



WESTERN STATE HOSPITAL HAZARDOUS MATERIALS SURVEY

LAB ANALYSIS BUILDING #117

SanAir Technologies Laboratory

Analysis Report

prepared for

El Group, Inc Roanoke Office

Report Date: 9/6/2013
Project Name: Western State
Hospital Building 117
Project #: IHR0130196.00
SanAir ID#: 13020574



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

EI Group, Inc Roanoke Office
15 Salem Ave SE
Suite 301
Roanoke, VA 24011

September 6, 2013

SanAir ID # 13020574
Project Name: Western State Hospital Building 117
Project Number: IHR0130196.00

Dear Melissa Hart,

We at SanAir would like to thank you for the work you recently submitted. The 34 sample(s) were received on Thursday, September 05, 2013 via FedEx. The final report(s) is enclosed for the following sample(s): 117-1, 117-2, 117-3, 117-4, 117-5, 117-6, 117-7, 117-8, 117-9, 117-10, 117-11, 117-12, 117-13, 117-14, 117-15, 117-16, 117-17, 117-18, 117-19, 117-20, 117-21, 117-22, 117-23, 117-24, 117-25, 117-26, 117-27, 117-28, 117-29, 117-30, 117-31, 117-32, 117-33, 117-34.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
34 sample(s) in Good condition



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SanAir ID Number

13020574

FINAL REPORT

Name: El Group, Inc Roanoke Office
Address: 15 Salem Ave SE
Suite 301
Roanoke, VA 24011

Project Number: IHR0130196.00
P.O. Number:
Project Name: Western State Hospital Building 117

Collected Date: 9/3/2013
Received Date: 9/5/2013 10:15:00 AM
Report Date: 9/6/2013 9:19:05 AM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-1 / 13020574-001	White Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-2 / 13020574-002	White Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-3 / 13020574-003 Drywall	White Non-Fibrous Heterogeneous	4% Cellulose	96% Other	None Detected
117-3 / 13020574-003 Joint Compound	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-4 / 13020574-004	White Non-Fibrous Heterogeneous	5% Cellulose	95% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-5 / 13020574-005	White Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-6 / 13020574-006	White Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected

Certification

Signature: 
Date: 9/5/2013

Reviewed: 
Date: 9/6/2013

Page 1 of 6



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Project Number: IHR0130196.00
P.O. Number:
Project Name: Western State Hospital Building 117

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Report Date: 9/6/2013 9:19:05 AM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
117-7 / 13020574-007	White Non-Fibrous Heterogeneous		100% Other		None Detected

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
117-8 / 13020574-008	White Non-Fibrous Heterogeneous		100% Other		None Detected

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
117-9 / 13020574-009	White Non-Fibrous Heterogeneous		100% Other		None Detected

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
117-10 / 13020574-010	White Non-Fibrous Heterogeneous		100% Other		None Detected

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
117-11 / 13020574-011	Black Non-Fibrous Heterogeneous		100% Other		None Detected

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
117-12 / 13020574-012	Black Non-Fibrous Heterogeneous		100% Other		None Detected

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
117-13 / 13020574-013	Black Fibrous Heterogeneous	65%	Cellulose	35% Other	None Detected

Certification

Signature: 
Date: 9/5/2013

Reviewed: 
Date: 9/6/2013

Page 2 of 6



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P.O. Number:
Project Name: Western State Hospital Building 117

Collected Date: 9/3/2013
Received Date: 9/5/2013 10:15:00 AM
Report Date: 9/6/2013 9:19:05 AM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-14 / 13020574-014	Black Fibrous Heterogeneous	65% Cellulose	35% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-15 / 13020574-015 Floor Tile	Red Non-Fibrous Heterogeneous		100% Other	None Detected
117-15 / 13020574-015 Mastic	Yellow Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-16 / 13020574-016 Floor Tile	Red Non-Fibrous Heterogeneous		100% Other	None Detected
117-16 / 13020574-016 Mastic	Yellow Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-17 / 13020574-017	White Non-Fibrous Heterogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-18 / 13020574-018	White Non-Fibrous Heterogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-19 / 13020574-019	Beige Non-Fibrous Heterogeneous	40% Cellulose	60% Other	None Detected

Certification

Signature: 
Date: 9/5/2013

Reviewed: 
Date: 9/6/2013

Page 3 of 6



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Roanoke, VA 24011

Project Number: IHR0130196.00
P.O. Number:
Project Name: Western State Hospital Building 117

Collected Date: 9/3/2013
Received Date: 9/5/2013 10:15:00 AM
Report Date: 9/6/2013 9:19:05 AM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-20 / 13020574-020	Beige Non-Fibrous Heterogeneous	40% Cellulose	60% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-21 / 13020574-021	Brown Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-22 / 13020574-022	Brown Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-23 / 13020574-023	Brown Fibrous Heterogeneous	90% Cellulose	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-24 / 13020574-024	Brown Fibrous Heterogeneous	90% Cellulose	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-25 / 13020574-025	Black Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-26 / 13020574-026	Black Non-Fibrous Heterogeneous		100% Other	None Detected

Certification

Signature: 
Date: 9/5/2013

Reviewed: 
Date: 9/6/2013

Page 4 of 6



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SanAir ID Number

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Suite 301
Roanoke, VA 24011

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P.O. Number:
Project Name: Western State Hospital Building 117

Collected Date: 9/3/2013
Received Date: 9/5/2013 10:15:00 AM
Report Date: 9/6/2013 9:19:05 AM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components	Asbestos Fibers
			% Non-Fibrous	
117-27 / 13020574-027	Grey Non-Fibrous Heterogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components	Asbestos Fibers
			% Non-Fibrous	
117-28 / 13020574-028	Grey Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components	Asbestos Fibers
			% Non-Fibrous	
117-29 / 13020574-029	Grey Non-Fibrous Heterogeneous		100% Other	< 1% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components	Asbestos Fibers
			% Non-Fibrous	
117-30 / 13020574-030	Grey Non-Fibrous Heterogeneous		100% Other	< 1% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components	Asbestos Fibers
			% Non-Fibrous	
117-31 / 13020574-031	Black Non-Fibrous Heterogeneous	35% Cellulose	65% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components	Asbestos Fibers
			% Non-Fibrous	
117-32 / 13020574-032	Black Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components	Asbestos Fibers
			% Non-Fibrous	
117-33 / 13020574-033	Black Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected

Certification

Signature: 
Date: 9/5/2013

Reviewed: 
Date: 9/6/2013

Page 5 of 6



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SanAir ID Number

13020574

FINAL REPORT

Name: El Group, Inc Roanoke Office
Address: 15 Salem Ave SE
Suite 301
Roanoke, VA 24011

Project Number: IHR0130196.00
P.O. Number:
Project Name: Western State Hospital Building 117

Collected Date: 9/3/2013
Received Date: 9/5/2013 10:15:00 AM
Report Date: 9/6/2013 9:19:05 AM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-34 / 13020574-034	Black Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected

Certification

Signature: 
Date: 9/5/2013

Reviewed: 
Date: 9/6/2013

Page 6 of 6

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

For NY state samples, method EPA 600/M4-82-020 is performed.

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

NY ELAP lab ID 11983

~~AMERISCI~~

AMERISC
Job No.:

AmeriSci *Richmond*
13635 Genito Road
Midlothian, VA 23112
Phone: (804) 763-1200
Fax: (804) 763-1800
TOLL FREE: (800) 476-5227
www.amerisci.com

SAMPLED BY: Stephen Clark DATE/TIME: 9/3/2013

SanAir Technologies Laboratory

Analysis Report

prepared for

El Group, Inc Roanoke Office

Report Date: 9/10/2013
Project Name: Western State
SanAir ID#: 13020999



Certification # 652931



License # LAB0166



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SanAir Technologies Laboratory, Inc.

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Web: <http://www.sanair.com> E-mail: iaq@sanair.com

EI Group, Inc Roanoke Office
15 Salem Ave SE
Suite 301
Roanoke, VA 24011

September 10, 2013

SanAir ID # 13020999
Project Name: Western State
Project Number:

Dear Melissa Hart,

We at SanAir would like to thank you for the work you recently submitted. The 3 sample(s) were received on Monday, September 09, 2013 via FedEx. The final report(s) is enclosed for the following sample(s): 117-34, 117-35, 117-36.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
3 sample(s) in Good condition



SanAir Technologies Laboratory, Inc.

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Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

13020999

FINAL REPORT

Name: El Group, Inc Roanoke Office
Address: 15 Salem Ave SE
Suite 301
Roanoke, VA 24011

Project Number:
P.O. Number:
Project Name: Western State

Collected Date: 9/6/2013
Received Date: 9/9/2013 9:55:00 AM
Report Date: 9/10/2013 9:21:35 AM
Analyst: Tallert, Jonathan G.

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-34 / 13020999-001	Grey Non-Fibrous Homogeneous		70% Other	30% Amosite

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-35 / 13020999-002	Black Non-Fibrous Homogeneous	20% Cellulose	80% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-36 / 13020999-003	Black Non-Fibrous Homogeneous	20% Cellulose	80% Other	None Detected

Certification

Signature: 
Date: 9/10/2013

Reviewed: 
Date: 9/10/2013

Page 1 of 1

Disclaimer

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For NY state samples, method EPA 600/M4-82-020 is performed.

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

NY ELAP lab ID 11983

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Asbestos
Chain of Custody

SanAir ID Number

13020999

Company: <u>EI GROUP</u>		Project #:	Collect by: <u>M. HART</u>
Address: <u>208 WALNUT HILLS RD</u>		Project Name: <u>Wesley State</u>	Phone #: <u>540-490-0645</u>
City, St., Zip: <u>Staunton VA 24401</u>		Date Collected: <u>9/6/13</u>	Fax #:
State of Collection: <u>VA</u>	Account#:	P.O. Number:	Email: <u>M.HART@EI1.COM</u>

Bulk		Air		Soil/Vermiculite	
ABB	PLM EPA 600/R-93/116 ☒	ABA	PCM NIOSH 7400 ☐	ABSE	PLM EPA 600/R-93/116 (Qual.) ☐
	Positive Stop ☐	ABA-2	OSHA w/ TWA* ☐	ABSP	PLM CARB 435 (LOD <1%) ☐
ABEPA	PLM EPA 400 Point Count ☐	ABTEM	TEM AHERA ☐	ABSP1	PLM CARB 435 (LOD 0.25%) ☐
ABB1K	PLM EPA 1000 Point Count ☐	ABATN	TEM NIOSH 7402 ☐	ABSP2	PLM CARB 435 (LOD 0.1%) ☐
ABBEN	PLM EPA NOB ☐	ABT2	TEM Level II ☐		
ABBCH	TEM Chatfield ☐				
ABBTM	TEM EPA NOB ☐				

Water		New York ELAP		Dust	
ABHE	EPA 100.2 ☐	PLM NY	PLM 600/M4/82/020 ☐	ABWA	TEM Wipe ASTM D-6480 ☐
		ABEPA2	NY ELAP 198.1 ☐	ABDMV	TEM Microvac ASTM D-5755 ☐
		ABENY	NY ELAP 198.6 PLM NOB ☐		
		ABBNY	NY ELAP 198.4 TEM NOB ☐	Matrix	Other ☐

Turn Around Times	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	24 HR ☒
	2 Days ☐	3 Days ☐	4 Days ☐	5 Days ☐

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Type	Flow Rate*	Time* Start - Stop
117-34	↓	↓	↓	↓	↓
117-35	↓	↓	↓	↓	↓
117-36	↓	↓	↓	↓	↓

Relinquished by	Date	Time	Received by	Date	Time
Joe Tinsley	9/6/13	5:02 PM	CP	SEP 09 2013	9:55 AM

Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time. Work with standard turn around time sent Priority Overnight and Billed To Recipient will be charged a \$10 shipping fee.

Page 1 of 1

SanAir Technologies Laboratory

Analysis Report

prepared for

El Group, Inc Roanoke Office

Report Date: 9/18/2013
Project Name: Western State
Hospital
Project #: IHR0130196
SanAir ID#: 13021903



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

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EI Group, Inc Roanoke Office
15 Salem Ave SE
Suite 301
Roanoke, VA 24011

September 18, 2013

SanAir ID # 13021903
Project Name: Western State Hospital
Project Number: IHR0130196

Dear Stephen Clark,

We at SanAir would like to thank you for the work you recently submitted. The 1 sample(s) were received on Tuesday, September 17, 2013 via FedEx. The final report(s) is enclosed for the following sample(s): 117-37.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
1 sample(s) in Good condition



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SanAir ID Number

13021903

FINAL REPORT

Name: El Group, Inc Roanoke Office
Address: 15 Salem Ave SE
Suite 301
Roanoke, VA 24011

Project Number: IHR0130196
P.O. Number:
Project Name: Western State Hospital
Collected Date: 9/13/2013
Received Date: 9/17/2013 10:35:00 AM
Report Date: 9/18/2013 10:09:18 AM
Analyst: Tallert, Jonathan G.

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
117-37 / 13021903-001	Grey Non-Fibrous Homogeneous		60% Other	40% Chrysotile

Certification

Signature:

Date: 9/18/2013

Reviewed:

Date: 9/18/2013

Page 1 of 1

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NY ELAP lab ID 11983

