile	TAS_AHRA
B	27	A41	CD	72	72	F	0.6	0.06	10			Chrysotile	TAS_AHRA
B	27	A41	CD	73	73	F	1.2	0.07	17			Chrysotile	TAS_AHRA
B	28	B40	CDQ	74	74	F	0.7	0.06	12			Mg, Si Chrysotile	TAS_AHRA
B	28	B40	CDQ	75	75	F	0.9	0.07	13			Mg, Si Chrysotile	TAS_AHRA
B	28	B40	CDQ	76	76	F	0.9	0.07	13	1561	1195	Mg, Si Chrysotile Verified - JH	TAS_AHRA
B	29	B20	CD	77	77	F	1.3	0.06	22			Chrysotile	TAS_AHRA
B	29	B20	CD	78		MD1-0	2.7	1.3	2.1			Chrysotile	TAS_AHRA
B	29	B20	CD		78	MF	1	0.05	20			Chrysotile	
B	29	B20	CD	79	79	F	1.1	0.06	18			Chrysotile	TAS_AHRA
B	29	B20	CD	80	80	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	30	B10	CD	81		MD1-0	1.3	0.7	1.9			Chrysotile	TAS_AHRA
B	30	B10	CD		81	MF	0.8	0.06	13			Chrysotile	
B	30	B10	CD	82	82	F	1	0.08	12			Chrysotile	TAS_AHRA
B	30	B10	CD	83	83	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	31	C10	CD	84	84	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	31	C10	CD	85	85	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	31	C10	CD	86	86	F	0.9	0.08	11			Chrysotile	TAS_AHRA
B	31	C10	AQ	87	87	B	4.8	1.3	3.7			Mg, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

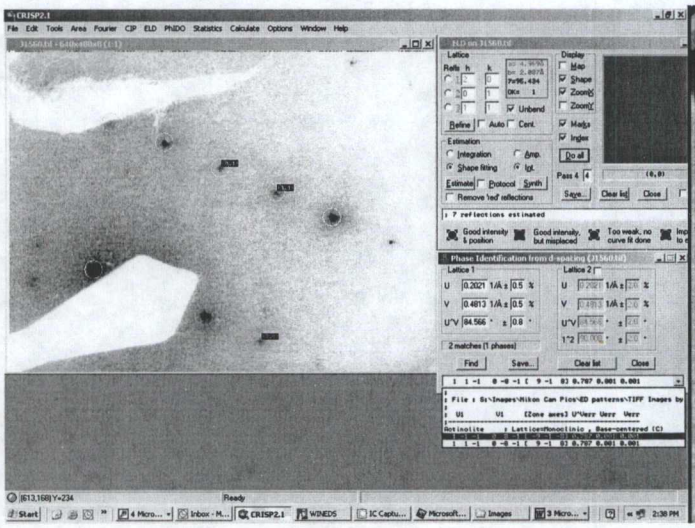
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

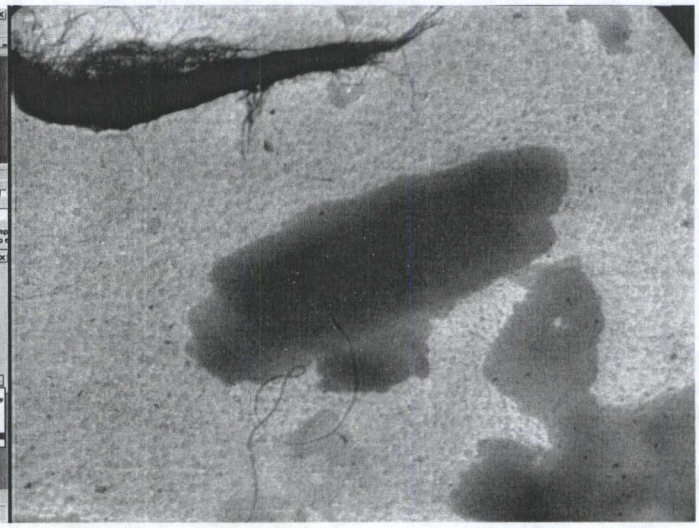
Sample No.: SFBC-L2-3CH-100604 *Lab/Cor Sample No.:* B4771 S47 A1

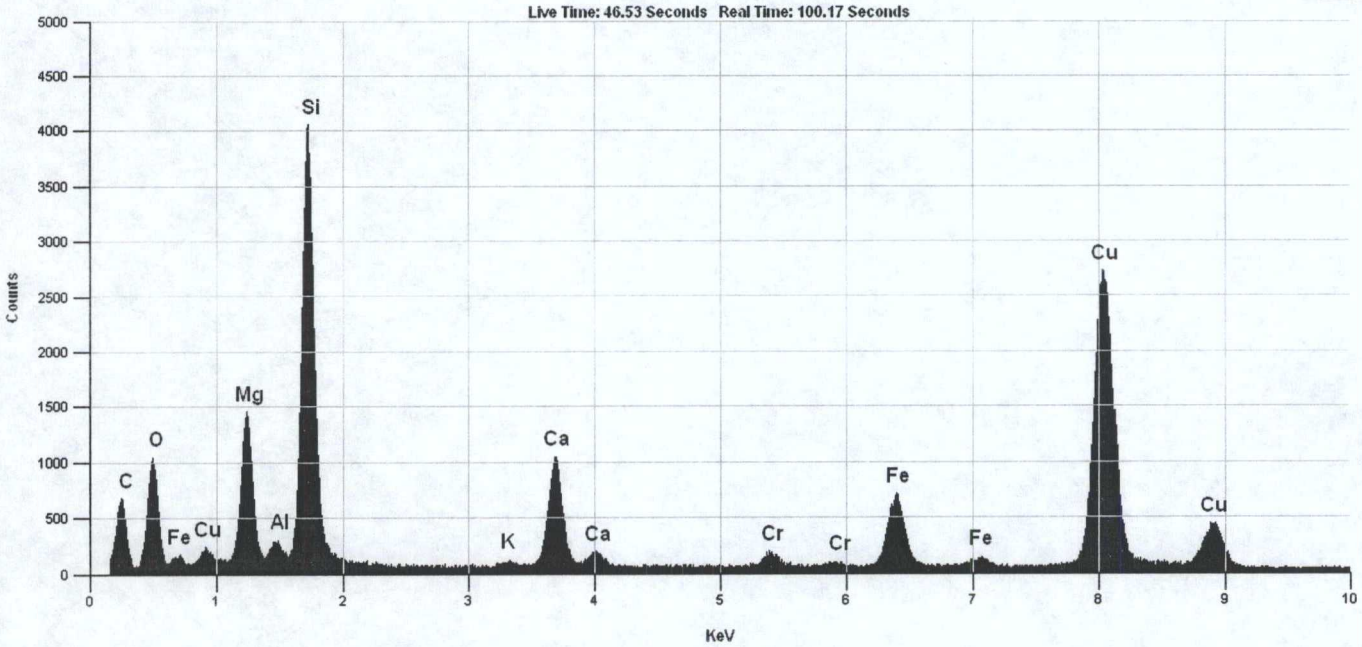
Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	32	C30	CD	88		MD1-0	5.5	0.7	7.9			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	32	C30	CD		88	MF	4.8	0.07	69			Chrysotile	
B	32	C30	CD	89	89	F	1.6	0.08	20			Chrysotile	TAS_AHRA
B	33	C40	CD	90	90	F	0.5	0.07	7.1			Chrysotile	TAS_AHRA
B	33	C40	CD	91	91	F	0.7	0.07	10			Chrysotile	TAS_AHRA
B	33	C40	CD	92		MD1-0	2.3	0.7	3.3			Chrysotile	TAS_AHRA
B	33	C40	CD		92	MF	1.2	0.07	17			Chrysotile	
B	33	C40	CD	93	93	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	33	C40	CD	94	94	F	1.4	0.06	23			Chrysotile	TAS_AHRA
B	34	C22	AQ	95	95	F	3.8	0.6	6.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	34	C22	CD	96	96	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	35	C2	CD	97	97	F	0.7	0.09	7.8			Chrysotile	TAS_AHRA
B	36	B12	CD	98	98	F	1.2	0.07	17			Chrysotile	TAS_AHRA
B	37	B22	CD	99		MD1-0	23	13	1.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	37	B22	CD		99	MF	1.5	0.1	15			Chrysotile	
B	37	B22	CD	100		MD1-0	13	6	2.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	37	B22	CD		100	MF	0.6	0.06	10			Chrysotile	

ACTINOLITE
[9 1 8]
041188-47, Neg#J1560







Title: 041188-47-SP1194 Time: 2:11:20 PM Date: Wed, Mar 23 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-47-SP1194 Wed, Mar 23 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 157.62
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	7.44	MgO	13.58	0.34	13.58
Al	0.47	Al2O3	1.08	0.12	1.08
Si	21.12	SiO2	57.45	0.82	57.45
K	0.19	K2O	0.41	0.11	0.41
Ca	5.31	CaO	13.49	0.42	13.49
Fe	3.87	Fe2O3	13.99	0.60	13.99
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.45	Si+4	8.0000	8.0000							
Al2O3	1.08	Al+3	0.1870	0.0000	0.1870						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	13.99	Fe+3	0.0199			0.0199	0.0000				
MgO	13.58	Mg+2	2.8680			2.8680	0.0000				
MnO	0	Fe+2	1.6404			1.6404	0.0000				
CaO	13.49	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	2.0475					2.0000	0.0475		
K2O	0.41	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0822							0.0822	0.0000
Total	100		Excess	T site	0.1870	C site	0.0000	B site	0.0474536	A site	0
			Total	8		4.7154		2.0000		0.0822	0.0000
			%Fill	100		94.3077		100			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-47-1194

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.08	Si > 7.5
Mg/(Mg+Fe2)	0.64	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S48 A1
Client Sample No. SFBC-L2-4CH-100604
Description
Analysis Date 3/23/2005
Analyst DW

Volume (L) 312.72
No. of Grid Openings 79
Filter Area (mm2) 193
Area Analyzed (mm2) 1.14
Analytical Sens. (struc/cc) 0.00216
Dectection Limit. (struc/cc) 0.00645

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	89.1	0.220	0.175 - 0.262 (Poisson)	102
Total Asbestos Structures	89.1	0.220	0.175 - 0.262 (Poisson)	102
Asbestos Structures > 5um	9.6	0.0237	0.0118 - 0.0424	11
Asbestos Fibers and Bundles > 5um	7.0	0.0173	0.00745 - 0.0340	8
PCM Equivalent Fibers-US	6.1	0.0151	0.00607 - 0.0311	7
PCM Equivalent Structures-ISO	5.2	0.0129	0.00475 - 0.0282	6
PROTOCOL ASB STRUCS 5-10	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL ASB STRUCS >10	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL ASB STRUCS TOTAL	1.7	0.00431	0.00 - 0.0136	2
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00645	0.00 - 0.00645	0
PROTOCOL CHRYS STRUCS >10	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL CHRYS STRUCS TOTAL	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL AMPH STRUCS 5-10	0.9	0.00216	0.00 - 0.0102	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00645	0.00 - 0.00645	0
PROTOCOL AMPH STRUCS TOTAL	0.9	0.00216	0.00 - 0.0102	1
AHERA-like Total Structures 3:1	89.1	0.220	0.175 - 0.262 (Poisson)	102
AHERA-like Asb Strucs >5 and 3:1	9.6	0.0237	0.0118 - 0.0424	11
AHERA-like Asb Strucs 5 - 10 and 3:1	8.7	0.0216	0.0103 - 0.0397	10
AHERA-like Asb Strucs >10 and 3:1	0.9	0.00216	0.00 - 0.0102	1
Total Other Amphibole Strucs 3:1	0.0	<0.00645	0.00 - 0.00645	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00645	0.00 - 0.00645	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00645	0.00 - 0.00645	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00645	0.00 - 0.00645	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44		NSD									
A	2	B24	AQ	1	1	F	7.5	2	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	B4	CDQ	2	2	F	1.8	0.1	18	226	15922	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	C14	CD	3	3	F	4.2	0.1	42			Mg, Si Chrysotile	TAS_AHRA
A	5	C34	CD	4	4	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	6	C43	CD	5	5	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	6	C43	CD	6		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA
A	6	C43	CD		6	MF	0.8	0.11	7.3			Chrysotile	
A	7	C23	CD	7	7	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	7	C23	CD	8	8	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	8	C3	CD	9	9	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA
A	8	C3	CD	10	10	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	8	C3	CD	11	11	F	2.2	0.1	22			Chrysotile	TAS_AHRA
A	8	C3	CD	12	12	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	9	B13	CD	13	13	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	10	B33	CD	14		MD1-0	3	1	3.0			Chrysotile	TAS_AHRA
A	10	B33	CD		14	MF	0.8	0.1	8.0			Chrysotile	
A	11	B42	CD	15	15	F	0.6	0.05	12			Chrysotile	TAS_AHRA
A	12	B22	CD	16	16	F	1.2	0.11	11			Chrysotile	TAS_AHRA
A	13	B2		NSD									
A	14	C12	CD	17	17	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	14	C12	CD	18	18	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	14	C12	CD	19	19	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	14	C12	CD	20	20	F	0.7	0.11	6.4			Chrysotile	TAS_AHRA
A	15	C32		NSD									
A	16	C41	CD	21	21	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	17	C21	CD	22	22	F	4.6	0.1	46			Chrysotile	TAS_AHRA
A	18	C1	CD	23	23	F	1.8	0.12	15			Chrysotile	TAS_AHRA
A	19	B11	CD	24	24	F	1.8	0.11	16			Chrysotile	TAS_AHRA
A	20	B31		NSD									
A	21	A41	CD	25	25	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	22	A21	CD	26	26	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	22	A21	CD	27	27	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	22	A21	CD	28	28	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	23	A1		NSD									
A	24	D11	CD	29	29	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
A	25	D31	CD	30	30	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	25	D31	CD	31	31	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	26	D42	CD	32	32	F	1.2	0.12	10			Chrysotile	TAS_AHRA
A	26	D42	CD	33	33	F	4.1	0.12	34			Chrysotile	TAS_AHRA
A	26	D42	CD	34	34	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	26	D42	CD	35	35	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
A	27	D22	CD	36	36	B	1.65	0.15	11			Chrysotile	TAS_AHRA
A	28	D2	AQ	37	37	F	6.5	1	6.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	A22		NSD									
A	30	A32	CD	38	38	F	1	0.1	10			Chrysotile	TAS_AHRA
B	31	A34	AZQ	39	39	F	4.5	1.2	3.7	227	15923	Mg, Si, Ca, Fe Tremolite Zone Axis [5 1 6] - KM	TAS_AHRA
B	31	A34	CD	40	40	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	32	A14	CD	41	41	F	3.2	0.1	32			Chrysotile	TAS_AHRA
B	33	D4	CD	42	42	B	1.6	0.15	11			Chrysotile	TAS_AHRA
B	33	D4	CD	43	43	B	4	0.2	20			Chrysotile	TAS_AHRA
B	34	D24	CD	44	44	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	34	D24	CD	45	45	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	35	D33	CD	46	46	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	35	D33	AQ	47		MD1-0	3.8	1	3.8			Actinolite	TAS_AHRA
B	35	D33	AQ		47	MF	2	0.22	9.1			Mg, Al, Si, Ca, Fe Actinolite	
B	36	D13	AQ	48		MD1-0	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	36	D13	AQ		48	MF	3.3	1	3.3			Mg, Al, Si, Ca, Fe Actinolite	
B	37	A3	CD	49		MD1-0	1.8	1.2	1.5			Chrysotile	TAS_AHRA
B	37	A3	CD		49	MB	1.8	0.22	8.2			Chrysotile	
B	38	A23		NSD									
B	39	A43		NSD									
B	40	A32	CD	50	50	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	41	A12	AQ	51	51	F	7.2	0.8	9.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	42	D2	AQ	52		MD1-0	2	1.8	1.1			Actinolite	TAS_AHRA
B	42	D2	AQ		52	MF	1.8	0.35	5.1			Mg, Al, Si, Ca, Fe Actinolite	
B	43	D22		NSD									
B	44	D42	CD	53	53	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
B	45	D31	CD	54	54	F	1.1	0.1	11			Chrysotile	TAS_AHRA
B	45	D31	CD	55	55	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	45	D31	CD	56	56	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	46	D11	CD	57	57	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	47	A1	CD	58	58	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	48	A21		NSD									
B	49	A41		NSD									
B	50	B41		NSD									
B	51	B21	CD	59	59	F	1	0.1	10			Chrysotile	TAS_AHRA
B	52	B1		NSD									
B	53	C11	CD	60	60	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	53	C11	CD	61	61	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	53	C11	CD	62	62	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	54	C31	CD	63	63	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	54	C31	CMQ	64	64	F	1.2	0.1	12			Mg, Si Chrysotile	TAS_AHRA
B	55	B32		NSD									
B	56	B12	AZQ	65		MD1-0	8.5	5	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	56	B12	AZQ		65	MF	3.8	0.3	13	1573	1207	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [5 1 6] - KM	
B	57	C2		NSD									
B	58	C22	CD	66	66	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	58	C22	AQ	67	67	F	8	1.5	5.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	C42	CD	68	68	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	60	C10	CD	69	69	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	61	A24	CMQ	70		MD1-0	4.5	3.5	1.3			Chrysotile	TAS_AHRA
C	61	A24	CMQ		70	MF	1.5	0.1	15			Chrysotile	
C	61	A24	AQ	71	71	F	2.8	0.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	62	A4	CD	72		MD1-0	2.5	0.5	5.0			Chrysotile	TAS_AHRA
C	62	A4	CD		72	MF	1.5	0.1	15			Chrysotile	
C	62	A4	CD	73	73	F	16	0.1	160			Chrysotile	AS>5, AFB>5, PSAS >10, PSAS TOT, PCAS >10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	62	A4	AQ	74	74	F	2	0.2	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	62	A4	AQ	75		MD1-1	6	6	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	62	A4	AQ		75	MF	5.8	0.4	14			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
C	62	A4	CD	76	76	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	63	D14	AQ	77	77	F	4.5	1	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	64	D34	CD	78	78	F	2	0.1	20			Chrysotile	TAS_AHRA
C	64	D34	CD	79	79	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	64	D34	CD	80	80	F	0.8	0.08	10			Chrysotile	TAS_AHRA
C	65	A2	CD	81	81	F	1.8	0.12	15			Chrysotile	TAS_AHRA
C	66	D12	CD	82	82	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	67	D32	CD	83	83	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	68	C1	CD	84		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
C	68	C1	CD		84	MF	1.5	0.1	15			Chrysotile	
C	68	C1	CD	85	85	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
C	69	C21	CD	86	86	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	69	C21	CD	87	87	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	69	C21	CD	88	88	F	1	0.1	10			Chrysotile	TAS_AHRA
C	70	C41		NSD									
C	71	B43		NSD									
C	72	B23	CD	89	89	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
C	72	B23	CD	90	90	F	2	0.12	17			Chrysotile	TAS_AHRA
C	73	C13	CD	91	91	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	73	C13	CD	92	92	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	74	C33	AQ	93		MD1-0	4	1	4.0			Actinolite	TAS_AHRA
C	74	C33	AQ		93	MF	3	0.3	10			Mg, Al, Si, Ca, Fe Actinolite	
C	75	C14	CD	94	94	F	1.8	0.15	12			Chrysotile	TAS_AHRA
C	76	C34		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-4CH-100604 *Lab/Cor Sample No.:* B4771 S48 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	77	C44	CD	95	95	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	78	D20	CD	96	96	F	1	0.1	10			Chrysotile	TAS_AHRA
C	78	D20	AQ	97	97	F	5.8	1.5	3.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	79	D40	CD	98	98	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	79	D40	CD	99	99	B	3.2	0.2	16			Chrysotile	TAS_AHRA
C	79	D40	AQ	100	100	F	4	1.2	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	79	D40	AQ	101	101	F	8.5	0.8	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	79	D40	AQ	102		MD1-0	7	5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	79	D40	AQ		102	MF	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	

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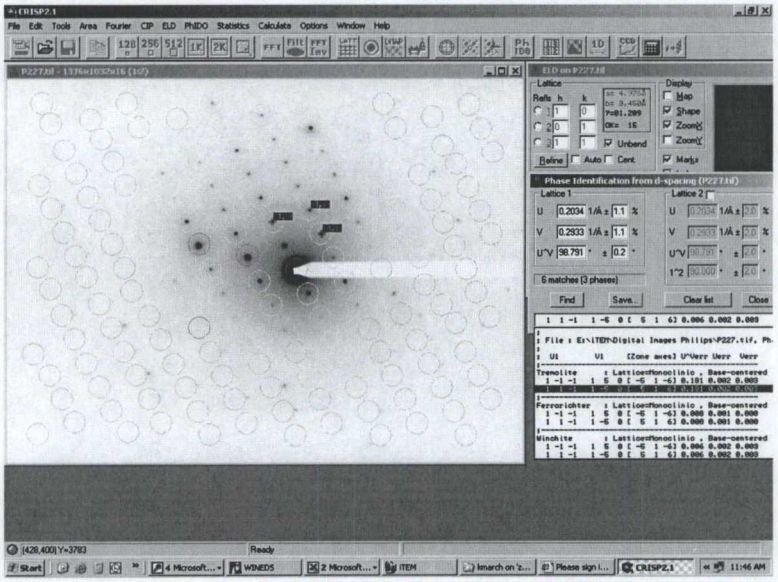
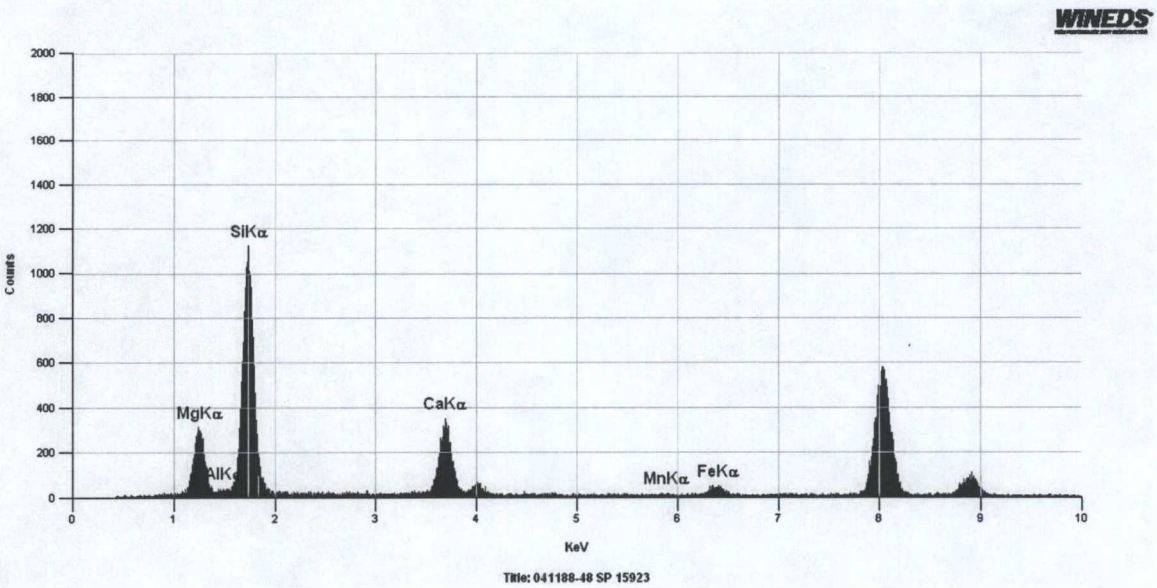
TREMOLITE

Zone Axis [5 1 6]

Neg# P227 Job# 041188-48

3/23/05 iTEM Image





Quantitative Analysis Results - Standardless Analysis :
Spectrum8 041188-48 SP 15923 Wed, Mar 23 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 7.09
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.87	MgO	20.91	1.09	20.91
Si	22.64	SiO2	64.96	1.75	64.96
Ca	4.37	CaO	11.71	0.71	11.71
Fe	0.63	Fe2O3	2.42	0.55	2.42
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	64.96	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	0.0000						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	2.42	Fe+3	0.0499			0.0499	0.0000				
MgO	20.91	Mg+2	4.2697			4.2697	0.0000				
MnO	0	Fe+2	0.3679			0.3679	0.0000				
CaO	11.71	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7778					1.7778	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0000	C site	0.0000	B site	0	A site	0
			Total	8		4.6874		1.7778		0.0000	0.0000
			%Fill	100		93.7489		88.8902			

Prefix none
Name tremolite
Modifier none
Group Calcic Amphibole

Sample # 041188-48-15923

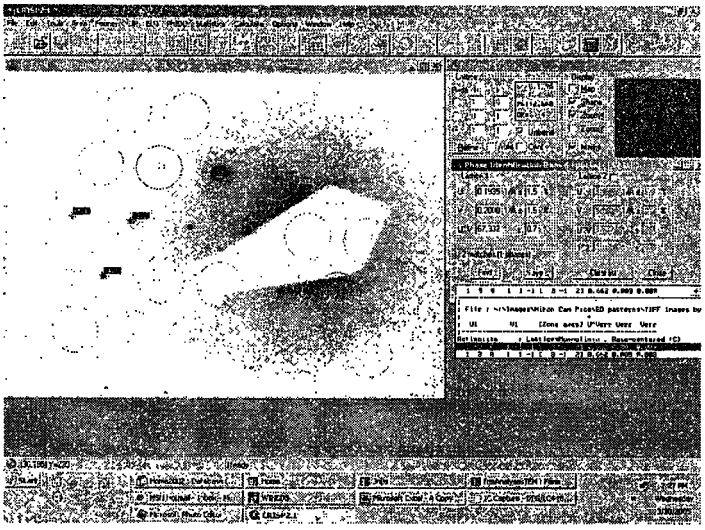
Values		Satisfied Conditions
(Ca,Na)@B	1.78	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.78	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.92	(Mg/(Mg+Fe2))>= 0.9
Si	8.00	

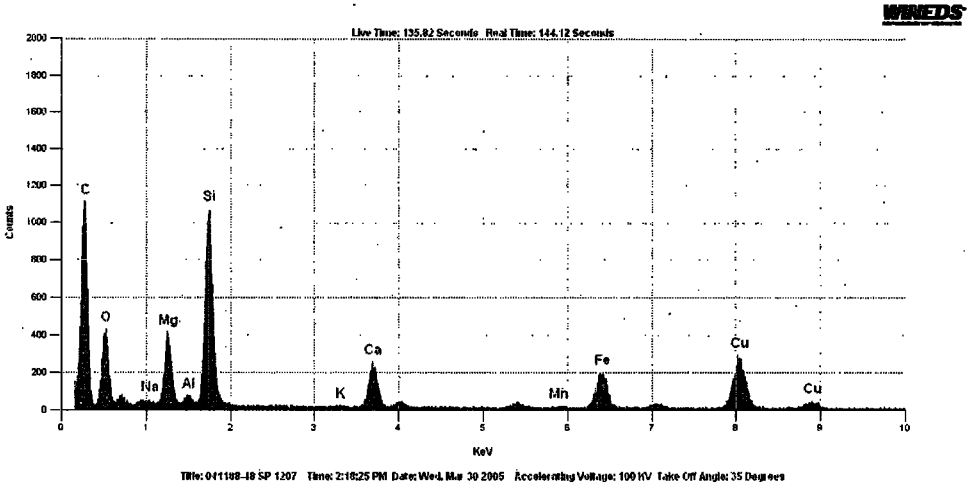
Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

ACTINOLITE - Zone Axis [5 1 6]
Neg# J1573 Job# 041188-48
JEOL 1200EX - Gatan Image





Quantitative Analysis Results - Standardless Analysis :
041188-48 SP 1207 Wed, Mar 30 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 237.79
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.38	Na2O	0.54	0.32	0.54
Mg	8.20	MgO	15.08	0.56	15.08
Al	0.36	Al2O3	0.84	0.21	0.84
Si	21.19	SiO2	58.09	1.35	58.09
K	0.11	K2O	0.24	0.17	0.24
Ca	4.36	CaO	11.15	0.63	11.15
Fe	3.86	Fe2O3	14.05	1.03	14.05
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	58.09	Si+4	8.0000	8.0000							
Al2O3	0.84	Al+3	0.1474	0.0000	0.1474						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	14.05	Fe+3	0.0944			0.0944	0.0000				
MgO	15.08	Mg+2	3.1615			3.1615	0.0000				
MnO	0	Fe+2	1.5546			1.5546	0.0000				
CaO	11.15	Mn+2	0.0000			0.0000	0.0000				
Na2O	0.54	Ca+2	1.6842					1.6842	0.0000		
K2O	0.24	Na+	0.1688					0.1688	0.0000	0.0000	0.0000
		K+	0.0527							0.0527	0.0000
Total	99.99		Excess	T site	0.1474	C site	0.0000	B site	0	A site	0
			Total	8		4.9579		1.8530		0.0527	0.0000
			%Fill	100		99.1585		92.6484			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-48-1207

Values		Satisfied Conditions
(Ca,Na)@B	1.85	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.17	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.68	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.05	Si > 7.5
Mg/(Mg+Fe2)	0.67	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S49 A1	Volume (L)	294.96
Client Sample No.	SFBC-L2-5CH-100604	No. of Grid Openings	137
Description		Filter Area (mm2)	193
Analysis Date	3/24/2005	Area Analyzed (mm2)	1.99
Analyst	DW	Analytical Sens. (struc/cc)	0.00132
		Dectection Limit. (struc/cc)	0.00394

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	50.4	0.132	0.107 - 0.160 (Poisson)	100
Total Asbestos Structures	50.9	0.133	0.107 - 0.160 (Poisson)	101
Asbestos Structures > 5um	9.1	0.0237	0.0141 - 0.0375	18
Asbestos Fibers and Bundles > 5um	5.0	0.0132	0.00632 - 0.0242	10
PCM Equivalent Fibers-US	4.5	0.0119	0.00543 - 0.0225	9
PCM Equivalent Structures-ISO	2.0	0.00527	0.00144 - 0.0135	4
PROTOCOL ASB STRUCS 5-10	1.0	0.00264	0.00 - 0.00831	2
PROTOCOL ASB STRUCS >10	0.0	<0.00394	0.00 - 0.00394	0
PROTOCOL ASB STRUCS TOTAL	1.0	0.00264	0.00 - 0.00831	2
PROTOCOL CHRYS STRUCS 5-10	0.5	0.00132	0.00 - 0.00625	1
PROTOCOL CHRYS STRUCS >10	0.0	<0.00394	0.00 - 0.00394	0
PROTOCOL CHRYS STRUCS TOTAL	0.5	0.00132	0.00 - 0.00625	1
PROTOCOL AMPH STRUCS 5-10	0.5	0.00132	0.00 - 0.00625	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00394	0.00 - 0.00394	0
PROTOCOL AMPH STRUCS TOTAL	0.5	0.00132	0.00 - 0.00625	1
AHERA-like Total Structures 3:1	50.4	0.132	0.107 - 0.160 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	9.1	0.0237	0.0141 - 0.0375	18
AHERA-like Asb Strucs 5 - 10 and 3:1	6.0	0.0158	0.00818 - 0.0276	12
AHERA-like Asb Strucs >10 and 3:1	3.0	0.00791	0.00290 - 0.0172	6
Total Other Amphibole Strucs 3:1	0.0	<0.00394	0.00 - 0.00394	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00394	0.00 - 0.00394	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00394	0.00 - 0.00394	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00394	0.00 - 0.00394	0

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Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44	CD	1		MD2-0	2.5	1	2.5			Chrysotile	TAS_AHRA
A	1	B44	CD		1	MF	1	0.1	10			Chrysotile	
A	1	B44	CD		2	MF	1	0.1	10			Chrysotile	
A	1	B44	CD	2	3	F	1	0.1	10			Chrysotile	TAS_AHRA
A	1	B44	CD	3	4	F	1	0.1	10			Chrysotile	TAS_AHRA
A	2	B34	CD	4	5	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	2	B34	AQ	5		MD1-0	5	1.5	3.3			Actinolite	TAS_AHRA
A	2	B34	AQ		6	MF	1.5	0.3	5.0			Mg, Si, Ca, Fe Actinolite	
A	3	B24		NSD									
A	4	B14	CDQ	6	7	F	1.2	0.1	12	230	15926	Mg,Si Chrysotile Verified - JH	TAS_AHRA
A	4	B14	CD	7	8	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	5	B4		NSD									
A	6	C4	CD	8	9	F	1	0.1	10			Chrysotile	TAS_AHRA
A	6	C4	CD	9	10	F	1	0.1	10			Chrysotile	TAS_AHRA
A	6	C4	CD	10	11	F	1	0.1	10			Chrysotile	TAS_AHRA
A	7	C14		NSD									
A	8	C24		NSD									
A	9	B42		NSD									
A	10	B32	CD	11		MD1-0	2.5	2.5	1.0			Chrysotile	TAS_AHRA
A	10	B32	CD		12	MF	1	0.1	10			Chrysotile	
A	11	B22		NSD									
A	12	B12		NSD									
A	13	B2	CD	12	13	F	1	0.1	10			Chrysotile	TAS_AHRA
A	14	C2		NSD									
A	15	C12		NSD									
A	16	C22		NSD									
A	17	C32		NSD									
A	18	C42	AQ	13		MD1-0	7.5	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	18	C42	AQ		14	MF	2.75	0.75	3.7			Mg, Si, Ca, Fe Actinolite	
A	19	A41		NSD									
A	20	A31		NSD									
A	21	A21		NSD									
A	22	A11	CD	14	15	F	1.5	0.1	15			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	23	A1		NSD									
A	24	D1	CD	15	16	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	25	D11		NSD									
A	26	D21		NSD									
A	27	D31	CD	16	17	F	1	0.1	10			Chrysotile	TAS_AHRA
B	28	B41		NSD									
B	29	B31	CD	17	18	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
B	30	B21		NSD									
B	31	B11		NSD									
B	32	B1		NSD									
B	33	C1		NSD									
B	34	C11		NSD									
B	35	C21	CD	18	19	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	36	A41	CD	19	20	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	37	A31		NSD									
B	38	A21		NSD									
B	39	A11	CD	20	21	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	40	A1		NSD									
B	41	D1		NSD									
B	42	D11		NSD									
B	43	D21		NSD									
B	44	D31		NSD									
B	45	D41		NSD									
B	46	C34		NSD									
B	47	C24		NSD									
B	48	C14		NSD									
B	49	C4		NSD									
B	50	B4	AQ	21		MD1-0	3.7	3	1.2			Actinolite	TAS_AHRA
B	50	B4	AQ		22	MF	2.25	0.4	5.6			Mg, Si, Ca, Fe Actinolite	
B	50	B4	AQ	22		MD1-0	1.9	0.55	3.5			Actinolite	TAS_AHRA
B	50	B4	AQ		23	MF	1.9	0.2	9.5			Mg, Si, Ca, Fe Actinolite	
B	51	B14	CD	23	24	F	1.7	0.1	17			Chrysotile	TAS_AHRA
B	51	B14	CD	24	25	F	1	0.05	20			Chrysotile	TAS_AHRA
B	51	B14	CD	25	26	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	52	B24		NSD									
B	53	D43		NSD									
B	54	D33	AQ	26	27	F	0.95	0.1	9.5			Mg, Si, K, Ca, Fe Actinolite Potassian	TAS_AHRA
B	55	D23	CD	27	28	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	55	D23	CD	28	29	F	1.15	0.15	7.7			Chrysotile	TAS_AHRA
B	56	D13		NSD									
B	57	D3	CD	29	30	F	0.7	0.15	4.7			Chrysotile	TAS_AHRA
B	57	D3	CD	30	31	F	1	0.1	10			Chrysotile	TAS_AHRA
B	58	A3	CD	31	32	F	1.25	0.15	8.3			Chrysotile	TAS_AHRA
B	59	A13	AQ	32		MD1-0	6.5	4.5	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	A13	AQ		33	MF	2.25	0.45	5.0			Mg, Si, Ca, Fe Actinolite	
B	59	A13	CD	33	34	F	1.05	0.15	7.0			Chrysotile	TAS_AHRA
B	60	A23	CD	34	35	F	1.8	0.2	9.0			Chrysotile	TAS_AHRA
C	61	C44	CDQ	35	36	F	1.7	0.15	11			Mg, Si, Fe Chrysotile	TAS_AHRA
C	62	C42	AZQ	36		MD1-0	5.5	4.5	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	62	C42	AZQ		37	MF	3.8	0.65	5.8	237	15939	Mg, Si, Ca, Fe Actinolite Zone Axis [3 1 2] - JH	
C	63	C40		NSD									
C	64	D41		NSD									
C	65	D43		NSD									
C	66	D34	AQ	37		MD1-1	10.5	9.75	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	66	D34	AQ		38	MF	9.5	2.5	3.8			MG, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	67	D32	CD	38	39	F	1.25	0.2	6.2			Chrysotile	TAS_AHRA
C	67	D32	AQ	39		MD1-1	12	10.5	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	67	D32	AQ		40	MF	12	1.05	11			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	68	D30	AQ	40	41	F	2.6	0.25	10			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	69	C31	CD	41	42	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
C	69	C31	CD	42	43	F	0.55	0.1	5.5			Chrysotile	TAS_AHRA
C	70	C33	AQ	43	44	F	4.25	0.6	7.1			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	70	C33	CD	44	45	F	1.25	0.1	12			Chrysotile	TAS_AHRA
C	71	C24	CD	45	46	F	1.8	0.15	12			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	72	C22	AQ	46		MD1-0	9	7.5	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	72	C22	AQ		47	MF	3	0.55	5.5			Mg, Al, Si, K, Ca, Fe Actinolite Potassian	
C	73	C20	CD	47		MD1-0	9.5	6.5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	73	C20	CD		48	MF	2.2	0.1	22			Chrysotile	
C	74	D21	AQ	48	49	F	1.95	0.4	4.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	75	D23		NSD									
C	76	D14	CD	49	50	F	3.5	0.1	35			Chrysotile	TAS_AHRA
C	77	D12	CD	50	51	F	0.75	0.15	5.0			Chrysotile	TAS_AHRA
C	78	D10	CD	51	52	F	1.6	0.1	16			Chrysotile	TAS_AHRA
C	79	C11	CD	52	53	F	0.95	0.1	9.5			Chrysotile	TAS_AHRA
C	80	C13		NSD									
C	81	C4	CD	53	54	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	81	C4	CD	54	55	F	0.55	0.15	3.7			Chrysotile	TAS_AHRA
C	82	C2		NSD									
C	83	D1		NSD									
C	84	D3		NSD									
C	85	A4		NSD									
C	86	A2	CD	55	56	F	0.8	0.2	4.0			Chrysotile	TAS_AHRA
C	86	A2	CD	56	57	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	87	B1		NSD									
C	88	B3	AQ	57		MD1-0	3.5	1.5	2.3			Actinolite	TAS_AHRA
C	88	B3	AQ		58	MF	2.5	0.55	4.5			Mg, Si, Ca, Fe Actinolite	
C	89	B14	CD	58	59	F	0.85	0.1	8.5			Chrysotile	TAS_AHRA
C	90	B10	CD	59	60	F	1.15	0.1	12			Chrysotile	TAS_AHRA
D	91	C44	CD	60	61	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
D	92	C43		NSD									
D	93	C42	CD	61	62	F	1.2	0.1	12			Chrysotile	TAS_AHRA
D	94	C41	CD	62		MD1-0	1	0.7	1.4			Chrysotile	TAS_AHRA
D	94	C41	CD		63	MF	0.75	0.1	7.5			Chrysotile	
D	95	C40		NSD									
D	96	D40	AQ	63	64	F	0.75	0.1	7.5			Actinolite	TAS_AHRA
D	97	D41	CD	64	65	F	4.2	0.15	28			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	98	D42		NSD									
D	99	D43	AQ	65		MD1-1	15	9.5	1.6			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	99	D43	AQ		66	MF	5.05	0.85	5.9			Mg, Si, Ca, Fe Actinolite Ferri	AFB>5, PCMEF-US
D	99	D43	AQ	66		MD1-0	2.7	2	1.4			Actinolite	TAS_AHRA
D	99	D43	AQ		67	MF	2	0.2	10			Mg, Si, Ca, Fe Actinolite	
D	99	D43	CD	67	68	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
D	100	D44		NSD									
D	101	D33		NSD									
D	102	D31		NSD									
D	103	C30		NSD									
D	104	C32	CD	68		MD1-1	15	8	1.9			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	104	C32	CD		69	MF	7	0.15	47			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
D	105	C34	CD	69	70	B	2.2	0.3	7.3			Chrysotile	TAS_AHRA
D	106	C24	AQ	70		MD1-1	8	5.5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	106	C24	AQ		71	MF	5.05	0.55	9.2			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	106	C24	CD	71		MD1-0	3	1.2	2.5			Chrysotile	TAS_AHRA
D	106	C24	CD		72	MF	1.5	0.1	15			Chrysotile	
D	107	C23		NSD									
D	108	C22	AQ	72	73	F	9.5	2	4.8			Mg, Al, Si, Ca, Fe Actinolite Ferrian	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	108	C22	AQ	73	74	F	8.25	1.6	5.2			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	109	A42	CD	74	75	F	1	0.1	10			Chrysotile	TAS_AHRA
E	110	A32	AQ	75	76	F	11	1.2	9.2			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	111	A22		NSD									
E	112	A12	CD	76	77	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
E	112	A12	CD	77	78	F	1	0.1	10			Chrysotile	TAS_AHRA
E	112	A12	CD	78		MD1-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	112	A12	CD		79	MF	1.	0.1	10			Chrysotile	
E	113	A2	CD	79	80	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	114	D2	AQ	80		MD1-1	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	114	D2	AQ		81	MF	5.2	0.5	10			Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
E	115	D12	CD	81	82	F	1	0.1	10			Chrysotile	TAS_AHRA
E	115	D12	CD	82		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	115	D12	CD		83	MF	0.5	0.1	5.0			Chrysotile	
E	115	D12	CD	83	84	F	2	0.1	20			Chrysotile	TAS_AHRA
E	115	D12	CD	84	85	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	116	D22	AQ	85	86	F	6	1.5	4.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
E	117	D32		NSD									
E	118	D42	CD	86	87	F	0.5					Chrysotile	TAS_AHRA
E	119	A40	CD	87	88	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
E	119	A40	CD	88	89	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
E	120	A30		NSD									
E	121	A20	CD	89	90	F	1.5	0.1	15			Chrysotile	TAS_AHRA
E	122	A10		NSD									
E	123	D10		NSD									
E	124	D20	CD	90	91	F	1.5	0.1	15			Chrysotile	TAS_AHRA
E	125	D30		NSD									
E	126	D40		NSD									
E	127	B41	CD	91	92	F	1	0.1	10			Chrysotile	TAS_AHRA
E	128	B31	CD	92	93	F	1.8	0.1	18			Chrysotile	TAS_AHRA
E	128	B31	AQ	93		MD1-0	12.5	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
E	128	B31	AQ		94	MF	2.5	0.75	3.3			Mg, Si, Ca, Fe Actinolite	
E	128	B31	CD	94	95	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
E	128	B31	CD	95	96	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
E	129	B21		NSD									
E	130	B11	CD	96		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
E	130	B11	CD		97	MF	1.5	0.1	15			Chrysotile	
E	130	B11	CD	97	98	F	2.5	0.1	25			Chrysotile	TAS_AHRA
E	131	B1	CD	98	99	F	2.5	0.1	25			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-L2-5CH-100604 *Lab/Cor Sample No.:* B4771 S49 A1

Descripiton:

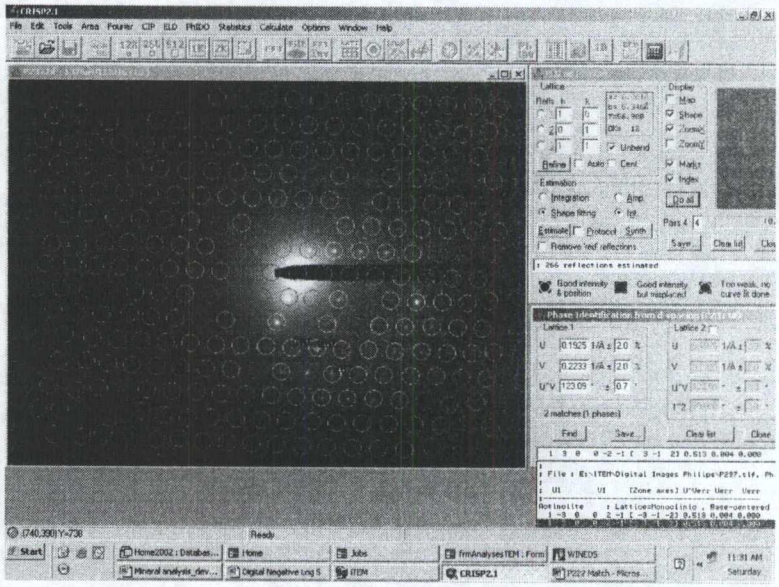
Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
E	132	C1	CD	99		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
E	132	C1	CD		100	MF	1	0.1	10			Chrysotile	
E	133	C11	CD	100	101	F	1.5	0.1	15			Chrysotile	TAS_AHRA
E	134	C21		NSD									
E	135	C10		NSD									
E	136	C20		NSD									
E	137	D10		NSD									

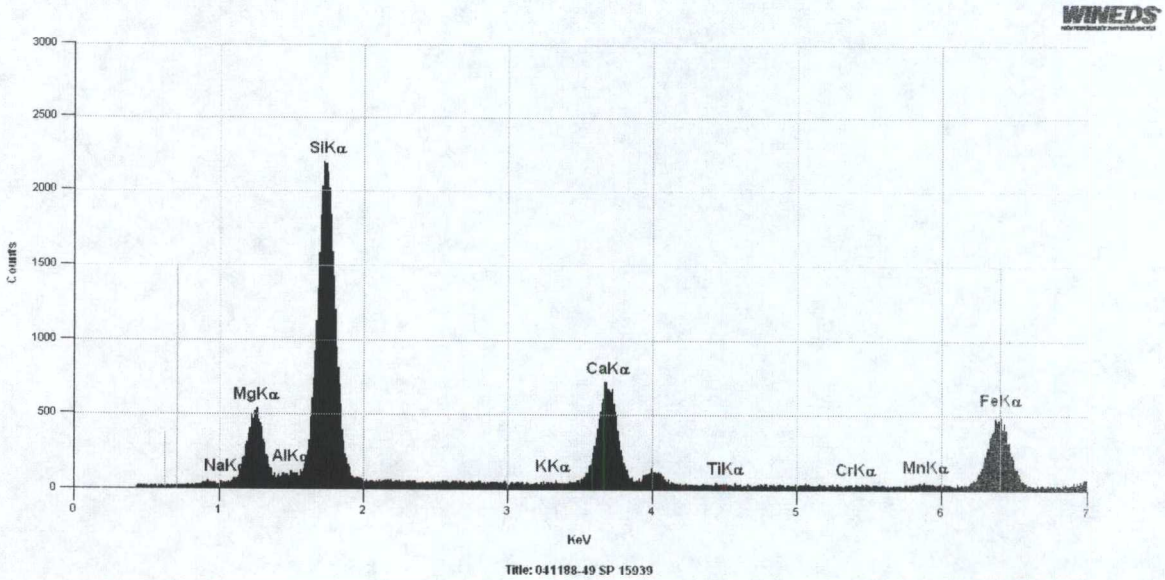
Actinolite

Zone Axis [3 -1 2]

Neg# P237 Job# 041188-49

iTEM Image





Quantitative Analysis Results - Standardless Analysis :
Spectrum8 041188-49 SP 15939 Sat, Mar 26 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 10.05
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	8.69	MgO	16.03	0.64	16.03
Al	0.07	Al2O3	0.17	0.14	0.17
Si	21.47	SiO2	59.02	1.19	59.02
Ca	4.42	CaO	11.34	0.49	11.34
Fe	3.68	Fe2O3	13.44	0.75	13.44
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	59.02	Si+4	8.0000	8.0000							
Al2O3	0.17	Al+3	0.0467	0.0000	0.0467						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	13.44	Fe+3	0.2638			0.2638	0.0000				
MgO	16.03	Mg+2	3.3525			3.3525	0.0000				
MnO	0	Fe+2	1.3012			1.3012	0.0000				
CaO	11.34	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7144					1.7144	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0467	C site	0.0000	B site	0	A site	0
			Total	8		4.9643		1.7144		0.0000	0.0000
			%Fill	100		99.2857		85.7209			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-49-15939

Values		Satisfied Conditions
(Ca,Na)@B	1.71	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.71	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.72	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S86 A1
Client Sample No. SFBA-H2-2PG-100504
Description
Analysis Date 4/1/2005
Analyst DW

Volume (L) 1203.6
No. of Grid Openings 147
Filter Area (mm2) 193
Area Analyzed (mm2) 2.13
Analytical Sens. (struc/cc) 0.000301
Dectection Limit. (struc/cc) 0.000900

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	36.6	0.0235	0.0186 - 0.0293 (Poisson)	78
Total Asbestos Structures	38.5	0.0247	0.0196 - 0.0307 (Poisson)	82
Asbestos Structures > 5um	18.3	0.0117	0.00835 - 0.0161 (Poisson)	39
Asbestos Fibers and Bundles > 5um	13.1	0.00843	0.00560 - 0.0122	28
PCM Equivalent Fibers-US	12.2	0.00783	0.00511 - 0.0115	26
PCM Equivalent Structures-ISO	2.3	0.00151	0.000489 - 0.00351	5
PROTOCOL ASB STRUCS 5-10	0.9	0.000602	0.00 - 0.00190	2
PROTOCOL ASB STRUCS >10	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL ASB STRUCS TOTAL	0.9	0.000602	0.00 - 0.00190	2
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL AMPH STRUCS 5-10	0.9	0.000602	0.00 - 0.00190	2
PROTOCOL AMPH STRUCS >10	0.0	<0.000900	0.00 - 0.000900	0
PROTOCOL AMPH STRUCS TOTAL	0.9	0.000602	0.00 - 0.00190	2
AHERA-like Total Structures 3:1	36.6	0.0235	0.0186 - 0.0293 (Poisson)	78
AHERA-like Asb Strucs >5 and 3:1	18.3	0.0117	0.00835 - 0.0161 (Poisson)	39
AHERA-like Asb Strucs 5 - 10 and 3:1	5.2	0.00331	0.00165 - 0.00593	11
AHERA-like Asb Strucs >10 and 3:1	13.1	0.00843	0.00560 - 0.0122	28
Total Other Amphibole Strucs 3:1	0.0	<0.000900	0.00 - 0.000900	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.000900	0.00 - 0.000900	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.000900	0.00 - 0.000900	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.000900	0.00 - 0.000900	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B43	AQ	1		MD1-1	20	15	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	1	B43	AQ		1	MF	20	4	5.0			Mg, Al, Si, Ca, Fe Actinolite	AFB>5
A	2	B33		NSD									
A	3	B23		NSD									
A	4	B13		NSD									
A	5	B3	AQ	2		MD1-1	10	7.5	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	5	B3	AQ		2	MF	7.5	0.9	8.3			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	6	C3		NSD									
A	7	C13		NSD									
A	8	C23		NSD									
A	9	C33		NSD									
A	10	C43	AQ	3		MD1-0	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	10	C43	AQ		3	MF	1.8	0.6	3.0			Mg, Al, Si, Ca, Fe Actinolite	
A	11	B42		NSD									
A	12	B32	AQ	4		MD1-0	4	2	2.0			Actinolite	TAS_AHRA
A	12	B32	AZQ		4	MF	1.8	0.6	3.0	259	15962	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [5 1 4] - DW	
A	12	B32	CDQ	5		MD1-0	35	30	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	12	B32	CDQ		5	MF	2.5	0.1	25	258	15961	Mg, Si Chrysotile Verified - DW	
A	12	B32	CD	6		MD2-0	5	5	1.0			Chrysotile	TAS_AHRA
A	12	B32	CD		6	MF	1.5	0.1	15			Chrysotile	
A	12	B32	CD		7	MF	1	0.1	10			Chrysotile	
A	13	B22		NSD									
A	14	B12		NSD									
A	15	B2		NSD									
A	16	C2	CD	7	8	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	17	C12	CD	8	9	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	17	C12	CD	9	10	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
A	18	C22	AZQ	10	11	F	1	0.2	5.0	260	15963	Mg, Si,Ca,Fe Tremolite Zone Axis [5 1 4] - DW	TAS_AHRA
A	19	C32	CD	11	12	F	1	0.1	10			Chrysotile	TAS_AHRA
A	20	C42		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	21	B40	AQ	12		MD1-1	15	5	3.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	21	B40	AQ		13	MF	15	2	7.5			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	22	B30	AQ	13		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	22	B30	AQ		14	MF	6	0.75	8.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	23	B20	AQ	14		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	23	B20	AQ		15	MF	9	1	9.0			Actinolite	AFB>5, PCMEF-US
A	24	B10		NSD									
A	25	C10	AQ	15		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	25	C10	AQ		16	MF	15	1.5	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	26	C20		NSD									
A	27	C30		NSD									
A	28	C40	CD	16		MD1-0	2.5	1.5	1.7			Chrysotile	TAS_AHRA
A	28	C40	CD		17	MF	2.5	0.1	25			Chrysotile	
A	29	A31		NSD									
A	30	A21	CD	17	18	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
A	31	A11	AQ	18		MD1-0	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	31	A11	AQ		19	MF	4.5	0.75	6.0			Mg, Si, Ca, Fe Actinolite	
A	32	A1	AQ	19		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	32	A1	AQ		20	MF	12	1.2	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	33	D1	CD	20		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
A	33	D1	CD		21	MF	0.75	0.1	7.5			Chrysotile	
A	33	D1	CD	21	22	F	3	0.1	30			Chrysotile	TAS_AHRA
A	34	D11	AQ	22		MD1-1	35	27	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	34	D11	AQ		23	MF	19	4	4.8			Mg, Si, Ca, Fe Actinolite	AFB>5
A	34	D11	AQ	23		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	34	D11	AQ		24	MF	8	2	4.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	35	D21	AQ	24		MD1-0	6	6	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	35	D21	AQ		25	MF	2	0.5	4.0			Mg, Si, Ca, Fe Actinolite	
A	36	D31		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	37	D41		NSD									
A	38	A42	AQ	25	26	F	12	0.8	15			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	38	A42	AQ	26		MD1-0	7.5	6	1.2			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	38	A42	AQ		27	MF	4	0.6	6.7			Mg, Si, Ca, Fe Tremolite	
A	39	A32	CD	27	28	F	1	0.1	10			Chrysotile	TAS_AHRA
A	40	A22		NSD									
A	41	A12	AQ	28		MD1-0	15	12	1.2			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	41	A12	AQ		29	MF	2.5	0.3	8.3			Mg, Si, Ca, Fe Tremolite	
A	42	A2		NSD									
A	43	D2		NSD									
A	44	D12		NSD									
A	45	D22		NSD									
A	46	D32		NSD									
A	47	D42	AQ	29		MD3-3	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	47	D42	AQ		30	MF	9	1.5	6.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	47	D42	AQ		31	MF	7.5	1.2	6.2			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	47	D42	AQ		32	MF	6.5	0.85	7.6			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	48	B44	CD	30		MD1-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	48	B44	CD		33	MF	4	0.1	40			Mg, Si, Ca, Fe Chrysotile	
B	48	B44	CD	31	34	F	1	0.1	10			Chrysotile	TAS_AHRA
B	49	B34		NSD									
B	50	B24		NSD									
B	51	B14		NSD									
B	52	B4		NSD									
B	53	C4		NSD									
B	54	C14		NSD									
B	55	C24	AQ	32		MD1-0	25	15	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	55	C24	AQ		35	MF	4	0.5	8.0			Mg, Si, Ca, Fe Actinolite	
B	56	C34		NSD									
B	57	C44	CD	33	36	F	4	0.1	40			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	58	B41		NSD									
B	59	B31	AQ	34		MD1-0	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	59	B31	AQ		37	MF	3	0.75	4.0			Mg, Si, Ca, Fe Actinolite	
B	60	B21	CD	35	38	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	61	B11	CD	36	39	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	61	B11	CD	37	40	F	1	0.1	10			Chrysotile	TAS_AHRA
B	62	B1		NSD									
B	63	C1	AQ	38	41	F	2	0.6	3.3			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	64	A40		NSD									
B	65	A30		NSD									
B	66	A20		NSD									
B	67	A10		NSD									
B	68	D10	CD	39		MD1-0	2	1.5	1.3			Chrysotile	TAS_AHRA
B	68	D10	CD		42	MF	1	0.1	10			Chrysotile	
B	69	D20		NSD									
B	70	D30		NSD									
B	71	D40		NSD									
B	72	A41		NSD									
B	73	A31		NSD									
B	74	A21		NSD									
B	75	A11		NSD									
B	76	A1	CD	40	43	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	77	D1		NSD									
B	78	D11	CD	41		MD1-0	12	10	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	78	D11	CD		44	MF	4	0.1	40			Chrysotile	
B	79	D21		NSD									
B	80	D31	AQ	42		MD1-1	7.5	5	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	80	D31	AQ		45	MF	6	1.2	5.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	81	D41	CD	43	46	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	82	A42		NSD									
B	83	A32	CD	44	47	B	3.5	1.5	2.3			Chrysotile	TAS_AHRA
B	84	A22		NSD									

2.3 ASP is 7 L3

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	85	A12		NSD									
B	86	A2		NSD									
B	87	D2	CD	45	48	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	87	D2	CD	46		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
B	87	D2	CD		49	MF	1	0.1	10			Chrysotile	
B	88	D12		NSD									
B	89	D22	CD	47	50	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
B	90	D32		NSD									
B	91	D42	CD	48	51	F	1	0.1	10			Chrysotile	TAS_AHRA
B	91	D42	AQ	49		MD1-1	55	30	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	91	D42	AQ		52	MF	9	1.2	7.5			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	92	B44		NSD									
C	93	B34	CD	50	53	F	3	0.1	30			Chrysotile	TAS_AHRA
C	94	B24		NSD									
C	95	B14		NSD									
C	96	B42	AQ	51	54	B	18	10	1.8			Mg, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	97	B32		NSD									
C	98	B22		NSD									
C	99	B12		NSD									
C	100	B2		NSD									
C	101	C2		NSD									
C	102	C12		NSD									
C	103	C22		NSD									
C	104	C32		NSD									
C	105	C42		NSD									
C	106	B40		NSD									
C	107	B30	CD	52		MD1-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	107	B30	CD		55	MF	1.5	0.1	15			Chrysotile	
C	107	B30	CD	53	56	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	108	B20	AQ	54	57	F	2.75	0.5	5.5			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	109	B10		NSD									
C	110	C10		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	111	C20	AQ	55	58	F	11	1	11			Mg, Si, Ca, Fe Tremolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	112	C30	AQ	56		MD1-1	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	112	C30	AQ		59	MF	5.5	0.75	7.3			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	113	C40	AQ	57		MD1-1	15	15	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	113	C40	AQ		60	MF	7.5	2	3.8			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	113	C40	AQ	58		MD1-1	20	15	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	113	C40	AQ		61	MF	5.5	0.5	11			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
C	114	A41		NSD									
C	115	A31	AQ	59	62	F	2.5	0.5	5.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	115	A31	CD	60	63	F	1	0.1	10			Chrysotile	TAS_AHRA
C	115	A31	CD	61	64	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	116	A21	AQ	62		MD1-1	30	20	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	116	A21	AQ		65	MF	27	2	14			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	117	A11	AQ	63		MD1-1	23	20	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	117	A11	AQ		66	MF	12	2.5	4.8			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	118	A1		NSD									
C	119	D1		NSD									
C	120	D11		NSD									
C	121	D21	AQ	64		MD1-1	30	15	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	121	D21	AQ		67	MF	10	1.2	8.3			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	122	D31	AQ	65	68	F	12	1.2	10			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	123	D41		NSD									
C	124	A42	AQ	66	69	F	4.5	1.5	3.0			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
C	125	A32	AQ	67	70	F	6	1.2	5.0			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	126	A22		NSD									
C	127	A12	CD	68	71	F	1.2	0.1	12			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	127	A12	CD	69	72	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
C	128	A2		NSD									
C	129	D2	CD	70	73	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	129	D2	CD	71	74	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	129	D2	CD	72	75	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
C	130	D12		NSD									
C	131	D22		NSD									
C	132	D32	AQ	73		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	132	D32	AQ		76	MF	5.5	1.8	3.1			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
C	133	D42	AQ	74		MD1-1	10	7.5	1.3			Tremolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	133	D42	AQ		77	MF	6	0.85	7.1			Mg, Si, Ca, Fe Tremolite	AFB>5, PCMEF-US
C	133	D42	CD	75	78	F	1.5	0.1	15			Chrysotile	TAS_AHRA
D	134	B41		NSD									
D	135	B31		NSD									
D	136	B21		NSD									
D	137	B11		NSD									
D	138	B1		NSD									
D	139	C1		NSD									
D	140	C11		NSD									
D	141	C21		NSD									
D	142	C31		NSD									
D	143	C41		NSD									
D	144	A40		NSD									
D	145	A30		NSD									
D	146	A20	AQ	76		MD2-1	20	15	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
D	146	A20	AQ		79	MF	12	2.5	4.8			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
D	146	A20	AQ		80	MF	4.5	0.75	6.0			Mg, Si, Ca, Fe Actinolite	
D	147	A10	AQ	77	81	F	5.2	0.5	10			Mg, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
D	147	A10	AQ	78		MD1-0	25	20	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBA-H2-2PG-100504 *Lab/Cor Sample No.:* B4771 S86 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
D	147	A10	AQ		82	MF	1.5	0.3	5.0			Mg, Si, Ca, Fe Actinolite	

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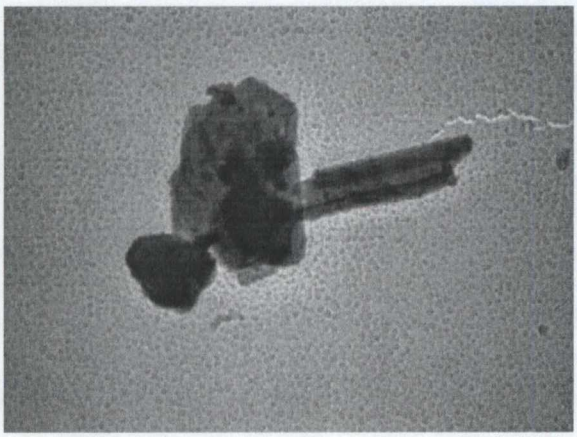
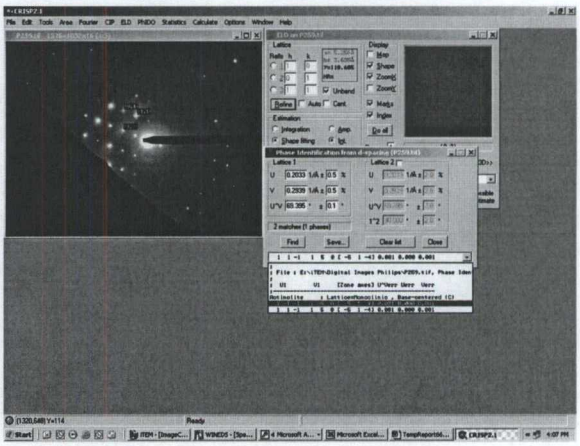
Actinolite

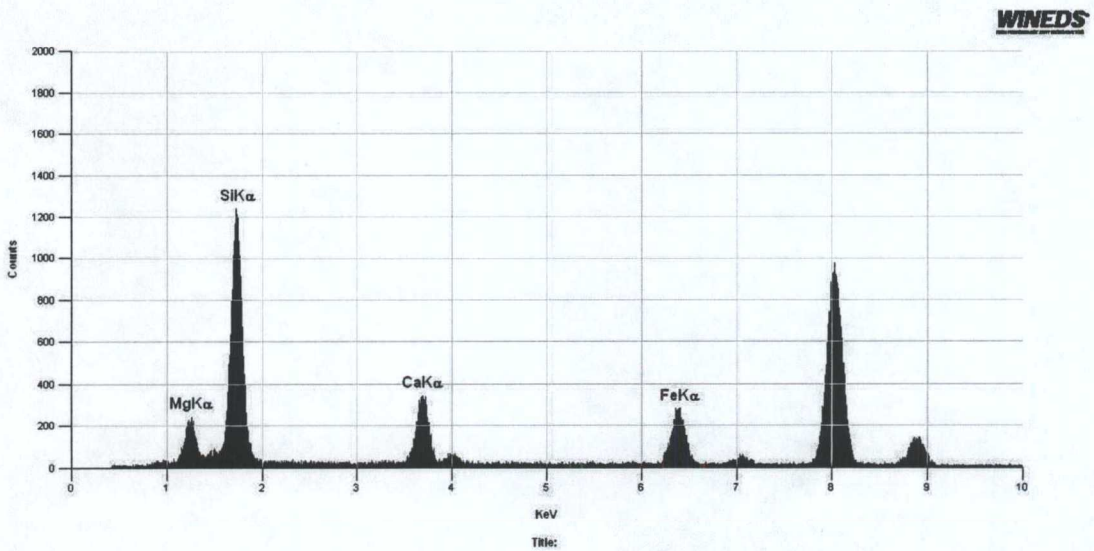
Neg#[259]; [Job# 041188-86]
[4/1/05] iTEM Image
Zone Axis [5 1 4]



13900 : 1

1µm





Quantitative Analysis Results - Standardless Analysis :
04188-86 EDS#15962 Fri, Apr 01 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 13.08

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.93	MgO	12.71	1.01	12.71
Si	22.42	SiO2	61.35	1.91	61.35
Ca	4.35	CaO	11.11	0.70	11.11
Fe	4.08	Fe2O3	14.83	1.17	14.83
<Total>	100.00		100.00		100.00

7619 6th Avenue NW, Seattle, WA 98117

www.labcor.net Phone: (206) 781-0155 (Office) Fax: (206) 789-8424 E-mail: mail@labcor.net

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	61.35	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	0.0000						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	14.83	Fe+3	0.0625			0.0625	0.0000				
MgO	12.71	Mg+2	2.8120			2.8120	0.0000				
MnO	0	Fe+2	1.8057			1.8057	0.0000				
CaO	11.11	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7833					1.7833	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.0000	C site	0.0000	B site	0	A site	0
			Total	8		4.6802		1.7833		0.0000	0.0000
			%Fill	100		93.6047		89.1627			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-86-15962

Values		Satisfied Conditions
(Ca,Na)@B	1.78	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.78	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.61	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

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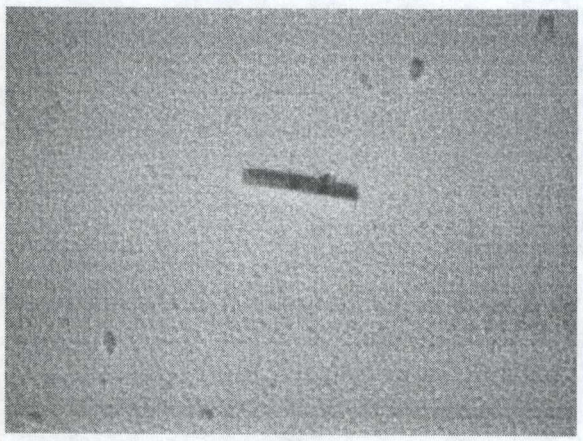
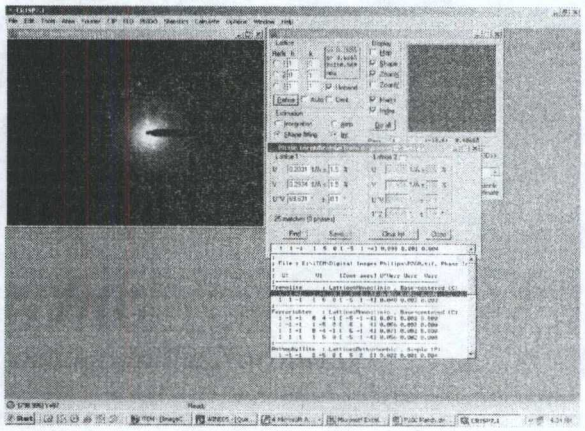
TREMOLITE

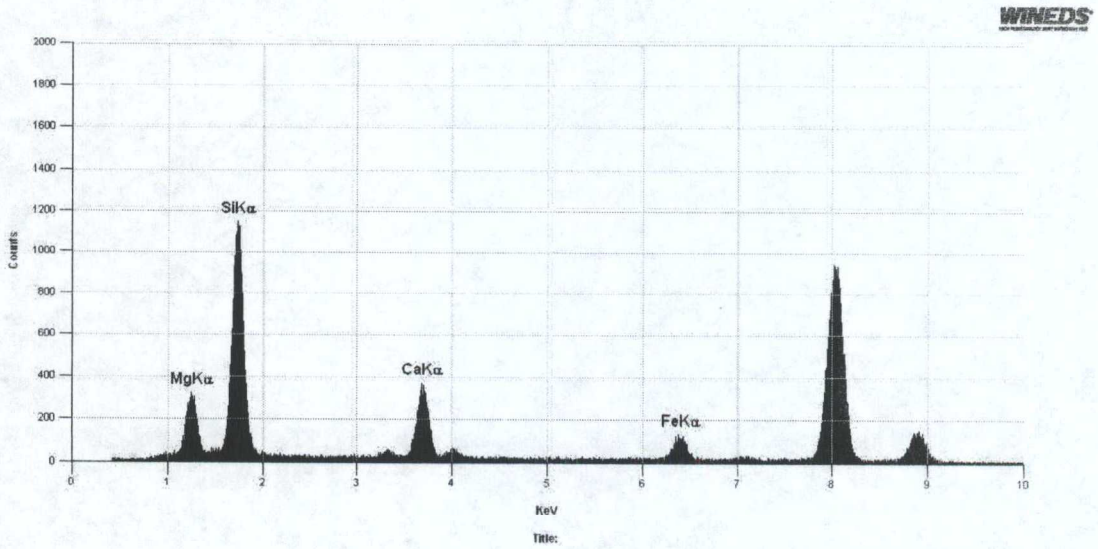
Neg#[260]; [Job# 041188-86]
[4/1/05] iTEM Image
Zone Axis [5 1 4]



13900 : 1

1µm





Quantitative Analysis Results - Standardless Analysis :
041188-86 EDS# 15963 Fri, Apr 01 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 9.72

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.79	MgO	18.51	1.19	18.51
Si	22.25	SiO2	62.68	1.89	62.68
Ca	4.50	CaO	11.83	0.71	11.83
Fe	1.87	Fe2O3	6.99	0.82	6.99
<Total>	100.00		100.00		100.00

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	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	62.68	Si+4	8.0000	8.0000							
Al2O3	0	Al+3	0.0000	0.0000	0.0000						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	6.99	Fe+3	0.0453			0.0453	0.0000				
MgO	18.51	Mg+2	3.8524			3.8524	0.0000				
MnO	0	Fe+2	0.8610			0.8610	0.0000				
CaO	11.83	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.8086					1.8086	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100.01		Excess	T site	0.0000	C site	0.0000	B site	0	A site	0
			Total	8		4.7586		1.8086		0.0000	0.0000
			%Fill	100		95.1729		90.4291			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 0401188-86-15963

Values		Satisfied Conditions
(Ca,Na)@B	1.81	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.81	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.82	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No.	B4771 S98 A1	**Volume (L)**	1244.76
Client Sample No.	SFBB-H2-2PG-100604	**No. of Grid Openings**	57
Description		**Filter Area (mm2)**	193
Analysis Date	3/24/2005	**Area Analyzed (mm2)**	0.826
Analyst	JH	**Analytical Sens. (struc/cc)**	0.000751
		Dectection Limit. (struc/cc)	0.00225

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	121.1	0.0751	0.0611 - 0.0914 (Poisson)	100
Total Asbestos Structures	121.1	0.0751	0.0611 - 0.0914 (Poisson)	100
Asbestos Structures > 5um	43.6	0.0270	0.0189 - 0.0374 (Poisson)	36
Asbestos Fibers and Bundles > 5um	26.6	0.0165	0.0104 - 0.0250	22
PCM Equivalent Fibers-US	31.5	0.0195	0.0128 - 0.0286	26
PCM Equivalent Structures-ISO	31.5	0.0195	0.0128 - 0.0286	26
PROTOCOL ASB STRUCS 5-10	3.6	0.00225	0.00 - 0.00582	3
PROTOCOL ASB STRUCS >10	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL ASB STRUCS TOTAL	3.6	0.00225	0.00 - 0.00582	3
PROTOCOL CHRYS STRUCS 5-10	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL CHRYS STRUCS >10	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL CHRYS STRUCS TOTAL	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL AMPH STRUCS 5-10	3.6	0.00225	0.00 - 0.00582	3
PROTOCOL AMPH STRUCS >10	0.0	<0.00225	0.00 - 0.00225	0
PROTOCOL AMPH STRUCS TOTAL	3.6	0.00225	0.00 - 0.00582	3
AHERA-like Total Structures 3:1	121.1	0.0751	0.0611 - 0.0914 (Poisson)	100
AHERA-like Asb Strucs >5 and 3:1	43.6	0.0270	0.0189 - 0.0374 (Poisson)	36
AHERA-like Asb Strucs 5 - 10 and 3:1	26.6	0.0165	0.0104 - 0.0250	22
AHERA-like Asb Strucs >10 and 3:1	17.0	0.0105	0.00575 - 0.0176	14
Total Other Amphibole Strucs 3:1	0.0	<0.00225	0.00 - 0.00225	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00225	0.00 - 0.00225	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00225	0.00 - 0.00225	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00225	0.00 - 0.00225	0

Correct

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A24	AQ	1	1	F	2.8	0.5	5.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	A14		NSD									
A	3	D4	CDQ	2		MD1-0	15	6	2.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	3	D4	CDQ		2	MF	0.5	0.08	6.2	1563	1198	Mg, Si Chrysotile Verified - JH	
A	3	D4	AQ	3	3	B	6	1.8	3.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	D4	CDQ	4	4	B	13	2	6.5			Mg, Si Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	4	D24		NSD									
A	5	D44	AQ	5	5	F	2.5	0.2	12			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	5	D44	CD	6	6	F	1	0.08	12			Chrysotile	TAS_AHRA
A	6	D42	CD	7		MD1-0	6	4	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D42	CD		7	MF	0.9	0.06	15			Chrysotile	
A	7	D22	AZQ	8	8	F	5.5	0.5	11	1564	1199	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 1 0] - JH	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	7	D22	AQ	9	9	B	3	1	3.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	7	D22	CD	10	10	F	0.9	0.07	13			Chrysotile	TAS_AHRA
A	7	D22	CD	11	11	F	0.5	0.07	7.1			Chrysotile	TAS_AHRA
A	8	D2	CD	12	12	F	1	0.15	6.7			Chrysotile	TAS_AHRA
A	8	D2	AQ	13	13	F	4.5	0.6	7.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	9	A12		NSD									
A	10	A32	AQ	14	14	B	2.6	0.7	3.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	10	A32	CD	15	15	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	10	A32	AQ	16	16	F	10	2.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	A40	AQ	17		MD1-0		4				Actinolite	TAS_AHRA
A	11	A40	AQ		17	MF	3	0.55	5.5			Mg, Al, Si, Ca, Fe Actinolite	
A	12	A20	CD	18	18	F	1.1	0.06	18			Chrysotile	TAS_AHRA
A	12	A20	CD	19	19	F	4.8	0.07	69			Chrysotile	TAS_AHRA
A	13	A10		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	14	D10	CD	20		MD1-0	6	5	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	14	D10	CD		20	MF	3.5	0.07	50			Chrysotile	
A	15	D30	CD	21	21	F	1.2	0.06	20			Chrysotile	TAS_AHRA
A	15	D30	CD	22	22	F	2.4	0.1	24			Chrysotile	TAS_AHRA
A	15	D30	CD	23	23	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	15	D30	CD	24	24	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	16	D40	CD	25	25	F	0.9	0.08	11			Chrysotile	TAS_AHRA
A	17	C41	CD	26	26	F	3	0.07	43			Chrysotile	TAS_AHRA
A	18	C21	AQ	27	27	F	6.5	1.2	5.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	18	C21	CD	28	28	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
A	19	C1	CD	29		MD1-0	8	5.5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	C1	CD		29	MB	2.5	0.7	3.6			Chrysotile	
A	19	C1	CD	30	30	F	1.1	0.08	14			Chrysotile	TAS_AHRA
A	19	C1	CD	31	31	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	19	C1	AQ	32	32	F	2	0.3	6.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	20	B11	CD	33	33	F	1.5	0.07	21			Chrysotile	TAS_AHRA
A	20	B11	AQ	34	34	F	8	1	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	20	B11	CD	35	35	F	1	0.07	14			Chrysotile	TAS_AHRA
A	20	B11	AQ	36	36	F	4	1	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	21	B31	CD	37		MD1-0	2.7	2	1.4			Chrysotile	TAS_AHRA
A	21	B31	CD		37	MF	0.5	0.06	8.3			Chrysotile	
A	22	B41	CD	38	38	F	1.7	0.07	24			Chrysotile	TAS_AHRA
A	22	B41	CD	39	39	F	0.9	0.07	13			Chrysotile	TAS_AHRA
A	23	B43		NSD									
A	24	B23	AQ	40		MD1-0	7.5	3	2.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	24	B23	AQ		40	MF	4.9	0.7	7.0			Mg, Al, Si, Ca, Fe Actinolite	
A	24	B23	CD	41	41	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	24	B23	CD	42	42	F	1	0.06	17			Chrysotile	TAS_AHRA
A	25	B3		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	26	C3	AQ	43	43	B	13	2.7	4.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	26	C3	AQ	44	44	F	4	0.7	5.7			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	27	C23	AQ	45	45	B	11	2.4	4.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	27	C23	AQ	46	46	B	19	3	6.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	28	C43	AQ	47	47	F	7.5	0.5	15			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	C44	CD	48	48	F	1	0.08	12			Chrysotile	TAS_AHRA
A	29	C44	AQ	49	49	F	6.5	0.5	13			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	29	C44	CD	50	50	F	1	0.08	12			Chrysotile	TAS_AHRA
A	29	C44	CD	51	51	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	30	C24		NSD									
B	31	B24	CD	52		MD1-0	3.5	1	3.5			Chrysotile	TAS_AHRA
B	31	B24	CD		52	MF	2.5	0.07	36			Chrysotile	
B	31	B24	AQ	53	53	F	9.8	2.7	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	B24	AQ	54	54	F	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	31	B24	CD	55	55	F	1	0.07	14			Chrysotile	TAS_AHRA
B	31	B24	CD	56	56	F	1	0.06	17			Chrysotile	TAS_AHRA
B	32	B4	AQ	57	57	B	1.5	0.6	2.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	32	B4	CD	58	58	F	1.3	0.07	19			Chrysotile	TAS_AHRA
B	33	C14		NSD									
B	34	C42	AQ	59	59	F	12	2.2	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	34	C42	CD	60	60	B	2.5	0.2	12			Chrysotile	TAS_AHRA
B	34	C42	CD	61	61	F	0.5	0.07	7.1			Chrysotile	TAS_AHRA
B	35	C22	CD	62		MD1-0	11	4.5	2.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA

B < 3:1

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	35	C22	CD		62	MB	1.5	0.1	15			Chrysotile	
B	35	C22	CD	63		MD1-0	4.3	2.6	1.7			Chrysotile	TAS_AHRA
B	35	C22	CD		63	MF	2.3	0.06	38			Chrysotile	
B	35	C22	AQ	64	64	B	24	3	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	C2	CD	65	65	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	36	C2	AQ	66	66	B	9.9	1.5	6.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	36	C2	AQ	67	67	B	12.5	3	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	37	B2		NSD									
B	38	B22	AQ	68	68	B	17	3.5	4.9			Mg, Al, Si, Ca, Fe Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	39	B42		NSD									
B	40	B40	CD	69	69	B	2.5	0.15	17			Chrysotile	TAS_AHRA
B	41	B20	CD	70	70	F	1	0.08	12			Chrysotile	TAS_AHRA
B	42	C10	CD	71		MD1-0	1.3	1	1.3			Chrysotile	TAS_AHRA
B	42	C10	CD		71	MF	0.6	0.15	4.0			Chrysotile	
B	43	C30	AQ	72	72	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	43	C30	AQ	73	73	F	3.5	0.6	5.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	44	C40	AQ	74	74	F	12	3.5	3.4			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	44	C40	CD	75	75	F	2.4	0.07	34			Chrysotile	TAS_AHRA
B	44	C40	CD	76	76	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	44	C40	CD	77	77	F	0.55	0.07	7.9			Chrysotile	TAS_AHRA
B	45	D41	CD	78		MD1-0	7	6	1.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	45	D41	CD		78	MF	1.2	0.08	15			Chrysotile	
B	45	D41	CD	79	79	F	1.5	0.2	7.5			Chrysotile	TAS_AHRA
B	45	D41	CD	80	80	F	1.1	0.06	18			Chrysotile	TAS_AHRA
B	45	D41	AQ	81	81	F	5.5	1.2	4.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	D21	CD	82		MD1-0	6	2.5	2.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

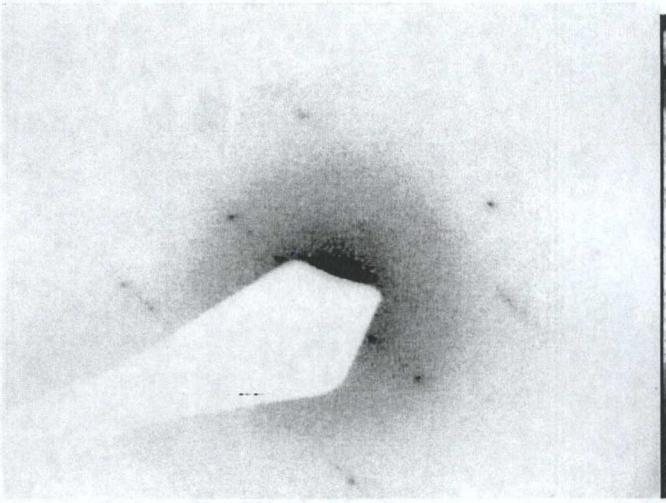
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

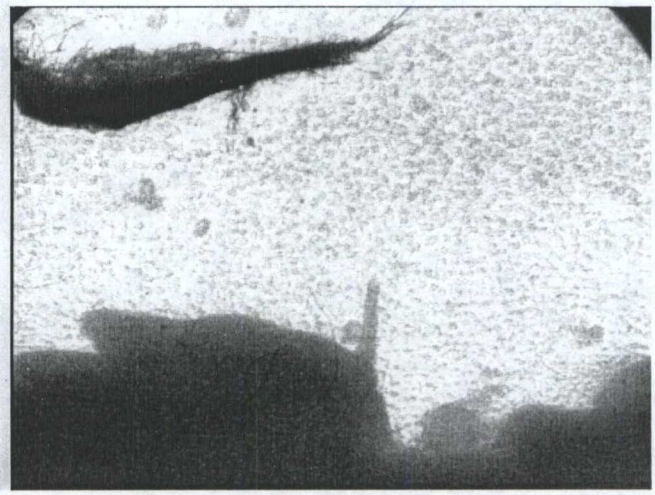
Sample No.: SFBB-H2-2PG-100604 *Lab/Cor Sample No.:* B4771 S98 A1

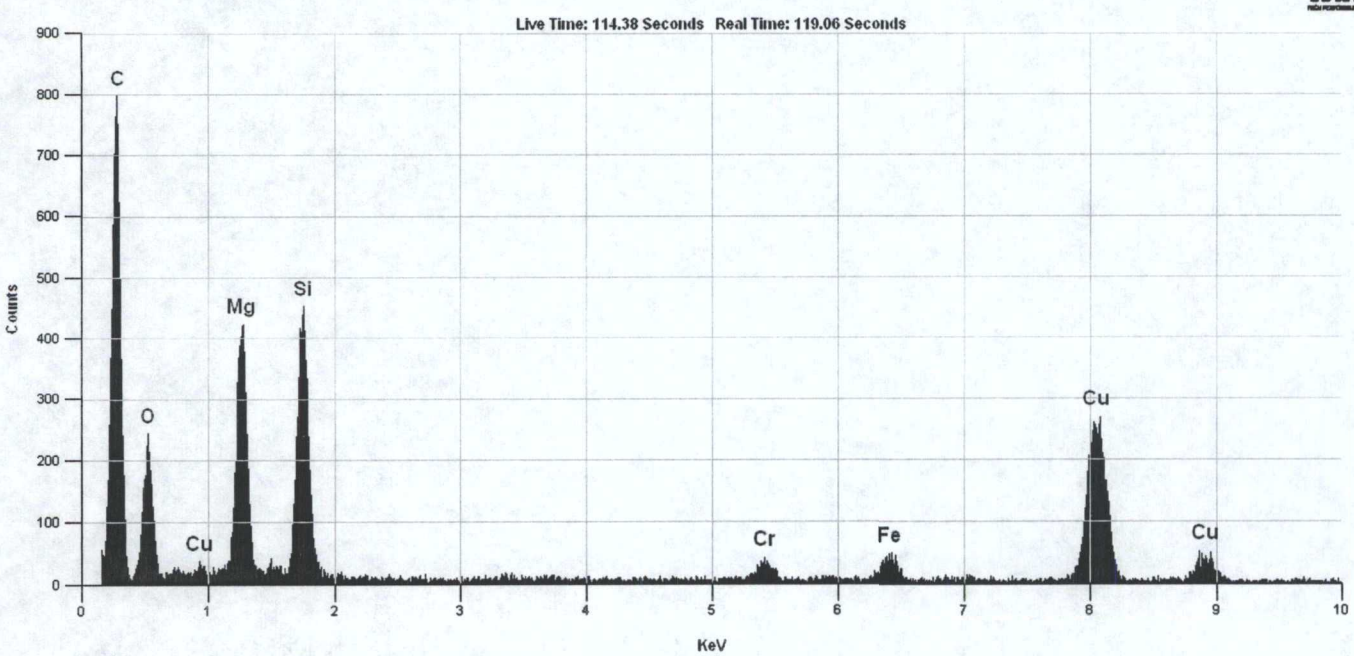
Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	46	D21	CD		82	MB	4	0.3	13			Mg, Al, Si, Ca, Fe Chrysotile	
B	47	D1	AQ	83	83	F	11	3	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	48	A11		NSD									
B	49	A31	CD	84	84	F	0.7	0.07	10			Chrysotile	TAS_AHRA
B	50	A41	AQ	85	85	F	3	0.7	4.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	50	A41	CD	86		MD1-0	2.5	1.5	1.7			Chrysotile	TAS_AHRA
B	50	A41	CD		86	MF	2	0.07	29			Chrysotile	
B	51	A43	AQ	87	87	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	52	A23	CD	88	88	F	1.2	0.07	17			Chrysotile	TAS_AHRA
B	52	A23	CD	89	89	F	2.5	0.07	36			Chrysotile	TAS_AHRA
B	53	A3		NSD									
B	54	D13	AQ	90	90	F	6	0.8	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	54	D13	AQ	91	91	F	8	2.5	3.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	55	D33		NSD									
B	56	D43	AQ	92	92	F	8	2.2	3.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	56	D43	CD	93	93	F	0.7	0.08	8.8			Chrysotile	TAS_AHRA
B	56	D43	CD	94	94	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
B	56	D43	AQ	95	95	F	15	2.5	6.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	57	D34	CD	96	96	F	0.8	0.2	4.0			Chrysotile	TAS_AHRA
B	57	D34	CD	97	97	F	0.6	0.15	4.0			Chrysotile	TAS_AHRA
B	57	D34	AQ	98	98	F	17	2.4	7.1			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	57	D34	CD	99	99	F	1	0.15	6.7			Chrysotile	TAS_AHRA
B	57	D34	AQ	100	100	B	7.5	1.8	4.2			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

CHRYSOTILE
041188-98, Neg#J1563



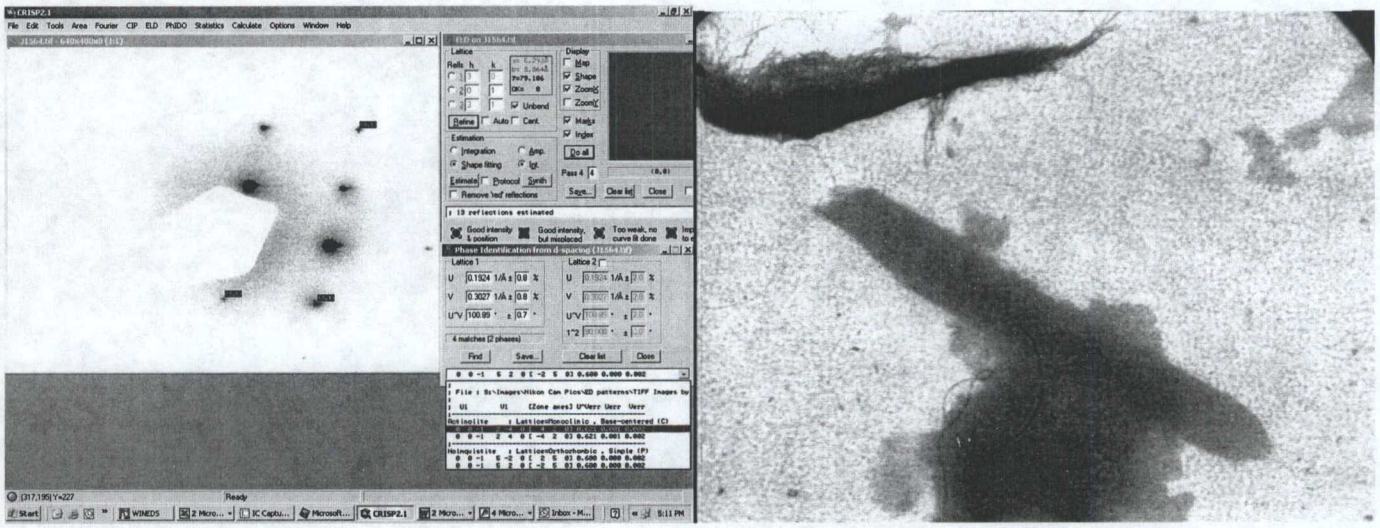


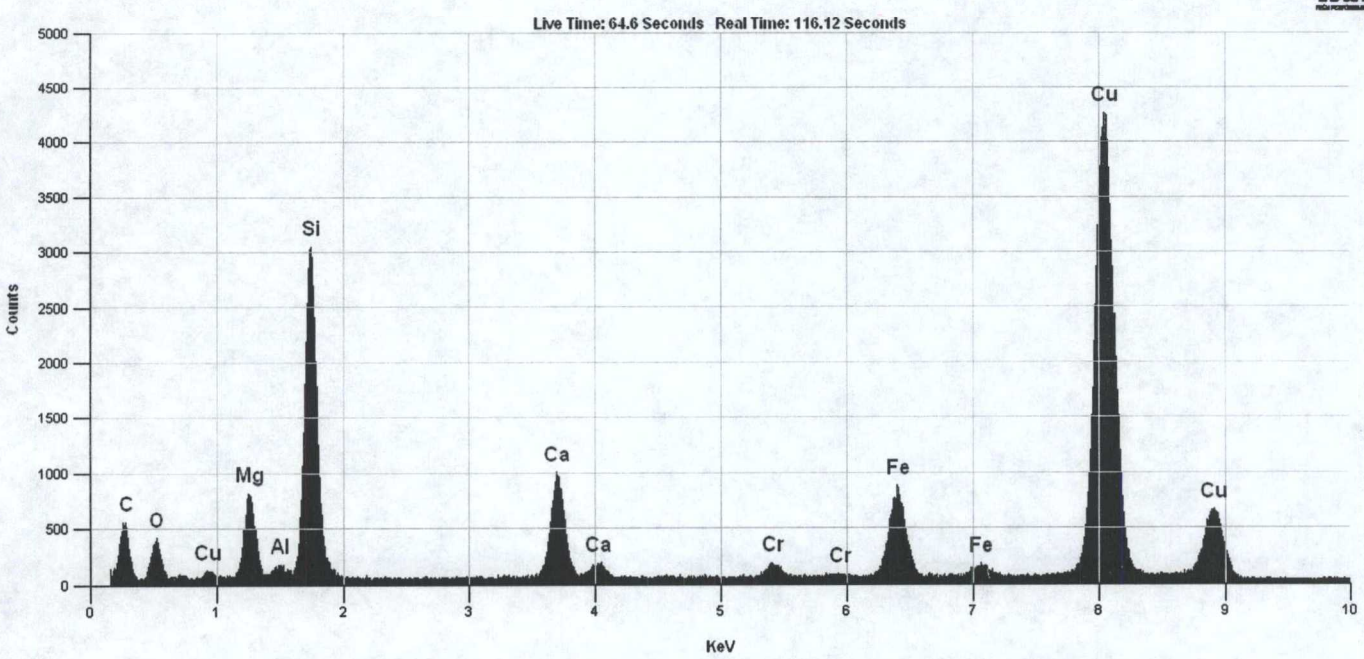


Quantitative Analysis Results - Standardless Analysis :
041188-98-SP1198 Thu, Mar 24 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 296.88
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	19.95	MgO	39.33	1.12	39.33
Si	19.00	SiO2	55.84	1.59	55.84
Fe	1.24	Fe2O3	4.83	0.73	4.83
<Total>	100.00		100.00		100.00

ACTINOLITE
[2 1 0] Zone
041188-98, Neg#J1564





Title: 041188-98-SP1199 Time: 4:52:35 PM Date: Thu, Mar 24 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
041188-98-SP1199 Thu, Mar 24 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 100.07
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	0.42	Na2O	0.58	0.13	0.58
Mg	5.83	MgO	10.50	0.22	10.50
Al	0.63	Al2O3	1.43	0.10	1.43
Si	20.88	SiO2	56.03	0.59	56.03
Ca	5.90	CaO	14.78	0.33	14.78
Fe	4.68	Fe2O3	16.68	0.49	16.68
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	56.03	Si+4	8.0000	8.0000							
Al2O3	1.43	Al+3	0.2435	0.0000	**0.2435**						
TiO2	0	Ti+4	0.0000	0.0000	**0.0000**						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	16.68	Fe+3	0.0194			0.0194	0.0000				
MgO	10.5	Mg+2	2.2469			2.2469	**0.0000**				
MnO	0	Fe+2	1.9802			1.9802	**0.0000**				
CaO	14.78	Mn+2	0.0000			0.0000	**0.0000**				
Na2O	0.58	Ca+2	2.2712					2.0000	0.2712		
K2O	0	Na+	0.1665					0.0000	**0.1665**	0.1665	0.0000
		K+	0.0000							0.0000	0.0000
Total	**100**		**Excess**	T site	**0.2435**	C site	**0.0000**	B site	**0.4376533**	A site	**0**
			Total	**8**		**4.4900**		**2.0000**		**0.1665**	**0.0000**
			%Fill	**100**		**89.8004**		**100**			

Prefix none
Name actinolite
Modifier none
Group Calcic Amphibole

Sample # **041188-98-1199**

Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.17	Si > 7.5
Mg/(Mg+Fe2)	0.53	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S101 A1
Client Sample No. SFBB-H2-4PG-100604
Description
Analysis Date 3/25/2005
Analyst JH

Volume (L) 1215.88
No. of Grid Openings 56
Filter Area (mm2) 193
Area Analyzed (mm2) 0.811
Analytical Sens. (struc/cc) 0.00156
Dectection Limit. (struc/cc) 0.00468

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	124.5	0.158	0.127 - 0.190 (Poisson)	101
Total Asbestos Structures	124.5	0.158	0.127 - 0.190 (Poisson)	101
Asbestos Structures > 5um	32.0	0.0407	0.0266 - 0.0596	26
Asbestos Fibers and Bundles > 5um	19.7	0.0250	0.0143 - 0.0407	16
PCM Equivalent Fibers-US	21.0	0.0266	0.0155 - 0.0426	17
PCM Equivalent Structures-ISO	22.2	0.0282	0.0167 - 0.0445	18
PROTOCOL ASB STRUCS 5-10	2.5	0.00313	0.00 - 0.00986	2
PROTOCOL ASB STRUCS >10	1.2	0.00156	0.00 - 0.00742	1
PROTOCOL ASB STRUCS TOTAL	3.7	0.00469	0.00 - 0.0121	3
PROTOCOL CHRYS STRUCS 5-10	1.2	0.00156	0.00 - 0.00742	1
PROTOCOL CHRYS STRUCS >10	1.2	0.00156	0.00 - 0.00742	1
PROTOCOL CHRYS STRUCS TOTAL	2.5	0.00313	0.00 - 0.00986	2
PROTOCOL AMPH STRUCS 5-10	1.2	0.00156	0.00 - 0.00742	1
PROTOCOL AMPH STRUCS >10	0.0	<0.00468	0.00 - 0.00468	0
PROTOCOL AMPH STRUCS TOTAL	1.2	0.00156	0.00 - 0.00742	1
AHERA-like Total Structures 3:1	124.5	0.158	0.127 - 0.190 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	32.0	0.0407	0.0266 - 0.0596	26
AHERA-like Asb Strucs 5 - 10 and 3:1	24.6	0.0313	0.0191 - 0.0483	20
AHERA-like Asb Strucs >10 and 3:1	7.4	0.00939	0.00345 - 0.0204	6
Total Other Amphibole Strucs 3:1	0.0	<0.00468	0.00 - 0.00468	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00468	0.00 - 0.00468	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00468	0.00 - 0.00468	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00468	0.00 - 0.00468	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	A34	AZQ	1	1	F	8	0.6	13	1565	1200	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [3 0 2] - JH	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	A34	AQ	2	2	F	6	0.6	10			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	1	A34	AQ	3	3	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	2	A14		NSD									
A	3	D4	CDQ	4	4	F	0.9	0.08	11	1566	1201	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	D24	AQ	5	5	F	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	4	D24	AQ	6	6	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	4	D24	CDQ	7	7	F	1.5	0.08	19			Mg, Si Chrysotile	TAS_AHRA
A	5	D44	CDQ	8		MD1-0	12	8	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	5	D44	CDQ		8	MF	2.5	0.1	25			Mg, Si Chrysotile	
A	5	D44	AQ	9	9	F	2.5	0.5	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	D42	AQ	10		MD1-0	8	4	2.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	6	D42	AQ		10	MF	3.2	0.45	7.1			Mg, Al, Si, Ca, Fe Actinolite	
A	6	D42	CDQ	11	11	B	2	0.2	10			Mg, Si Chrysotile	TAS_AHRA
A	7	D22		NSD									
A	8	D2	CDQ	12	12	F	2.6	0.1	26			Mg, Si Chrysotile	TAS_AHRA
A	8	D2	CDQ	13	13	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	8	D2	AQ	14	14	F	7.5	1	7.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	9	A12		NSD									
A	10	A32	CD	15	15	F	0.9	0.06	15			Chrysotile	TAS_AHRA
A	10	A32	CD	16	16	F	1.2	0.08	15			Chrysotile	TAS_AHRA
A	10	A32	CD	17	17	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	11	A42	CD	18	18	B	7.6	0.25	30			Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	12	A40	CD	19	19	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	12	A40	CD	20	20	B	1.2	0.25	4.8			Chrysotile	TAS_AHRA
A	12	A40	CD	21	21	F	1.5	0.08	19			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	A20	CD	22	22	B	4	0.2	20			Chrysotile	TAS_AHRA
A	14	A10	AQ	23	23	F	4.5	0.4	11			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	14	A10	CD	24		MD1-0	2.7	2.7	1.0			Chrysotile	TAS_AHRA
A	14	A10	CD		24	MF	1.1	0.05	22			Chrysotile	
A	15	D10	AQ	25	25	F	7.5	2	3.8			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	15	D10	CD	26	26	F	1	0.08	12			Chrysotile	TAS_AHRA
A	15	D10	CD	27	27	F	0.6	0.06	10			Chrysotile	TAS_AHRA
A	16	D30	CD	28	28	F	1	0.06	17			Chrysotile	TAS_AHRA
A	17	D40		NSD									
A	18	C21		NSD									
A	19	C1	CD	29	29	F	0.6	0.07	8.6			Chrysotile	TAS_AHRA
A	19	C1	CD	30	30	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	19	C1	CD	31	31	F	1.5	0.06	25			Chrysotile	TAS_AHRA
A	19	C1	CD	32	32	F	2.2	0.2	11			Chrysotile	TAS_AHRA
A	19	C1	CD	33	33	F	1.2	0.06	20			Chrysotile	TAS_AHRA
A	20	B11	AQ	34	34	F	5.2	0.3	17			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	21	B31	CD	35	35	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	21	B31	CD	36	36	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	21	B31	CD	37	37	F	0.7	0.07	10			Chrysotile	TAS_AHRA
A	22	B41	CD	38	38	F	4	0.08	50			Chrysotile	TAS_AHRA
A	22	B41	CD	39	39	F	1	0.07	14			Chrysotile	TAS_AHRA
A	22	B41	CD	40	40	F	1	0.15	6.7			Chrysotile	TAS_AHRA
A	22	B41	AQ	41	41	F	3.9	0.6	6.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	23	B24	CD	42		MD1-0	2.8	1.5	1.9			Chrysotile	TAS_AHRA
B	23	B24	CD		42	MF	1.5	0.07	21			Chrysotile	
B	23	B24	AQ	43	43	F	2.6	0.26	10			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	B4		NSD									
B	25	C14		NSD									
B	26	C34	AQ	44	44	F	8	1.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	26	C34	AQ	45	45	F	3.5	1	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	27	C44	AQ	46	46	B	3.5	1.1	3.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	28	C42	AQ	47	47	B	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	28	C42	AQ	48	48	F	2.5	0.6	4.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	28	C42	CD	49	49	F	1.5	0.1	15			Chrysotile	TAS_AHRA
B	29	C22	CD	50	50	F	0.7	0.07	10			Chrysotile	TAS_AHRA
B	30	C2	AQ	51	51	B	10.5	2.3	4.6			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	31	B12	CD	52	52	B	4	0.2	20			Chrysotile	TAS_AHRA
B	31	B12	CD	53	53	F	1	0.07	14			Chrysotile	TAS_AHRA
B	31	B12	CD	54		MD1-0	6	4	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	B12	CD		54	MF	2.4	0.2	12			Mg, Al, Si, Ca, Fe Chrysotile	
B	32	B32	CD	55	55	F	0.6	0.06	10			Chrysotile	TAS_AHRA
B	32	B32	CD	56	56	F	0.8	0.2	4.0			Chrysotile	TAS_AHRA
B	33	A30	AQ	57	57	F	5.5	1.5	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	33	A30	AQ	58	58	F	3	0.9	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	33	A30	CD	59	59	F	1.8	0.07	26			Chrysotile	TAS_AHRA
B	34	A10	AQ	60	60	F	4.9	0.4	12			Actinolite	TAS_AHRA
B	35	D10	AQ	61	61	F	7.3	2	3.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	35	D10	CD	62	62	F	1	0.07	14			Chrysotile	TAS_AHRA
B	36	D30	AQ	63		MD1-0	25	15	1.7			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	36	D30	AQ		63	MB	4	0.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	
B	36	D30	CD	64	64	F	1.1	0.07	16			Chrysotile	TAS_AHRA
B	37	D40	AQ	65	65	F	2	0.5	4.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	38	D42	CD	66	66	F	0.7	0.07	10			Chrysotile	TAS_AHRA
B	38	D42	AQ	67		MD1-0	9	5	1.8			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	38	D42	AQ		67	MF	3	0.6	5.0			Mg, Al, Si, Ca, Fe Actinolite	
B	39	D22	CD	68	68	F	1	0.1	10			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	39	D22	AQ	69	69	F	13.5	1.2	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	40	D2	AQ	70	70	F	6.5	0.7	9.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	40	D2	AQ	71		MD1-0	5.8	1.2	4.8			Actinolite	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	40	D2	AQ		71	MF	3	0.38	7.9			Mg, Al, Si, Ca, Fe Actinolite	
B	40	D2	CD	72	72	F	2	0.1	20			Chrysotile	TAS_AHRA
B	40	D2	CD	73	73	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	41	A12		NSD									
B	42	A32	CD	74	74	F	3.5	0.1	35			Chrysotile	TAS_AHRA
C	43	C44	CD	75	75	F	1.5	0.1	15			Chrysotile	TAS_AHRA
C	43	C44	CD	76		MD1-0	1.8	0.6	3.0			Chrysotile	TAS_AHRA
C	43	C44	CD		76	MF	1.1	0.1	11			Chrysotile	
C	44	C24	CMQ	77	77	F	1.8	0.12	15			Mg, Si Chrysotile	TAS_AHRA
C	44	C24	CD	78	78	F	1.8	0.12	15			Chrysotile	TAS_AHRA
C	45	C4	AQ	79	79	F	3.5	0.45	7.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	45	C4	AQ	80	80	F	6.8	1.5	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	45	C4	CD	81	81	B	3	0.5	6.0			Chrysotile	TAS_AHRA
C	45	C4	CD	82	82	F	0.8	0.08	10			Chrysotile	TAS_AHRA
C	46	B14	AQ	83	83	F	3.7	0.6	6.2			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	46	B14	AQ	84	84	F	3.5	0.7	5.0			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	47	B34	AQ	85	85	F	9	2	4.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	48	B42	CD	86		MD1-0	5.5	3.8	1.4			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	48	B42	CD		86	MF	1.5	0.1	15			Chrysotile	
C	48	B42	CD	87	87	F	3.5	0.12	29			Chrysotile	TAS_AHRA
C	49	B22	CD	88	88	F	1.8	0.1	18			Chrysotile	TAS_AHRA
C	49	B22	CD	89	89	B	4	0.2	20			Chrysotile	TAS_AHRA
C	50	B2	CD	90		MD1-0	5.2	0.8	6.5			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

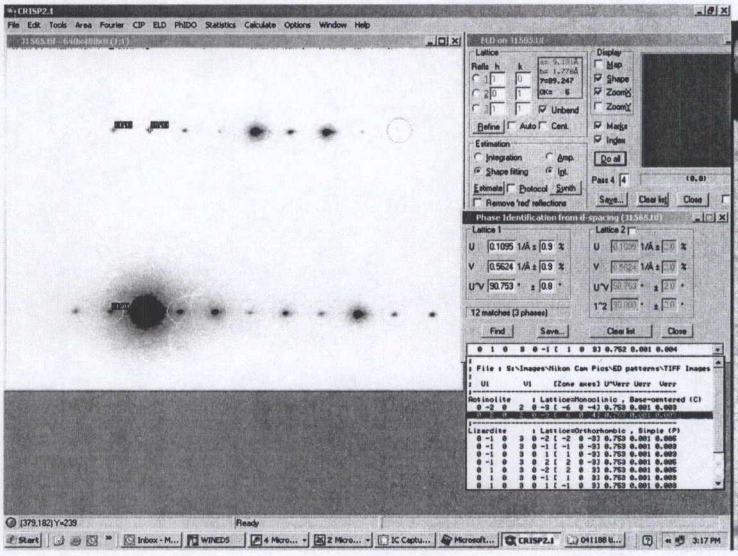
TEM ASBESTOS STRUCTURE COUNT - RAW DATA

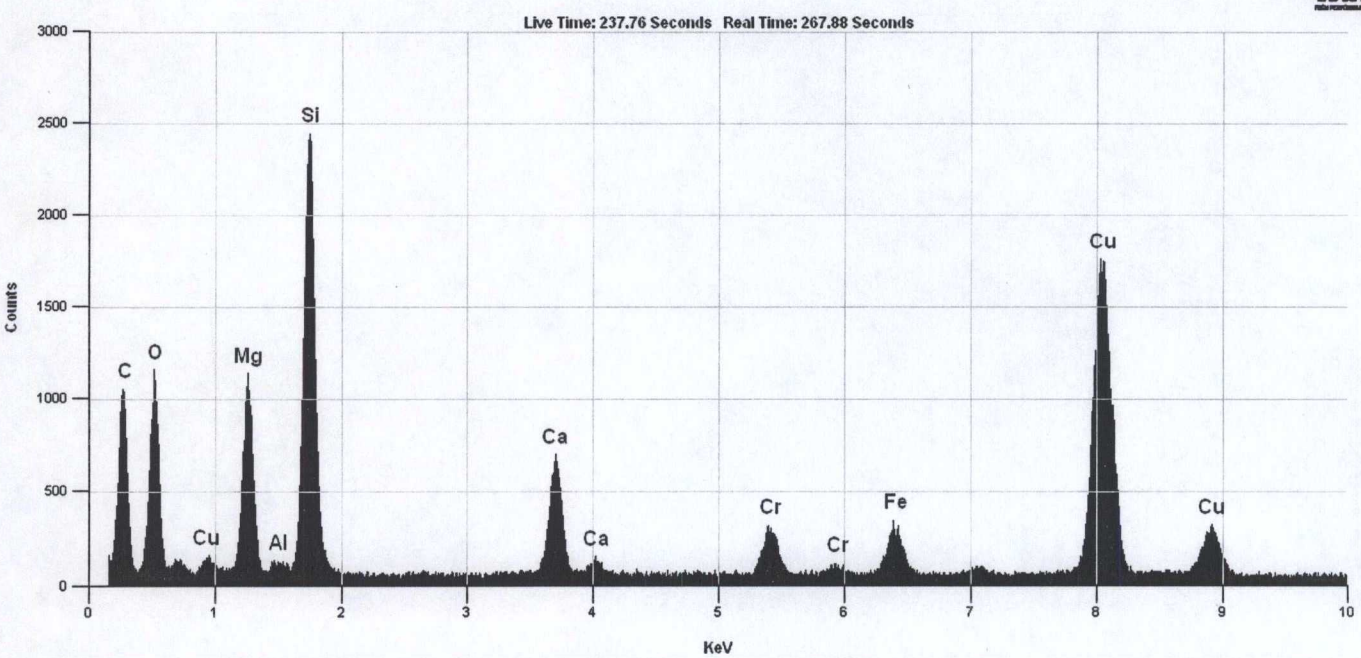
Sample No.: SFBB-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S101 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
C	50	B2	CD		90	MF	4.5	0.11	41			Chrysotile	
C	50	B2	CD	91	91	F	1	0.1	10			Chrysotile	TAS_AHRA
C	51	C12	CD	92		MD1-1	16	5	3.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	51	C12	CD		92	MB	16	0.35	46			Chrysotile	AFB>5, PCMEF-US, PSAS >10, PSAS TOT, PCAS >10, PCAS TOT
C	52	C32	CD	93		MD1-0	1.8	0.7	2.6			Chrysotile	TAS_AHRA
C	52	C32	CD		93	MF	0.8	0.1	8.0			Chrysotile	
C	53	C40	CDQ	94	94	B	3.5	0.35	10			Mg, Si Chrysotile	TAS_AHRA
C	54	C20	AQ	95	95	F	4.8	1	4.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
C	54	C20	CD	96		MD1-0	10	4	2.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
C	54	C20	CD		96	MB	4.2	0.4	10			Chrysotile	
C	54	C20	CD	97	97	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
C	54	C20	CD	98	98	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	55	B20	CD	99	99	F	1.2	0.1	12			Chrysotile	TAS_AHRA
C	56	B40	AQ	100	100	F	12	1.5	8.0			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
C	56	B40	CMQ	101	101	F	1.8	0.15	12			Mg, Si Chrysotile	TAS_AHRA

ACTINOLITE
[3 0 2] Zone
041188-101, Neg#J1565





Title: 041188-101-SP1200 Time: 2:39:58 PM Date: Sat, Mar 26 2005 Accelerating Voltage: 100 KV Take Off Angle: 35 Degrees

Quantitative Analysis Results - Standardless Analysis :
Spectrum8 041188-101-SP1200 Sat, Mar 26 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 171.90
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	10.44	MgO	19.59	0.41	19.59
Al	0.08	Al2O3	0.18	0.13	0.18
Si	21.17	SiO2	59.20	0.87	59.20
Ca	5.15	CaO	13.43	0.46	13.43
Fe	2.04	Fe2O3	7.59	0.56	7.59
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	59.2	Si+4	8.0000	8.0000							
Al2O3	0.18	Al+3	0.0374	0.0000	0.0374						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	7.59	Fe+3	0.0132			0.0132	0.0000				
MgO	19.59	Mg+2	4.0037			4.0037	0.0000				
MnO	0	Fe+2	0.8688			0.8688	0.0000				
CaO	13.43	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.9773					1.9773	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	99.99		Excess	T site	0.0374	C site	0.0000	B site	0	A site	0
			Total	8		4.9231		1.9773		0.0000	0.0000
			%Fill	100		98.4622		98.8639			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 0401188-101-1565

Values		Satisfied Conditions
(Ca,Na)@B	1.98	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.98	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.82	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S103 A1
Client Sample No. SFBB-H2-5PG-100604
Description
Analysis Date 3/28/2005
Analyst KM

Volume (L) 1247.88
No. of Grid Openings 27
Filter Area (mm2) 193
Area Analyzed (mm2) 0.391
Analytical Sens. (struc/cc) 0.00158
Dectection Limit. (struc/cc) 0.00473

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	260.7	0.161	0.129 - 0.192 (Poisson)	102
Total Asbestos Structures	258.2	0.160	0.129 - 0.192 (Poisson)	101
Asbestos Structures > 5um	53.7	0.0332	0.0206 - 0.0508	21
Asbestos Fibers and Bundles > 5um	35.8	0.0221	0.0121 - 0.0371	14
PCM Equivalent Fibers-US	28.1	0.0174	0.00868 - 0.0311	11
PCM Equivalent Structures-ISO	20.4	0.0127	0.00546 - 0.0249	8
PROTOCOL ASB STRUCS 5-10	15.3	0.00949	0.00348 - 0.0207	6
PROTOCOL ASB STRUCS >10	0.0	<0.00473	0.00 - 0.00473	0
PROTOCOL ASB STRUCS TOTAL	15.3	0.00949	0.00348 - 0.0207	6
PROTOCOL CHRYS STRUCS 5-10	10.2	0.00633	0.00172 - 0.0162	4
PROTOCOL CHRYS STRUCS >10	0.0	<0.00473	0.00 - 0.00473	0
PROTOCOL CHRYS STRUCS TOTAL	10.2	0.00633	0.00172 - 0.0162	4
PROTOCOL AMPH STRUCS 5-10	5.1	0.00316	0.00 - 0.00996	2
PROTOCOL AMPH STRUCS >10	0.0	<0.00473	0.00 - 0.00473	0
PROTOCOL AMPH STRUCS TOTAL	5.1	0.00316	0.00 - 0.00996	2
AHERA-like Total Structures 3:1	258.2	0.160	0.129 - 0.192 (Poisson)	101
AHERA-like Asb Strucs >5 and 3:1	53.7	0.0332	0.0206 - 0.0508	21
AHERA-like Asb Strucs 5 - 10 and 3:1	46.0	0.0285	0.0169 - 0.0450	18
AHERA-like Asb Strucs >10 and 3:1	7.7	0.00474	0.00 - 0.0123	3
Total Other Amphibole Strucs 3:1	2.6	0.00158	0.00 - 0.00750	1
Other Amphibole Strucs >5 and 3:1	0.0	<0.00473	0.00 - 0.00473	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00473	0.00 - 0.00473	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00473	0.00 - 0.00473	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B24	CD	1	1	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	1	B24	CD	2	2	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	1	B24	CD	3	3	F	1	0.1	10			Chrysotile	TAS_AHRA
A	2	B4	CMQ	4		MD1-0	5.5	2	2.8			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	2	B4	CMQ		4	MF	4.5	0.1	45			Mg, Si Chrysotile	
A	2	B4	CD	5	5	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
A	2	B4	AQ	6	6	F	3.8	0.8	4.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	3	C43	CD	7	7	F	5.2	0.1	52			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	C43	AQ	8		MD1-0	7	6	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	C43	AQ		8	MF	4.2	0.2	21			Mg, Al, Si, Ca, Fe Actinolite	
A	3	C43	AQ	9		MD1-1	8	7	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	C43	AQ		9	MF	6.8	1.5	4.5			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	3	C43	AQ	10		MD1-0	8	6	1.3			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	3	C43	AQ		10	MF	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	
A	4	C23	AQ	11	11	F	4.2	1.2	3.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	4	C23	CDQ	12	12	F	0.7	0.1	7.0	1567	1202	Mg, Si Chrysotile Verified - KM	TAS_AHRA
A	4	C23	AZQ	13	13	F	6	0.35	17	1569	1203	Mg, Al, Si, Ca, Fe Actinolite Zone Axis [2 0 -3] - KM	AS>5, AFB>5, PCMEF-US, PCMES-ISO, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	C23	CD	14		MD1-0	8.5	4	2.1			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	4	C23	CMQ		14	MF	4.5	0.12	38			Mg, Si Chrysotile	
A	5	C3	CD	15	15	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	6	B13	CDQ	16	16	B	3.1	0.2	15			Mg, Si Chrysotile	TAS_AHRA
A	6	B13	AQ	17	17	F	4.8	0.7	6.9			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	6	B13	CD	18		MD1-0	2.2	0.8	2.8			Chrysotile	TAS_AHRA
A	6	B13	CD		18	MF	0.7	0.1	7.0			Chrysotile	
A	6	B13	CD	19	19	F	0.8	0.12	6.7			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	6	B13	AQ	20	20	F	11	1	11			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	6	B13	CD	21	21	F	0.8	0.08	10			Chrysotile	TAS_AHRA
A	7	B21	CD	22	22	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	7	B21	CD	23	23	F	0.6	0.1	6.0			Chrysotile	TAS_AHRA
A	7	B21	CD	24	24	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	7	B21	CD	25	25	F	4	0.1	40			Chrysotile	TAS_AHRA
A	8	B1	CD	26		MD1-0	2.5	1.8	1.4			Chrysotile	TAS_AHRA
A	8	B1	CD		26	MF	0.6	0.1	6.0			Chrysotile	
A	8	B1	CD	27	27	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	8	B1	CD	28	28	F	1.8	0.11	16			Chrysotile	TAS_AHRA
A	9	C11	CD	29		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
A	9	C11	CD		29	MF	1.5	0.1	15			Chrysotile	
A	10	C31	CD	30	30	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	10	C31	CD	31		MD1-0	6.5	3	2.2			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	10	C31	CD		31	MF	1.8	0.1	18			Chrysotile	
A	10	C31	OZQ	32		MD1-0	3.1	1	3.1			Winchite	TOS_AHRA
A	10	C31	OZQ		32	MF	2	0.4	5.0	1570	1204	Na, Mg, Al, Si, Ca, Fe Winchite Zone Axis [9 1 -6] - KM	
A	11	A41	AQ	33	33	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	11	A41	CMQ	34	34	B	4.5	0.68	6.6			Mg, Si Chrysotile	TAS_AHRA
A	11	A41	CD	35	35	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	12	A21	AQ	36		MD1-0	1.7	0.6	2.8			Actinolite	TAS_AHRA
A	12	A21	AQ		36	MF	0.8	0.2	4.0			Mg, Al, Si, Ca, Fe Actinolite	
A	12	A21	CD	37	37	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
A	12	A21	CD	38	38	F	0.7	0.1	7.0			Chrysotile	TAS_AHRA
A	12	A21	CD	39	39	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	12	A21	CD	40	40	F	1.2	0.12	10			Chrysotile	TAS_AHRA
A	13	A1	CD	41		MD1-1	7	1.2	5.8			Chrysotile	AS>5, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	13	A1	CD		41	MF	7	0.1	70			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
A	13	A1	CD	42		MD1-0	4	2.5	1.6			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	13	A1	CD		42	MF	3.5	0.12	29			Chrysotile	
A	13	A1	CD	43	43	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	13	A1	CD	44	44	B	4.5	0.8	5.6			Chrysotile	TAS_AHRA
A	13	A1	CD	45	45	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	13	A1	CD	46	46	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	14	D11	AQ	47	47	F	2.2	0.4	5.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
A	14	D11	CD	48	48	F	1.8	0.1	18			Chrysotile	TAS_AHRA
A	14	D11	CD	49	49	F	3.1	0.1	31			Chrysotile	TAS_AHRA
A	14	D11	CD	50	50	F	1	0.1	10			Chrysotile	TAS_AHRA
A	14	D11	CD	51	51	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	15	D31	AQ	52		MD1-0	12	8	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	15	D31	AQ		52	MF	4	0.8	5.0			Mg, Al, Si, Ca, Fe Actinolite	
A	15	D31	CD	53		MD1-0	3.8	3	1.3			Chrysotile	TAS_AHRA
A	15	D31	CD		53	MF	1.58	0.1	16			Chrysotile	
A	15	D31	CD	54	54	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	16	A12	CD	55		MD1-0	3.8	2.8	1.4			Chrysotile	TAS_AHRA
B	16	A12	CD		55	MF	0.6	0.1	6.0			Chrysotile	
B	16	A12	AQ	56	56	F	2	0.45	4.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	16	A12	AQ	57	57	F	8.5	1.8	4.7			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	16	A12	AQ	58	58	F	20	1.2	17			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	16	A12	CD	59	59	B	1.2	0.15	8.0			Chrysotile	TAS_AHRA
B	16	A12	CDQ	60	60	B	3.3	0.2	16			Mg, Si Chrysotile	TAS_AHRA
B	17	D2	AQ	61	61	F	5.5	1	5.5			Mg, Al, Si, Ca, Fe Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	18	D22	CD	62	62	F	3	0.1	30			Chrysotile	TAS_AHRA
B	18	D22	AQ	63	63	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	18	D22	AQ	64	64	F	1.2	0.35	3.4			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	18	D22	CD	65	65	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	18	D22	CD	66	66	F	0.5	0.08	6.2			Chrysotile	TAS_AHRA
B	18	D22	AQ	67		MD1-1	5.5	5	1.1			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	18	D22	AQ		67	MF	5.35	0.47	11			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT
B	19	D42	CD	68	68	F	0.9	0.1	9.0			Chrysotile	TAS_AHRA
B	19	D42	CD	69	69	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	19	D42	CD	70		MD1-0	2.5	2	1.2			Chrysotile	TAS_AHRA
B	19	D42	CD		70	MF	1.5	0.12	12			Chrysotile	
B	19	D42	CD	71	71	F	0.8	0.08	10			Chrysotile	TAS_AHRA
B	20	A1	AQ	72		MD1-0	5	1.8	2.8			Actinolite	TAS_AHRA
B	20	A1	AQ		72	MF	4	0.22	18			Mg, Al, Si, Ca, Fe Actinolite	
B	20	A1	CD	73		MD1-0	4	2	2.0			Chrysotile	TAS_AHRA
B	20	A1	CD		73	MF	0.8	0.1	8.0			Chrysotile	
B	20	A1	CD	74	74	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	21	D11	CD	75	75	F	1.8	0.1	18			Chrysotile	TAS_AHRA
B	21	D11	CD	76	76	F	1.2	0.11	11			Chrysotile	TAS_AHRA
B	22	D31	CD	77	77	F	0.6	0.08	7.5			Chrysotile	TAS_AHRA
B	22	D31	AQ	78	78	F	4	1.1	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	22	D31	CD	79	79	F	0.8	0.1	8.0			Chrysotile	TAS_AHRA
B	22	D31	CD	80	80	F	1.8	0.12	15			Chrysotile	TAS_AHRA
B	22	D31	CD	81	81	F	2	0.1	20			Chrysotile	TAS_AHRA
B	23	D10	AQ	82	82	F	2.2	0.4	5.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	23	D10	AQ	83	83	B	6.5	1.5	4.3			Mg, Al, Si, Ca, Fe Actinolite	AS>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	23	D10	CD	84	84	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	23	D10	CD	85	85	F	9	0.11	82			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	23	D10	AQ	86	86	F	1.8	0.4	4.5			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	23	D10	AQ	87	87	F	3	0.8	3.8			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	D30	CD	88	88	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	24	D30	AQ	89	89	F	1.8	0.5	3.6			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	24	D30	CD	90	90	F	5.5	0.1	55			Chrysotile	AS>5, AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	24	D30	CD	91		MD1-0	4.8	1.2	4.0			Chrysotile	TAS_AHRA

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBB-H2-5PG-100604 *Lab/Cor Sample No.:* B4771 S103 A1

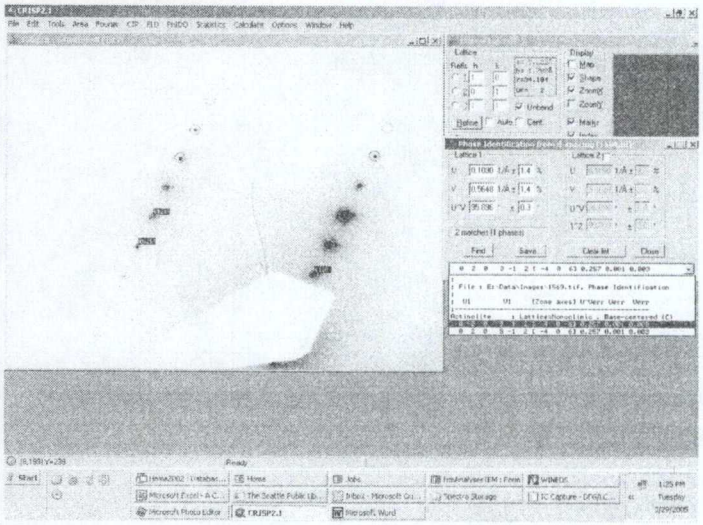
Descripiton:

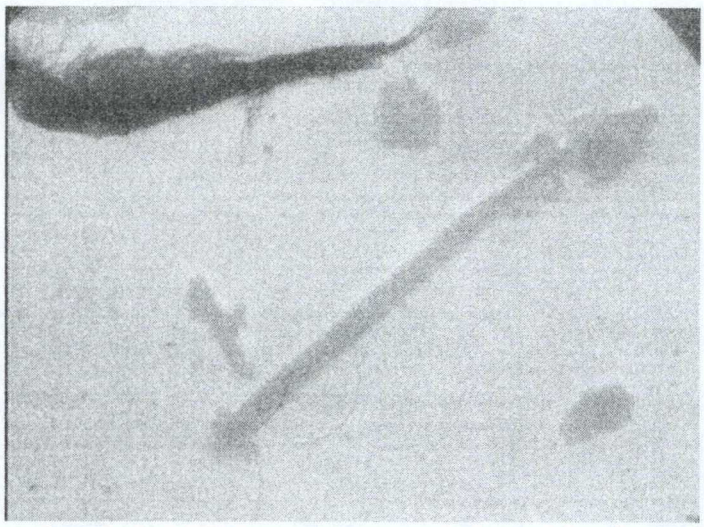
Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	24	D30	CD		91	MF	4	0.1	40			Chrysotile	
B	24	D30	CD	92	92	F	0.8	0.11	7.3			Chrysotile	TAS_AHRA
B	24	D30	CD	93		MD1-0	3.8	2	1.9			Chrysotile	TAS_AHRA
B	24	D30	CD		93	MF	1.2	0.12	10			Chrysotile	
B	25	C10	CD	94	94	F	1	0.1	10			Chrysotile	TAS_AHRA
B	25	C10	AQ	95		MD1-1	9.5	4	2.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	25	C10	AQ		95	MF	8.5	1.2	7.1			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	26	C40	CD	96		MD1-0	1.8	1	1.8			Chrysotile	TAS_AHRA
B	26	C40	CD		96	MF	0.8	0.08	10			Chrysotile	
B	26	C40	CD	97	97	F	1.2	0.12	10			Chrysotile	TAS_AHRA
B	26	C40	AQ	98	98	F	2	0.6	3.3			Mg, Al, Si, Ca, Fe Actinolite	TAS_AHRA
B	27	C12	CD	99	99	F	1.2	0.1	12			Chrysotile	TAS_AHRA
B	27	C12	CD	100	100	F	2.5	0.1	25			Chrysotile	TAS_AHRA
B	27	C12	CD	101	101	B	7	0.7	10			Chrysotile	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	27	C12	AQ	102		MD1-1	7.5	4	1.9			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	27	C12	AQ		102	MF	7.5	1.2	6.2			Mg, Al, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

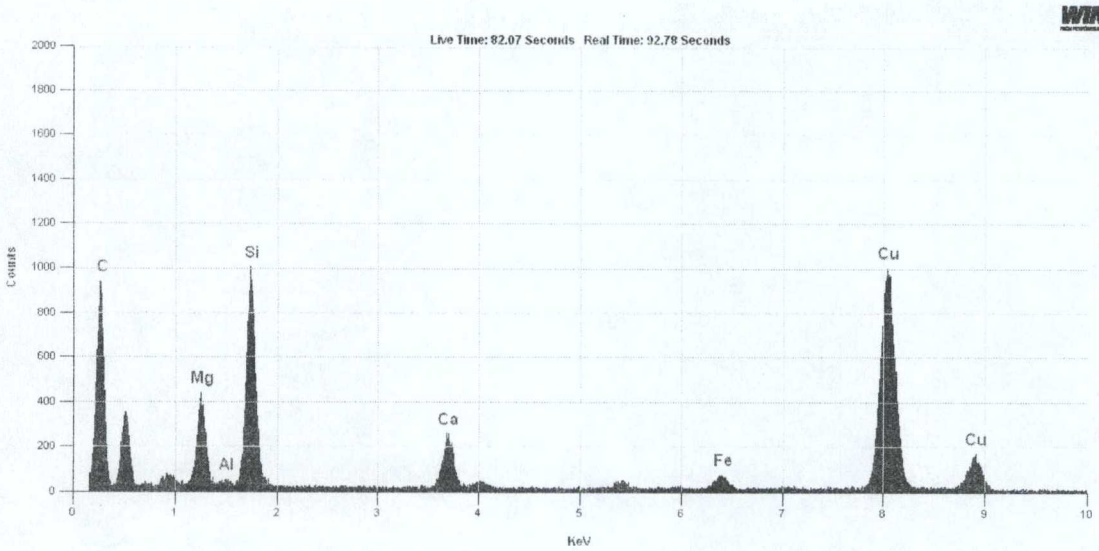
Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

ACTINOLITE - Zone Axis [2 0 -3]
Neg# J1569 Job# 041188-103
JEOL 1200EX - Gatan Image







Quantitative Analysis Results - Standardless Analysis :
041188-103 SP 1203 Tue, Mar 29 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 251.88
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	9.88	MgO	18.82	0.70	18.82
Al	0.15	Al2O3	0.36	0.22	0.36
Si	22.49	SiO2	63.85	1.54	63.85
Ca	4.77	CaO	12.64	0.75	12.64
Fe	1.15	Fe2O3	4.33	0.73	4.33
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	63.85	Si+4	8.0000	8.0000							
Al2O3	0.36	Al+3	0.1737	0.0000	0.1737						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	4.33	Fe+3	0.0774			0.0774	0.0000				
MgO	0	Mg+2	0.0000			0.0000	0.0000				
MnO	0	Fe+2	0.6653			0.6653	0.0000				
CaO	12.64	Mn+2	0.0000			0.0000	0.0000				
Na2O	18.82	Ca+2	2.1094					2.0000	0.1094		
K2O	0	Na+	5.4061					0.0000	5.4061	1.0000	4.4061
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.1737	C site	0.0000	B site	5.5155139	A site	4.406133
			Total	8		0.9164		2.0000		1.0000	4.4061
			%Fill	100		18.3285		100			

Prefix	none
Name	ferro-edenite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-103-1203

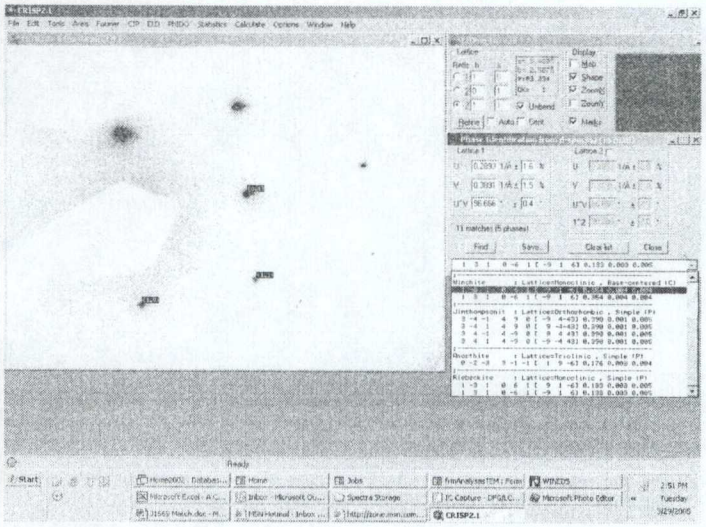
Values		Satisfied Conditions
(Ca,Na)@B	2.00	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A >= 0.5
Ca@B	2.00	(Mg/(Mg+Fe2))< 0.5
(Na,K)@A	1.00	Si > 6.5
Mg/(Mg+Fe2)	0.00	
Si	8.00	

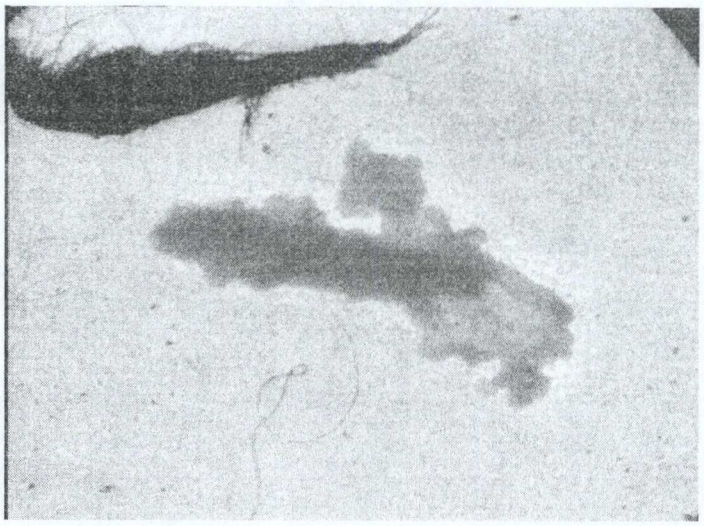
Mineral Analysis Program (Version 5.0)

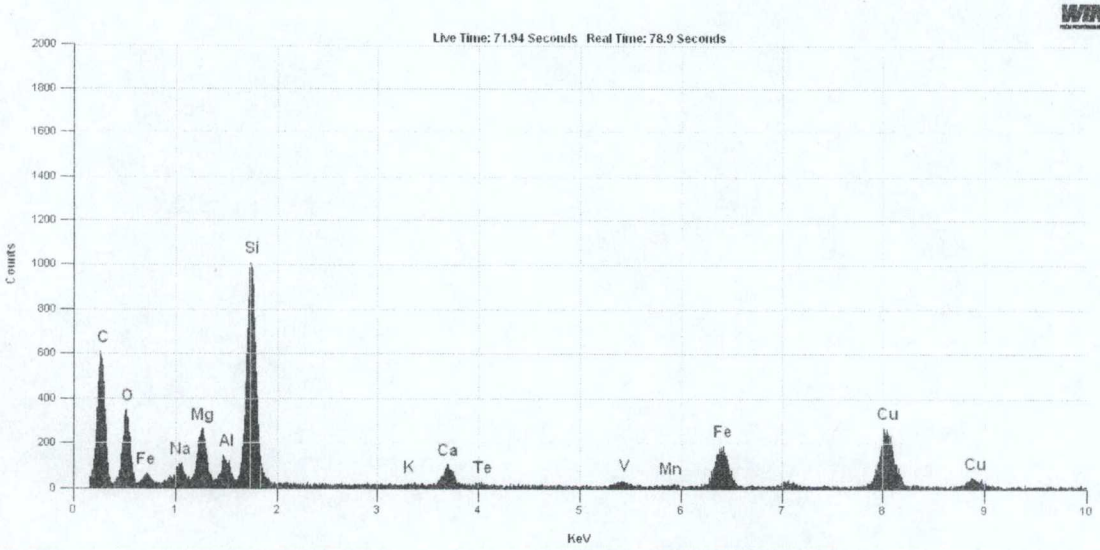
Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

WINCHITE - Zone Axis [9 1 -6]
Neg# J1570 Job# 041188-103
JEOL 1200EX - Gatan Image







Quantitative Analysis Results - Standardless Analysis :
041188-103 SP 1204 Tue, Mar 29 2005
EDS Parameters - 100KV, Takeoff Angle: 35.0°, Fit Index: 214.95
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Na	2.57	Na2O	3.69	0.44	3.69
Mg	5.97	MgO	11.19	0.57	11.19
Al	1.13	Al2O3	2.68	0.29	2.68
Si	22.68	SiO2	63.32	1.52	63.32
K	0.10	K2O	0.21	0.18	0.21
Ca	1.74	CaO	4.54	0.46	4.54
Fe	3.88	Fe2O3	14.37	1.13	14.37
<Total>	100.00		100.00		100.00

	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	63.32	Si+4	8.0000	8.0000							
Al2O3	2.68	Al+3	0.4839	0.0000	0.4839						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	14.37	Fe+3	0.0488			0.0488	0.0000				
MgO	11.19	Mg+2	2.4094			2.4094	0.0000				
MnO	0	Fe+2	1.6976			1.6976	0.0000				
CaO	4.54	Mn+2	0.0000			0.0000	0.0000				
Na2O	3.69	Ca+2	0.7601					0.7601	0.0000		
K2O	0.21	Na+	1.1069					1.1069	0.0000	0.0000	0.0000
		K+	0.0942							0.0942	0.0000
Total	100		Excess	T site	0.4839	C site	0.0000	B site	0	A site	0
			Total	8		4.6396		1.8670		0.0942	0.0000
			%Fill	100		92.7924		93.3477			

Prefix none
Name winchite
Modifier none
Group Sodic-Calcic Amphibole

Sample # 041188-103-1204

Values		Satisfied Conditions
(Ca,Na)@B	1.87	(Ca,Na)@B >= 1 and 0.5 <= Na@B < 1.5
Na@B	1.11	(Na,K)@A < 0.5
Na,K)@A	0.09	(Mg/(Mg+Fe2))>= 0.5
Mg/(Mg+Fe2)	0.59	Si > 7.5
Si	8.00	

Mineral Analysis Program (Version 5.0)

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

ANALYSIS DETAIL

Lab/Cor Sample No. B4771 S111 A1
Client Sample No. SFBC-H2-4PG-100604
Description
Analysis Date 3/29/2005
Analyst DW

Volume (L) 1148.05
No. of Grid Openings 46
Filter Area (mm2) 193
Area Analyzed (mm2) 0.667
Analytical Sens. (struc/cc) 0.00101
Dectection Limit. (struc/cc) 0.00302

Structure Type	Filter Density (s/mm2)	Concen-tration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count
Primary Asbestos Structures	82.5	0.0555	0.0418 - 0.0722 (Poisson)	55
Total Asbestos Structures	96.0	0.0646	0.0497 - 0.0825 (Poisson)	64
Asbestos Structures > 5um	24.0	0.0161	0.00923 - 0.0262	16
Asbestos Fibers and Bundles > 5um	12.0	0.00807	0.00348 - 0.0159	8
PCM Equivalent Fibers-US	9.0	0.00605	0.00222 - 0.0132	6
PCM Equivalent Structures-ISO	1.5	0.00101	0.00 - 0.00478	1
PROTOCOL ASB STRUCS 5-10	3.0	0.00202	0.00 - 0.00636	2
PROTOCOL ASB STRUCS >10	0.0	<0.00302	0.00 - 0.00302	0
PROTOCOL ASB STRUCS TOTAL	3.0	0.00202	0.00 - 0.00636	2
PROTOCOL CHRYS STRUCS 5-10	3.0	0.00202	0.00 - 0.00636	2
PROTOCOL CHRYS STRUCS >10	0.0	<0.00302	0.00 - 0.00302	0
PROTOCOL CHRYS STRUCS TOTAL	3.0	0.00202	0.00 - 0.00636	2
PROTOCOL AMPH STRUCS 5-10	0.0	<0.00302	0.00 - 0.00302	0
PROTOCOL AMPH STRUCS >10	0.0	<0.00302	0.00 - 0.00302	0
PROTOCOL AMPH STRUCS TOTAL	0.0	<0.00302	0.00 - 0.00302	0
AHERA-like Total Structures 3:1	82.5	0.0555	0.0418 - 0.0722 (Poisson)	55
AHERA-like Asb Strucs >5 and 3:1	24.0	0.0161	0.00923 - 0.0262	16
AHERA-like Asb Strucs 5 - 10 and 3:1	15.0	0.0101	0.00484 - 0.0186	10
AHERA-like Asb Strucs >10 and 3:1	9.0	0.00605	0.00222 - 0.0132	6
Total Other Amphibole Strucs 3:1	0.0	<0.00302	0.00 - 0.00302	0
Other Amphibole Strucs >5 and 3:1	0.0	<0.00302	0.00 - 0.00302	0
Other Amphibole Strucs 5 - 10 and 3:1	0.0	<0.00302	0.00 - 0.00302	0
Other Amphibole Strucs >10 and 3:1	0.0	<0.00302	0.00 - 0.00302	0

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S111 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	1	B44		NSD									
A	2	B34	CDQ	1	1	F	1	0.1	10	251	15953	Mg,Si Chrysotile DW 3-29-05	TAS_AHRA
A	2	B34	CD	2		MD1-0	0.75	0.75	1.0			Chrysotile	TAS_AHRA
A	2	B34	CD		2	MF	0.5	0.1	5.0			Chrysotile	
A	2	B34	CD	3		MD1-0	1.5	1	1.5			Chrysotile	TAS_AHRA
A	2	B34	CD		3	MF	1	0.1	10			Chrysotile	
A	2	B34	CD	4	4	F	2	0.1	20			Chrysotile	TAS_AHRA
A	2	B34	CD	5		MD1-0	4	1.5	2.7			Chrysotile	TAS_AHRA
A	2	B34	CD		5	MB	4	0.3	13			Chrysotile	
A	2	B34	CD	6	6	F	2.5	0.1	25			Chrysotile	TAS_AHRA
A	2	B34	CD	7	7	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	3	B24	CD	8		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
A	3	B24	CD		8	MF	1	0.1	10			Chrysotile	
A	3	B24	CD	9	9	F	0.65	0.1	6.5			Chrysotile	TAS_AHRA
A	4	B14	CD	10		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
A	4	B14	CD		10	MF	1	0.1	10			Chrysotile	
A	4	B14	CD	11	11	F	1.5	0.1	15			Chrysotile	TAS_AHRA
A	5	B4	CD	12	12	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	6	C4	CD	13		MD1-0	3	2.5	1.2			Chrysotile	TAS_AHRA
A	6	C4	CD		13	MF	1	0.1	10			Chrysotile	
A	6	C4	CD	14		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
A	6	C4	CD		14	MF	1	0.1	10			Chrysotile	
A	7	C14		NSD									
A	8	C24		NSD									
A	9	C34	CD	15		MD1-0	2	2	1.0			Chrysotile	TAS_AHRA
A	9	C34	CD		15	MF	1.2	0.1	12			Chrysotile	
A	10	A41	CD	16	16	F	1	0.1	10			Chrysotile	TAS_AHRA
A	10	A21	AQ	17	17	F	7.5	1	7.5			Actinolite	AS>5, AFB>5, PCMEF-US, PCMES-ISO, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	11	A1	CD	18	18	F	1.2	0.1	12			Chrysotile	TAS_AHRA
A	12	D1	AQ	19		MD1-1	10	8	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	12	D1	AQ		19	MF	7.5	1.2	6.2			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
A	13	D21		NSD									

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP, Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S111 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
A	14	D41		NSD									
A	15	B40		NSD									
A	16	B30		NSD									
A	17	B20	CD	20		MD1-0	17	15	1.1			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
A	17	B20	CD		20	MF	1	0.1	10			Chrysotile	
A	18	B10	CD	21	21	F	1	0.1	10			Chrysotile	TAS_AHRA
A	19	C10	CD	22		MD1-0	10	10	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
A	19	C10	CD		22	MF	1.5	0.1	15			Chrysotile	
A	20	C20	AZQ	23		MD1-0	4	1.5	2.7			Actinolite	TAS_AHRA
A	20	C20	AZQ		23	MF	2.5	0.3	8.3	252	15954	Mg, Si, Ca, Fe Actinolite Zone Axis [3 0 1] DW 3/30/05	
A	21	C30	CD	24	24	F	0.75	0.1	7.5			Chrysotile	TAS_AHRA
A	22	C40	AQ	25		MD1-0	4	4	1.0			Actinolite	TAS_AHRA
A	22	C40	AQ		25	MF	2	0.5	4.0			Mg, Si, Ca, Fe Actinolite	
B	23	B43	AQ	26		MD1-1	35	35	1.0			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	23	B43	AQ		26	MF	11	2.5	4.4			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	24	B33	CD	27		MD1-0	7.5	7.5	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	24	B33	CD		27	MB	4	1.5	2.7			Chrysotile	
B	24	B23	CD	28		MD1-0	12	7.5	1.6			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	24	B23	CD		28	MF	2.5	0.1	25			Chrysotile	
B	25	B13	CD	29		MD1-0	1	1	1.0			Chrysotile	TAS_AHRA
B	25	B13	CD		29	MF	1	0.1	10			Chrysotile	
B	25	B13	CD	30		MD1-0	5	5	1.0			Chrysotile	TAS_AHRA
B	25	B13	CD		30	MF	1	0.1	10			Chrysotile	
B	26	B3	CD	31		MD1-0	7	7	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	26	B3	CD		31	MF	0.5	0.1	5.0			Chrysotile	
B	27	C3	AQ	32		MD1-1	15	10	1.5			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	27	C3	AQ		32	MF	10	2	5.0			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US
B	28	C13		NSD									
B	29	C23		NSD									

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Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S111 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	30	C33	CD	33		MD5-3	20	10	2.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	30	C33	CD		33	MF	6	0.1	60			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	30	C33	CD		34	MF	5.2	1	5.2			Chrysotile	AFB>5, PCMEF-US
B	30	C33	CD		35	MF	5.1	0.1	51			Chrysotile	AFB>5, PSAS 5-10, PSAS TOT, PCAS 5-10, PCAS TOT
B	30	C33	CD		36	MF	4	0.1	40			Chrysotile	
B	30	C33	CD		37	MF	2	0.1	20			Chrysotile	
B	30	C33	CD	34	38	F	1	0.1	10			Chrysotile	TAS_AHRA
B	30	C33	CD	35		MD1-0	2.5	2.5	1.0			Chrysotile	TAS_AHRA
B	30	C33	CD		39	MF	2	0.1	20			Chrysotile	
B	30	C33	CD	36	40	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	31	C43	CD	37		MD2-0	6	6	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	C43	CD		41	MF	4	0.1	40			Chrysotile	
B	31	C43	CD		42	MF	1	0.1	10			Chrysotile	
B	31	C43	CD	38		MD3-0	4	4	1.0			Chrysotile	TAS_AHRA
B	31	C43	CD		43	MR3-0	3	1.5	2.0			Chrysotile	
B	31	C43	CD	39		MD5-0	6	6	1.0			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	C43	CD		44	MF	2	0.1	20			Chrysotile	
B	31	C43	CD		45	MF	1	0.1	10			Chrysotile	
B	31	C43	CD		46	MB	1	0.3	3.3			Chrysotile	
B	31	C43	CD		47	MF	0.5	0.1	5.0			Chrysotile	
B	31	C43	CD		48	MF	0.5	0.1	5.0			Chrysotile	
B	31	C43	CD	40		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	31	C43	CD		49	MF	0.5	0.1	5.0			Chrysotile	
B	31	C43	AQ	41		MD1-0	12	10	1.2			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS>10_AHRA
B	31	C43	AQ		50	MF	2	0.2	10			Mg, Si, Ca, Fe Actinolite	
B	31	C43	CD	42	51	F	1	0.1	10			Chrysotile	TAS_AHRA
B	32	B42	CD	43		MD1-0	1.5	1.5	1.0			Chrysotile	TAS_AHRA
B	32	B42	CD		52	MF	1	0.1	10			Chrysotile	
B	33	B22	CD	44		MD1-0	3.5	1.5	2.3			Chrysotile	TAS_AHRA
B	33	B22	CD		53	MF	3	0.1	30			Chrysotile	

<3:1

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report # 041188R15

Client: Ecology and Environment, Inc.

Project Name: Site #0440.01CP Sample Set #2 - FINAL REPORT

TEM ASBESTOS STRUCTURE COUNT - RAW DATA

Sample No.: SFBC-H2-4PG-100604 *Lab/Cor Sample No.:* B4771 S111 A1

Descripiton:

Gr	No.	Loc.	ID	Prim	Tot	Class	Len	Wid	Asp	Neg#	EDS#	Comment	Count Categories
B	34	B12	CD	45		MD1-0	2	1	2.0			Chrysotile	TAS_AHRA
B	34	B12	CD		54	MF	2	0.1	20			Chrysotile	
B	34	B12	CD	46		MD1-0	4	4	1.0			Chrysotile	TAS_AHRA
B	34	B12	CD		55	MF	1.5	0.1	15			Chrysotile	
B	35	B2		NSD									
B	36	C2	CD	47		MD1-0	5	4	1.2			Chrysotile	TAS_AHRA
B	36	C2	CD		56	MF	3	0.1	30			Chrysotile	
B	37	C12		NSD									
B	38	C22		NSD									
B	39	C32		NSD									
B	40	C42		NSD									
B	41	B40	CD	48		MD1-0	2.5	2.5	1.0			Chrysotile	TAS_AHRA
B	41	B40	CD		57	MF	2	0.1	20			Chrysotile	
B	42	B30	CD	49	58	F	0.5	0.1	5.0			Chrysotile	TAS_AHRA
B	43	B20	CD	50	59	F	1	0.1	10			Chrysotile	TAS_AHRA
B	43	B20	CD	51		MD1-0	7.5	5	1.5			Chrysotile	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	43	B20	CD		60	MF	3	0.1	30			Chrysotile	
B	44	B10	CD	52	61	F	4	0.1	40			Chrysotile	TAS_AHRA
B	44	B10	CD	53	62	F	1	0.05	20			Chrysotile	TAS_AHRA
B	45	C10	AQ	54	63	F	3	0.4	7.5			Mg, Si, Ca, Fe Actinolite	TAS_AHRA
B	46	C20	AQ	55		MD1-1	10	7	1.4			Actinolite	AS>5, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA
B	46	C20	AQ		64	MF	7.5	0.75	10			Mg, Si, Ca, Fe Actinolite	AFB>5, PCMEF-US

NSD = No Structures Detected
PAS = Primary Asbestos Structures
TAS = Total Asbestos Structures
AS>5 = Asbestos Structures > 5um
AFB>5 = Asbestos Fibers and Bundles > 5um
PCMEF-US = PCM Equivalent Fibers-US
PCMES-US = PCM Equivalent Structures-US
PCMEF-ISO = PCM Equivalent Fibers-ISO
PCMES-ISO = PCM Equivalent Structures-ISO

CF = Cleavage Fragments
TS = Transitional Structures

PSAS 5-10 = PROTOCOL ASB STRUCS 5-10
PSAS >10 = PROTOCOL ASB STRUCS >10
PSAS TOT = PROTOCOL ASB STRUCS TOTAL
PSCH 5-10 = PROTOCOL CHRYS STRUCS 5-10
PSCH >10 = PROTOCOL CHRYS STRUCS >10
PSCH TOT = PROTOCOL CHRYS STRUCS TOTAL
PSAM 5-10 = PROTOCOL AMPH STRUCS 5-10
PSAM >10 = PROTOCOL AMPH STRUCS >10
PSAM TOT = PROTOCOL AMPH STRUCS TOTAL

PChS = Primary Chrysotile Structures
PAmS = Primary Amphibole Structures

TAS_AHRA = AHERA-like Total Strucs 3:1
AS>5_AHRA = AHERA-like Asb Strucs >5 and 3:1
AS5-10_AHRA = AHERA-like Asb Strucs 5 - 10 and 3:1
AS>10_AHRA = AHERA-like Asb Strucs >10 and 3:1
TOS_AHRA = Total Other Amphibole Strucs 3:1
OS>5_AHRA = Other Amphibole Struc >5 and 3:1
OS5-10_AHRA = Other Amphibole Struc 5 - 10 and 3:1
OS>10_AHRA = Other Amphibole Strucs >10 and 3:1

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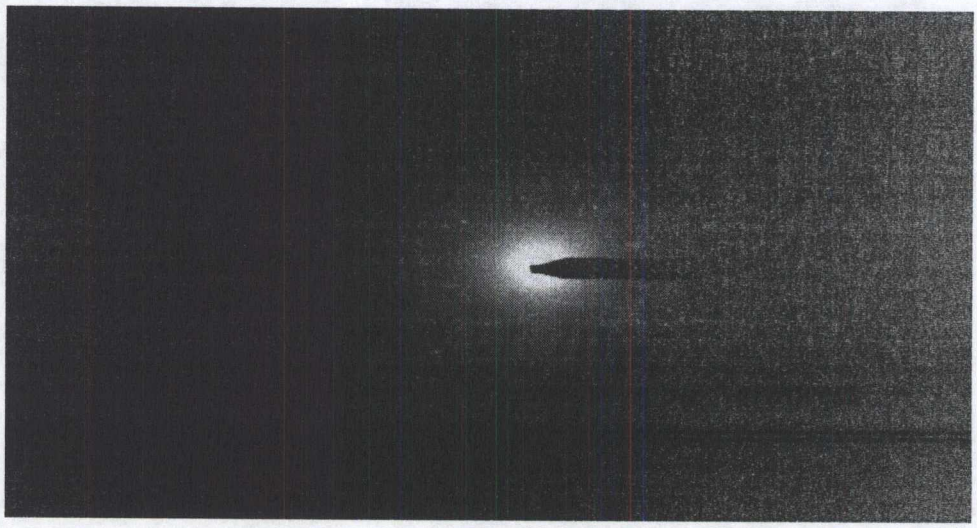
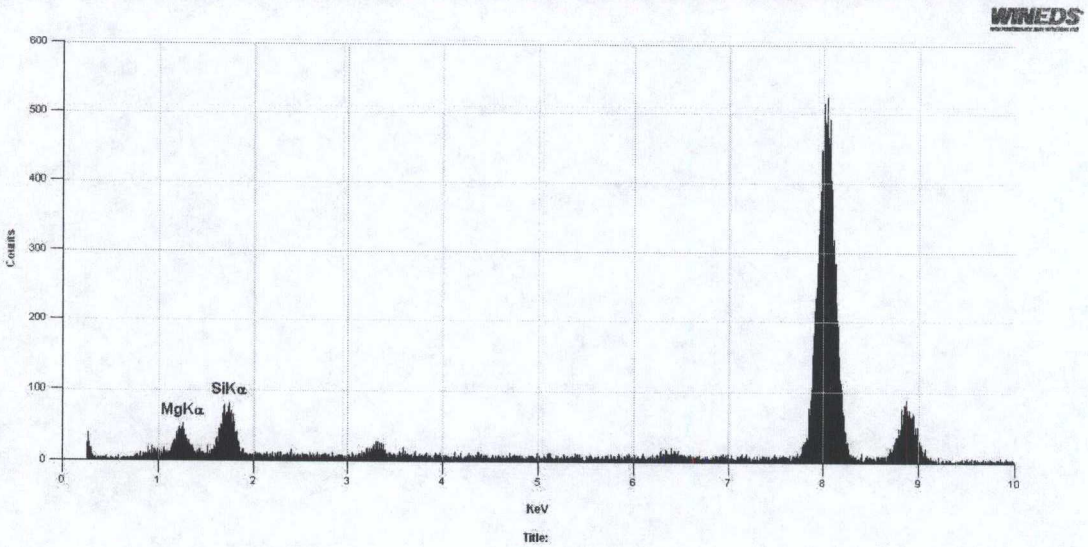
Chrysotile

Neg#[251]; [Job# 15953]
[3-29-05] iTEM Image





Quantitative Analysis Results - Standardless Analysis :
041188-111 EDS# 15953 Tue, Mar 29 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 31.39

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	20.92	MgO	42.00	6.08	42.00
Si	19.38	SiO2	58.00	6.44	58.00
<Total>	100.00		100.00		100.00

7619 6th Avenue NW, Seattle, WA 98117

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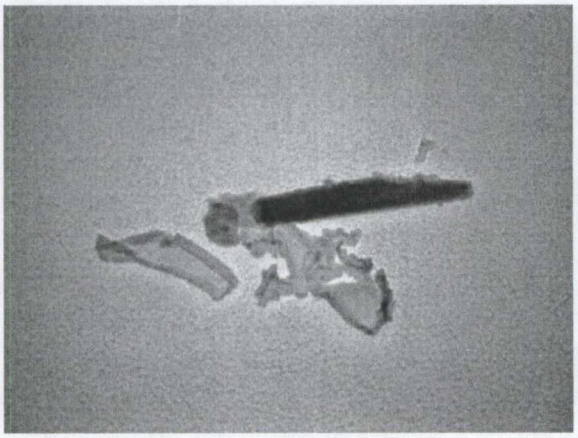
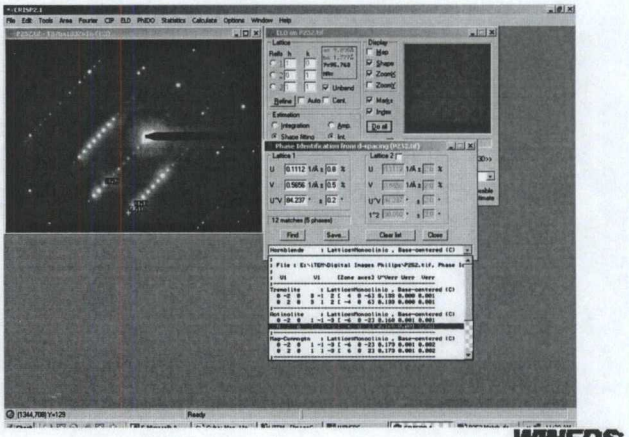
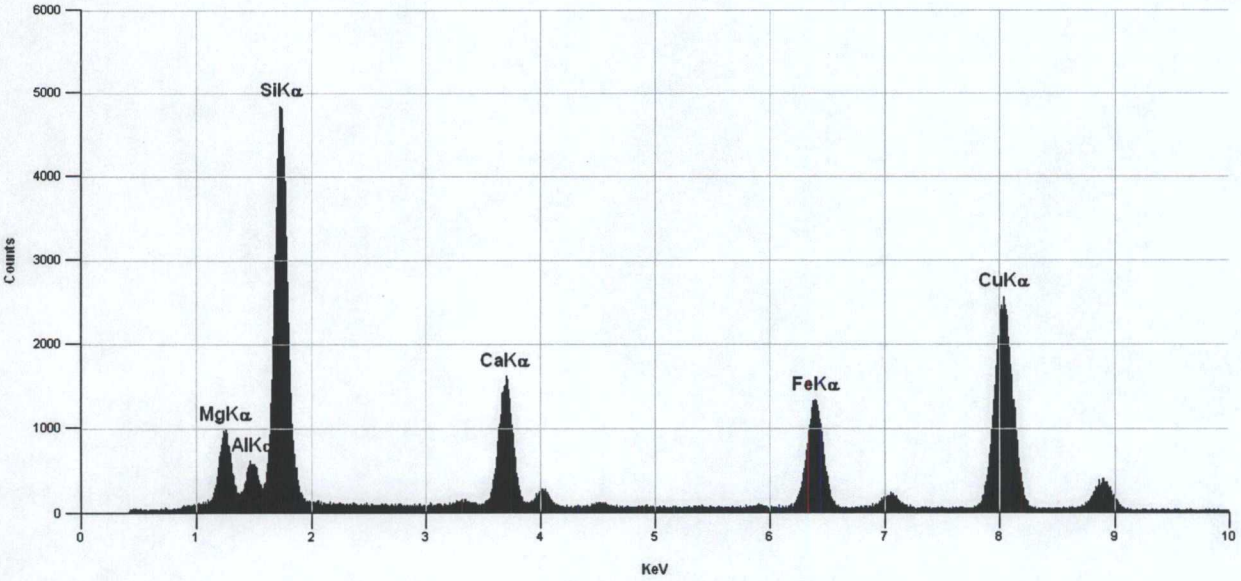
Actinolite

Neg#[252]; [Job# 041188-111]
[3-30-05] iTEM Image
Zone Axis [3 0 1]







Quantitative Analysis Results - Standardless Analysis :
041188-111 SP15954 Wed, Mar 30 2005
EDS Parameters - 100KV, Takeoff Angle: 38.0°, Fit Index: 6.62
Correction: CLIFF LORIMER, Cycles: 1

Element	Atoms%	Compound	Weight%	Error(±)	Norm%
Mg	6.89	MgO	12.54	0.40	12.54
Al	0.91	Al2O3	2.08	0.12	2.08
Si	21.17	SiO2	57.45	0.73	57.45
Ca	4.43	CaO	11.22	0.30	11.22
Fe	4.63	Fe2O3	16.71	0.51	16.71
<Total>	100.00		100.00		100.00

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	Wt Percent		ions	T site	Leftover	C site	Leftover	B site	Leftover	A site	Leftover
SiO2	57.45	Si+4	8.0000	8.0000							
Al2O3	2.08	Al+3	0.3548	0.0000	0.3548						
TiO2	0	Ti+4	0.0000	0.0000	0.0000						
Cr2O3	0	Cr+3	0.0000			0.0000	0.0000				
Fe(total)O	16.71	Fe+3	0.0771			0.0771	0.0000				
MgO	12.54	Mg+2	2.6554			2.6554	0.0000				
MnO	0	Fe+2	1.9014			1.9014	0.0000				
CaO	11.22	Mn+2	0.0000			0.0000	0.0000				
Na2O	0	Ca+2	1.7093					1.7093	0.0000		
K2O	0	Na+	0.0000					0.0000	0.0000	0.0000	0.0000
		K+	0.0000							0.0000	0.0000
Total	100		Excess	T site	0.3548	C site	0.0000	B site	0	A site	0
			Total	8		4.9887		1.7093		0.0000	0.0000
			%Fill	100		99.773		85.4627			

Prefix	none
Name	actinolite
Modifier	none
Group	Calcic Amphibole

Sample # 041188-111-252

Values		Satisfied Conditions
(Ca,Na)@B	1.71	(Ca,Na)@B >= 1 and Na@B < 0.5
Na@B	0.00	Ca@B >= 1.5 and (Na,K)@A < 0.5
Ca@B	1.71	(Mg/(Mg+Fe2))>= 0.5
(Na,K)@A	0.00	Si > 7.5
Mg/(Mg+Fe2)	0.58	(Mg/(Mg+Fe2))< 0.9
Si	8.00	

Mineral Analysis Program (Version 5.0)