



**ISO 10312, Direct Summary Data**

**Job Number:** 061079      **SEA**  
**Client:** ABC Environmental Company  
**Project Name:** Air Sample Analysis

**Report Number:** 061079R06  
**Date Received:** 10/10/2007

**Lab/Cor Sample No.:** S1  
**Client Sample No.:** TEM 1  
**Description:** Inside Hallway

**Volume (L) :** 1200  
**Lab Filter Area (mm2) :** 385  
**Grid Openings Analyzed :** 40  
**Average Grid Opening Area :** 0.013  
**Area Analyzed (mm2) :** 0.52  
**Analytical Sens. (struc/cc) :** 0.00062  
**Detection Limit. (struc/cc) :** 0.00184

**Analyst(s)      Analysis Date**  
KM                      10/10/2007

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count' Prim/Total
Primary Asbestos Structures	26.9	0.009	0.005 - 0.014 - Poisson	14
Total Asbestos Structures	28.8	0.009	0.005 - 0.015 - Poisson	15
PCM Equivalent Fibers-ISO	9.6	0.003	0.001 - 0.007 - Poisson	5
PCM Equivalent Structures-ISO	9.6	0.003	0.001 - 0.007 - Poisson	5
Asbestos Structures >5um and 3:1	13.5	0.004	0.002 - 0.009 - Poisson	7
Asbestos Fibers and Bundles > 5um and 3:1	13.5	0.004	0.002 - 0.009 - Poisson	7

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

**Lab/Cor Sample No.:** S2  
**Client Sample No.:** TEM 2  
**Description:** Inside Closet

**Volume (L) :** 1200  
**Lab Filter Area (mm2) :** 385  
**Grid Openings Analyzed :** 40  
**Average Grid Opening Area :** 0.013  
**Area Analyzed (mm2) :** 0.52  
**Analytical Sens. (struc/cc) :** 0.00062  
**Detection Limit. (struc/cc) :** 0.00184

**Analyst(s)      Analysis Date**  
KM                      10/10/2007

Structure Type	Filter Density (s/mm2)	Concentration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count' Prim/Total
Primary Asbestos Structures	15.4	0.005	0.002 - 0.01 - Poisson	8
Total Asbestos Structures	15.4	0.005	0.002 - 0.01 - Poisson	8
PCM Equivalent Fibers-ISO	9.6	0.003	0.001 - 0.007 - Poisson	5
PCM Equivalent Structures-ISO	11.5	0.004	0.001 - 0.008 - Poisson	6
Asbestos Structures >5um and 3:1	11.5	0.004	0.001 - 0.008 - Poisson	6
Asbestos Fibers and Bundles > 5um and 3:1	9.6	0.003	0.001 - 0.007 - Poisson	5

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

  
**John Harris, M.P.H.**  
Laboratory Director

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 0, 2 str - 0, 3 str - 0

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**Client: ABC Environmental Company**  
**Project Name: Air Sample Analysis**

**Report Number: 061079R06**  
**Date Received: 10/10/2007**

**Lab/Cor Sample No: S1**  
**Client Sample No: TEM 1**  
**Description: Inside Hallway**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	1	A2				NSD							
G1	2	A4	CD	1	1	F	0.7	0.08	8.8	Chrysotile			
G1	3	A6				NSD							
G1	4	A8	CDQ	2	2	F	7	0.1	70	Chrysotile	Mg, Si		AFB>5, 3:1, AS>5, 3:1
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J001 BF						
						Diffraction	J001 DF				KM	10/10/2007	
						Spectra	J001 SP						
G1	5	B9				NSD							
G1	6	B7				NSD							
G1	7	B5	ADQ	3	3	F	9.5	0.6	15.8	Actinolite	Mg, Al, Si, Ca, Fe		PCMEF-ISO, PCMES-ISO, AS>5, 3:1, AFB>5, 3:1
G1	8	B3	CD	4	4	F	1.7	0.08	21.3	Chrysotile	S, Ca	POSSIBLE GYPSUM	
G1	9	B1				NSD							
G1	10	C2	CD	5	5	B	6.2	0.3	20.7	Chrysotile			PCMES-ISO, AFB>5, 3:1, PCMEF-ISO, AS>5, 3:1
G1	11	C4				NSD							
G1	12	C6				NSD							
G1	13	C8	ADQ	6	6	F	10.2	0.8	12.8	Actinolite	Mg, Al, Si, Ca, Fe		PCMEF-ISO, PCMES-ISO, AS>5, 3:1, AFB>5, 3:1
G1	14	C10				NSD							
G1	15	D9				NSD							
G1	16	D7				NSD							
G1	17	D5				NSD							
G1	18	D3	CD	7		MD 2-1	5.2	2	2.6	Chrysotile			AS>5, 3:1
G1	18	D3	CD		7	MF	5.2	0.12	43.3	Chrysotile			AFB>5, 3:1
G1	18	D3	CD		8	MF	2.2	0.08	27.5	Chrysotile			
G1	19	D1				NSD							
G1	20	E2				NSD							
G2	21	A2	CD	8	9	F	0.85	0.05	17	Chrysotile			
G2	22	A4				NSD							

**Count Categories**

AFB>5, 3:1	Asbestos Fibers and Bundles > 5um and 3:1	AS>5, 3:1	Asbestos Structures >5um and 3:1	PAS	Primary Asbestos Structures
PCMEF-ISO	PCM Equivalent Fibers-ISO	PCMES-ISO	PCM Equivalent Structures-ISO	TAS	Total Asbestos Structures

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**Report Number: 061079R06**  
**Date Received: 10/10/2007**

**Lab/Cor Sample No: S1**  
**Client Sample No: TEM 1**  
**Description: Inside Hallway**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G2	23	A6	NAM	9	10	F	6	1.2	5	Non Asbestos Mineral	S, Ca	POSSIBLE GYPSUM	
G2	24	A8				NSD							
G2	25	B9	ADQ	10	11	F	12.5	0.5	25	Actinolite	Mg, Al, Si, Ca, Fe		PCMEF-ISO, PCMES-ISO, AS>5, 3:1, AFB>5, 3:1
G2	26	B7				NSD							
G2	27	B5				NSD							
G2	28	B3				NSD							
G2	29	B1	CD	11	12	MC 5-0	4.2	2.2	1.9	Chrysotile			
G2	30	C2				NSD							
G2	31	C4				NSD							
G2	32	C6	ADQ	12	13	F	3.5	0.3	11.7	Actinolite	Mg, Al, Si, Ca, Fe		
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J003 BF						
						Diffraction Spectra	J003 DF J003 SP				KM 10/10/2007	ZONE AXIS [ 1 0 0 ]	
G2	33	C8				NSD							
G2	34	C10	CD	13	14	F	1.2	0.1	12	Chrysotile	S, Ca	POSSIBLE GYPSUM	
G2	35	D9				NSD							
G2	36	D7	ADQ	14	15	F	8.5	0.3	28.3	Actinolite	Mg, Al, Si, Ca, Fe		PCMEF-ISO, PCMES-ISO, AS>5, 3:1, AFB>5, 3:1
G2	37	D5				NSD							
G2	38	D3				NSD							
G2	39	D1				NSD							
G2	40	E4	CDQ	15	16	F	2	0.3	6.7	Chrysotile			
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J002 BF						
						Diffraction Spectra	J002 DF J002 SP				KM 10/10/2007		

**Count Categories**

AFB>5, 3:1	Asbestos Fibers and Bundles > 5um and 3:1	AS>5, 3:1	Asbestos Structures >5um and 3:1	PAS	Primary Asbestos Structures
PCMEF-ISO	PCM Equivalent Fibers-ISO	PCMES-ISO	PCM Equivalent Structures-ISO	TAS	Total Asbestos Structures

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**Job Number: 061079**      **SEA**  
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**Project Name: Air Sample Analysis**

**Report Number: 061079R06**  
**Date Received: 10/10/2007**

**Lab/Cor Sample No: S2**  
**Client Sample No: TEM 2**  
**Description: Inside Closet**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	1	A2	CDQ	1	1	F	2.6	0.12	21.7	Chrysotile	Mg, Si		
							ItemType	ItemNum		Confirmed		Comment	
							Brightfield	J004 BF					
							Diffraction	J004 DF		KM		10/10/2007	
							Spectra	J004 SP					
G1	2	A4				NSD							
G1	3	A6				NSD							
G1	4	A8				NSD							
G1	5	B9	CD	2	2	B	8	0.8	10	Chrysotile			PCMES-ISO, AS>5, 3:1, AFB>5, 3:1, PCMEF-ISO
G1	6	B7				NSD							
G1	7	B5				NSD							
G1	8	B3				NSD							
G1	9	B1				NSD							
G1	10	C1	CD	3	3	F	1.2	0.12	10	Chrysotile			
G1	11	C3				NSD							
G1	12	C5				NSD							
G1	13	C7				NSD							
G1	14	C9				NSD							
G1	15	D10				NSD							
G1	16	D8				NSD							
G1	17	D6				NSD							
G1	18	D4				NSD							
G1	19	D2	CD	4	4	F	6	0.36	16.7	Chrysotile			AFB>5, 3:1, PCMEF-ISO, PCMES-ISO, AS>5, 3:1
G1	20	E3				NSD							
G2	21	A2				NSD							
G2	22	A4	CD	5	5	MC 15-0	6	2	3	Chrysotile			PCMES-ISO, AS>5, 3:1
G2	23	A6				NSD							
G2	24	A8				NSD							
G2	25	B9				NSD							
G2	26	B7	CD	6	6	F	12.2	0.35	34.9	Chrysotile			PCMES-ISO, AFB>5, 3:1, PCMEF-ISO, AS>5, 3:1

**Count Categories**

AFB>5, 3:1	Asbestos Fibers and Bundles > 5um and 3:1	AS>5, 3:1	Asbestos Structures >5um and 3:1	PAS	Primary Asbestos Structures
PCMEF-ISO	PCM Equivalent Fibers-ISO	PCMES-ISO	PCM Equivalent Structures-ISO	TAS	Total Asbestos Structures

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**Job Number: 061079      SEA**  
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**Lab/Cor Sample No: S2**  
**Client Sample No: TEM 2**  
**Description: Inside Closet**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G2	27	B5				NSD							
G2	28	B3				NSD							
G2	29	B1	CD	7	7	F	10	0.5	20	Chrysotile			PCMES-ISO, AFB>5, 3:1, PCMEF-ISO, AS>5, 3:1
G2	30	C2				NSD							
G2	31	C4				NSD							
G2	32	C6				NSD							
G2	33	C8	CD	8	8	B	6.5	0.3	21.7	Chrysotile			PCMES-ISO, AFB>5, 3:1, PCMEF-ISO, AS>5, 3:1
G2	34	C10				NSD							
G2	35	D9				NSD							
G2	36	D7				NSD							
G2	37	D5				NSD							
G2	38	D3				NSD							
G2	39	D1				NSD							
G2	40	E4				NSD							

**Count Categories**

AFB>5, 3:1	Asbestos Fibers and Bundles > 5um and 3:1	AS>5, 3:1	Asbestos Structures >5um and 3:1	PAS	Primary Asbestos Structures
PCMEF-ISO	PCM Equivalent Fibers-ISO	PCMES-ISO	PCM Equivalent Structures-ISO	TAS	Total Asbestos Structures

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**Reviewed by:**

*John Harris*  
**John Harris, M.P.H.**  
**Laboratory Director**

**Count Categories**

AFB>5, 3:1	Asbestos Fibers and Bundles > 5um and 3:1	AS>5, 3:1	Asbestos Structures >5um and 3:1	PAS	Primary Asbestos Structures
PCMEF-ISO	PCM Equivalent Fibers-ISO	PCMES-ISO	PCM Equivalent Structures-ISO	TAS	Total Asbestos Structures