FACILITIES REDUCTION PROGRAM
ENGINEERING SUPPORT

(CONTRACT NO. W912DY-06-D-0013)

Pre-Demolition Asbestos Survey Report

White Sands Missile Range

Buildings 30722, 30724, 30728, 30735; 421,

360, 362, 364, 365, 368, 122

August 1, 2008

Prepared for:

US Army Corps
of Engineers ®
Huntsville, US Army Engineering
and Support Center

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APPENDICES

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White Sands Missile Range, NM
1 August 2008

HAZAROUS MATERIALS PRE-DEMOLITION SURVEY

1. INTRODUCTION

Francis Stohosky of JSE Labs conducted a hazardous materials pre-demolition survey of 11 buildings at WSMR, NM during the period 15-18 July 2008.

2. FINDINGS

Asbestos

The attached list includes all known asbestos-containing materials discovered at the buildings. In addition to the abatement of all asbestos-containing materials prior to initiating demolition, the demolition contractor must also remove all suspect pcb-containing light ballasts, mercury-containing light tubes, and mercury-containing thermostats present in the buildings.

The demolition contract should also stipulate that any other hazardous materials observed or discovered by the demolition contractor prior to or during demolition should be properly abated, removed, handled and disposed of in accordance with approved procedures. It is important for the demolition contractor to assume full responsibility for abating, removing, and properly disposing of all hazardous materials present in the buildings to be demolished.

Building 30722:
Approximately 400 SF of asbestos-containing floor tile is present in this Quonset-style building. The mastic associated with this tile tested negative for asbestos. Sealant around the exterior single doors tested positive for asbestos.

Building 30724:
No asbestos-containing materials were found in this building. Roofing materials are presumed to contain asbestos, until additional sampling/analysis can be performed.

Building 30728:
Asbestos-containing window glazing compound (four windows), approximately 500 SF of asbestos-containing beige floor tile, and asbestos-containing joint compound was found in the building. The mastic associated with the floor tile tested negative for asbestos. Roofing materials are presumed to contain asbestos, until additional sampling/analysis can be performed.

Further in-depth analysis may be performed on the joint compound to determine if, after averaged over the wall/ceiling gypsum board system; the entire system contains less than 1% asbestos. Materials containing less than 1% asbestos are subject to less stringent handling and disposal requirements than materials containing greater than 1% asbestos.

Building 30735:
Floor tile mastic in the office and restroom (260 SF total) contains asbestos. Window glazing compound (three windows) contains asbestos. The joint compound associated with the fiber board ceiling in the restroom contains less than 1% asbestos. Three fluorescent light fixtures were observed. Roofing materials are presumed to contain asbestos, until additional sampling/analysis can be performed.

Building 421:
The epoxy rink surface does not contain asbestos, however the beige/tan floor tile/mastic found throughout the balance of the building does contain asbestos (this material may exist under the raised rink). Approximately 350 SF of corrugated cement asbestos board is present as an awing over the entrance to the building.

Building 360:
Window glazing compound (54 windows) tested positive for asbestos. There are cement asbestos board panels present on the walls (including some ceilings), occasionally covered over or replaced with other materials such as plywood or gypsum board. Red asbestos-containing poured flooring is present throughout the structure, occasionally covered by other flooring materials. The mechanical isolation cloth associated with the interior HVAC unit contains asbestos. Approximately 50 fluorescent light fixtures and two suspect mercury-containing thermostats were observed. Roofing materials are presumed to contain asbestos, until additional sampling/analysis can be performed.

Building 362:
Window glazing compound (54 windows) tested positive for asbestos. There are cement asbestos board panels present on the walls (including some ceilings), occasionally covered over or replaced with other materials such as plywood or gypsum board. Red asbestos-containing poured flooring is present throughout the structure, occasionally covered by other flooring materials, including the asbestos-containing green tile/black mastic. The mechanical isolation cloth associated with the interior HVAC unit contains asbestos. Exterior sealant present at the building siding to pad joint contains asbestos. Roofing materials are presumed to contain asbestos, until additional sampling/analysis can be performed.

Joint compound associated with the wall system in the main office tested positive for asbestos. Further in-depth analysis may be performed on the joint compound to determine if, after averaged over the wall/ceiling gypsum board system; the entire system contains less than 1% asbestos. Materials containing less than 1% asbestos are subject to less stringent handling and disposal requirements than materials containing greater than 1% asbestos. Approximately 50 fluorescent light fixtures and two suspect mercury-containing thermostats were observed.

Building 364:
Window glazing compound (16 windows) tested positive for asbestos. There are cement asbestos board panels present on the walls (including some ceilings), occasionally covered over or replaced with other materials such as plywood or gypsum board. Red asbestos-containing poured flooring is present throughout the structure, occasionally covered by other flooring materials, including the asbestos-containing brown and black floor tile/black mastic. The

mechanical isolation cloth associated with the interior HVAC unit contains asbestos. Exterior sealant present at the building siding to pad joint is presumed to contain asbestos. Roofing materials are presumed to contain asbestos, until additional sampling/analysis can be performed.

Building 365:
Window glazing compound (54 windows) tested positive for asbestos. There are cement asbestos board panels present on the walls (including some ceilings), occasionally covered over or replaced with other materials such as plywood or gypsum board. Red asbestos-containing poured flooring is present throughout the structure, occasionally covered by other flooring materials, including the asbestos-containing 9" black tile/black mastic and 12" grey tile. The mechanical isolation cloth associated with the interior HVAC unit contains asbestos. Exterior sealant present at the building siding to pad joint contains asbestos. Roofing materials are presumed to contain asbestos, until additional sampling/analysis can be performed.

Building 368:
Window glazing compound (20 windows) tested positive for asbestos. There are cement asbestos board panels present on the walls (including some ceilings), occasionally covered over or replaced with other materials such as plywood or gypsum board. Red asbestos-containing poured flooring is present throughout the structure, occasionally covered by other flooring materials, including the asbestos-containing green tile/black mastic. The mechanical isolation cloth associated with the interior HVAC unit contains asbestos. Exterior sealant present at the building siding to pad joint contains asbestos. The white roof coating contains asbestos.

Building 122:
Prior abatement has occurred at building 122; however asbestos-containing flooring paper was found under wall sills, and asbestos-containing parapet mastic/roofing sealant is present.

3. OTHER SPECIAL HANDLING MATERIALS

Varnished and painted surfaces associated with the buildings are presumed to contain lead. Mercury-containing light tubes, thermostats, and pcb-containing ballasts should be removed and disposed of prior to demolition. HVAC units should be properly drained of refrigerant prior to recycling or disposal.

4. CONTRACT CONSIDERATIONS

The demolition contract should stipulate that any other hazardous materials observed or discovered by the demolition contractor prior to or during demolition should be properly abated, removed, handled and disposed of in accordance with approved procedures. It is important for the demolition contractor to assume full responsibility for abating, removing, and properly disposing of all hazardous materials present in the buildings to be demolished. A mandatory Contractor site walk is recommended to facilitate disclosure of specific site conditions and would allow the Contractor to verify material locations, quantities, and degree of removal difficulty. The quantities and locations of materials given in this report and its attachments are presented for informational and disclosure purposes, and should not be relied on for bidding.

Appendix 1

ACM Materials, Location, and Quantity Summary

White Sands Missile Range Pre-Demolition Building ACM Survey

(Prepared by Francis Stohosky (JSE Labs) - 1 Aug 2008)

The following is a summary list of asbestos-containing materials found in various buildings at WSMR, NM. These materials require removal or special handling procedures in conjunction with demolition of the buildings.

Building Number	Material	Location	Quantity	Unit Cost	Total Cost
30722	Floor tile/mastic	Main Floor office	400 SF		
	Door sealant	Exterior small doors	4 SF		
30724	Roofing materials (presumed)	Exterior roofing	Entire		
30728	Floor tile	Main floor	500 SF		
	Window glazing	Windows	4 EA		
	Roofing materials (presumed)	Exterior roofing	Entire		
	Joint compound	Offices	Entire		
30735	Floor tile mastic	Office, restroom	260 SF		
	Window glazing	Windows	3 EA		
	Joint compound	Restroom ceiling	Entire RR		
	Roofing materials	Exterior roofing	Entire		
	Light tubes/ballasts	Interior lights	3 EA		
421	Floor tile/mastic	Interior floors	5000 SF		
	Corrugated cement asbestos board	Exterior awning	350 SF		
360	Window glazing	Exterior windows	54 EA		
	Cement asbestos board	Interior walls, some ceilings	Throughout		
	Red poured flooring	Interior floors	4500 SF		
	Mechanical isolation cloth	Interior HVAC unit	1 EA		
	Roofing materials (presumed)	Exterior roofing	Entire		
	Light tubes/ballasts	Interior light fixtures	50 EA		
362	Window glazing	Exterior windows	54 EA		
	Cement asbestos board	Interior walls, some ceilings	Throughout		
	Red poured flooring	Interior floors	4500 SF		
	Mechanical isolation cloth	Interior HVAC unit	1 EA		
	Roofing materials (presumed)	Exterior roofing	Entire		
	Light tubes/ballasts	Interior light fixtures	50 EA		
	Green floor tile/mastic	Interior floors (over poured flooring)	4000 SF		
	Exterior sealant	Building siding to pad joint	Entire		
	Joint compound	Main office	Entire		

White Sands Missile Range Pre-Demolition Building ACM Survey

(Prepared by Francis Stohosky (JSE Labs) - 1 Aug 2008)

Building Number	Material	Location	Quantity	Unit Cost	Total Cost
364	Window glazing	Exterior windows	16 EA		
	Cement asbestos board	Interior walls, some ceilings	Throughout		
	Red poured flooring	Interior floors	2000 SF		
	Mechanical isolation cloth	Interior HVAC unit	1 EA		
	Roofing materials (presumed)	Exterior roofing	Entire		
	Green floor tile/mastic	Interior floors (over poured flooring)	4000 SF		
	Exterior sealant	Building siding to pad joint	Entire		
365	Window glazing	Exterior windows	54 EA		
	Cement asbestos board	Interior walls, some ceilings	Throughout		
	Red poured flooring	Interior floors	4500 SF		
	Mechanical isolation cloth	Interior HVAC unit	1 EA		
	Roofing materials (presumed)	Exterior roofing	Entire		
	Light tubes/ballasts	Interior light fixtures	50 EA		
	Black 9", grey 12" floor tile/mastic	Interior floors (over poured flooring)	4000 SF		
	Exterior sealant	Building siding to pad joint	Entire		
368	Window glazing	Exterior windows	20 EA		
	Cement asbestos board	Interior walls, some ceilings	Throughout		
	Red poured flooring	Interior floors	2000 SF		
	Mechanical isolation cloth	Interior HVAC unit	1 EA		
	White roof coating	Exterior roofing	Entire		
	Green floor tile/mastic	Interior floors (over poured flooring)	4000 SF		
	Exterior sealant	Building siding to pad joint	Entire		
122	Flooring paper	Removed except under wall sills	50 SF		
	Roofing mastic/sealant	Roof parapets	Parapets		

Appendix 2

Sample Inventory

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Frankie Friend & Associates
Project: WSMR
Project ID:
Batch #: 083055

JSE Client #: 04127.28

SAMPLE INVENTORY

Report Date: 08/04/2008

Sample Type	Sample Location	Material Extent	Description	Asbestos Analysis
04127.28-001	30722- Roof	40 sf	Green-Coated Black Tar/Fibrous	None Detected
Composition roofing				
04127.28-002	30722- Roof	40 sf	Black Tar/Fibrous	None Detected
Roofing felt				
04127.28-003	30722- Interior wall		Green-Painted Brown Fibrous	None Detected
Fiberboard				
04127.28-004	30722- South side	400 sf	Layer 1: Green-Beige Tile	**3% Chrysotile**
9" VCT			Layer 2: Brown Brittle Mastic	None Detected
04127.28-005	30722- North side	see #4	Layer 1: Green-Beige Tile	**4% Chrysotile**
9" VCT			Layer 2: Brown Brittle Mastic	None Detected
04127.28-006	30722- Exterior	4 sf	White-Painted Gray Fibrous Compound	**16% Chrysotile**
Paint/sealant				
04127.28-007	30728	500 sf	Layer 1: Thick Beige Tile	**5% Chrysotile**
9" Tan VCT			Layer 2: Black Mastic	None Detected
04127.28-008	30728	see #7	Layer 1: Thick Beige Tile	**4% Chrysotile**
9" Tan VCT			Layer 2: Black Mastic	None Detected
04127.28-009	30728- North wall		Layer 1: Green-Painted Texture/Compound	**2% Chrysotile**
Gyp/joint			Layer 2: Brown Fibrous Paper	None Detected
			Layer 3: White Gypsum	None Detected
04127.28-010	30728- South wall		Layer 1: Green-Painted Texture/Compound	**2% Chrysotile**
Gyp/joint			Layer 2: Brown Fibrous Paper	None Detected
			Layer 3: White Gypsum	None Detected

Analysis: EPA 600/R-93/116 Method using PLM - Asbestos

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JSE Client #: 04127.28

SAMPLE INVENTORY

Report Date: 08/04/2008

Sample Type	Sample Location	Material Extent	Description	Asbestos Analysis
04127.28-011	30728- East wall		Layer 1: Green-Painted Texturing	**<1% Chrysotile**
Gyp/joint			Layer 2: Brown Fibrous Paper	None Detected
			Layer 3: White Gypsum Sheet	None Detected
04127.28-012	30728- Windows	4 ea	White-Painted White Compound	None Detected
Window glazing				
04127.28-013	30724- Windows		White-Painted Beige/Gray Plaster	None Detected
Window glazing				
04127.28-014	30724- North wall		White-Painted Beige/Green Plaster	None Detected
Plaster				
04127.28-015	30728- South wall		White-Gray Compound	**3% Chrysotile**
Window glazing				
04127.28-016	30735- Restroom	3 ea	Brown-Gray Compound	**4% Chrysotile**
Window glazing				
04127.28-017	30735- Restroom ceiling		Layer 1: Green-Painted Texture	**<1% Chrysotile**
Fiberboard/texture			Layer 2: Brown Fibrous Matted	None Detected
04127.28-018	30735- Office wall		Layer 1: White-Painted Texture	None Detected
Gyp/joint			Layer 2: Brown Fibrous	None Detected
			Layer 3: White Gypsum Sheet	None Detected
04127.28-019	30735- Office wall		Layer 1: White-Painted Texture	None Detected
Gyp/joint			Layer 2: Brown Fibrous	None Detected
			Layer 3: White Gypsum Sheet	None Detected
04127.28-020	30735- Office	180 sf	Layer 1: Brown Tile	None Detected
9" Tan VCT			Layer 2: Black Mastic	**6% Chrysotile**

Analysis: EPA 600/R-93/116 Method using PLM - Asbestos

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SAMPLE INVENTORY

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Sample Type	Sample Location	Material Extent	Description	Asbestos Analysis
04127.28-021	30735- Restroom	80 sf	Layer 1: Brown Tile	None Detected
9" Tan VCT			Layer 2: Black Mastic	**5% Chrysotile**
04127.28-022	364- East side floor		Layer 1: Green composite tile	**4% Chrysotile**
9 " Green VCT			Layer 2: Black mastic	**3% Chrysotile**
04127.28-023	364- East side floor		Layer 1: Black mastic	**2% Chrysotile**
Red poured flooring			Layer 2: Red cementitious	**2% Chrysotile**
04127.28-024	364- East side ceiling		Layer 1: White compound	None Detected
Fiberboard/joint			Layer 2: Brown matted fibrous	None Detected
04127.28-025	364- West side	16 ea	Beige hard compound	**2% Chrysotile**
Glazing				
04127.28-026	364- West end floor		Layer 1: Brown/red composite vinyl	**2% Chrysotile**
9" Red VCT			Layer 2: Black mastic	**4% Chrysotile**
04127.28-027	364- West end floor		Layer 1: Black composite vinyl	**5% Chrysotile**
9" Black VCT			Layer 2: Black mastic	**3% Chrysotile**
04127.28-028	364- West end floor at joint (under VCT)		Layer 1: Black mastic	None Detected
Red poured flooring			Layer 2: Red cementitious	**2% Chrysotile**
04127.28-029	364- Interior of exterior wall/ceiling	1500 sf	Painted gray cementitious	**26% Chrysotile**
Cement asbestos board				
04127.28-030	364- West side wall		Layer 1: Painted white compound	None Detected
Gyp/joint			Layer 2: White/brown fibrous paper	None Detected
			Layer 3: White gypsum-like	None Detected

Analysis: EPA 600/R-93/116 Method using PLM - Asbestos

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SAMPLE INVENTORY

Report Date: 08/04/2008

Sample Type	Sample Location	Material Extent	Description	Asbestos Analysis
04127.28-031	364- West side wall		Layer 1: Painted white compound	None Detected
Gyp/joint			Layer 2: Brown fibrous paper	None Detected
			Layer 3: White gypsum-like	None Detected
04127.28-032	368- West side wall	700 sf	Green/Gray Fibrous/Cementitious	**16% Chrysotile**
Cement asbestos board				
04127.28-033	368- East side wall	see #32	Green/Gray Fibrous/Cementitious	**22% Chrysotile**
Cement asbestos board				
04127.28-034	368- North ceiling		Layer 1: White Texturing	None Detected
Gyp/joint			Layer 2: Brown Fibrous	None Detected
			Layer 3: White Gypsum	None Detected
04127.28-035	368- West wall		Layer 1: White/Green Paint	None Detected
Gyp/joint			Layer 2: Brown Fibrous Paper	None Detected
			Layer 3: White Gypsum	None Detected
04127.28-036	368- North side floor		Red Brick-like	**1% Chrysotile**
Red poured flooring				
04127.28-037	368- North floor	800 sf	Layer 1: White Tile	None Detected
12" White VCT			Layer 2: Yellow Mastic	None Detected
04127.28-038	368- North floor	200 sf	Layer 1: Green Tile	**7% Chrysotile**
9" Green VCT			Layer 2: Black Mastic	**<1% Chrysotile**
04127.28-039	368		White Compound	**<1% Chrysotile**
Window glazing				
04127.28-040	368- East roof		White Thick Paint-like	**12% Chrysotile**
White roof coating				
04127.28-041	368- South side floor	1000 sf	Layer 1: Green Tile	**7% Chrysotile**
9" Green VCT			Layer 2: Black Mastic	**<1% Chrysotile**

Analysis: EPA 600/R-93/116 Method using PLM - Asbestos

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SAMPLE INVENTORY

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Sample Type	Sample Location	Material Extent	Description	Asbestos Analysis
04127.28-042 Sealant	365- Exterior building to pad joint		Beige/Silver Painted Black Tar	**6% Chrysotile**
04127.28-043 Cement asbestos board	365- Interior wall		Green-Painted Gray Cementitious	**17% Chrysotile**
04127.28-044 Gypboard	365- Wall		Layer 1: Brown Fibrous Layer 2: White Gypsum Sheet	None Detected None Detected
04127.28-045 Tile	365- Wall	100 sf	White-Coated Tan Fibrous Tile	None Detected
04127.28-049 Window glazing	365- North end		White Painted Gray Compound	**3% Chrysotile**
04127.28-050 9" Gray VCT	365- Restroom change area	150 sf	Layer 1: Gray Tile Layer 2: Yellow Mastic	None Detected None Detected
04127.28-051 Mechanical isolation cloth	360- Interior gas unit	1 ea	White fibrous threads	**65% Chrysotile**
04127.28-052 Gyp/joint/tex	360- Interior remodel wall		Layer 1: White textured compound Layer 2: Brown fibrous paper Layer 3: Pionk gypsum-like	None Detected None Detected None Detected
04127.28-053 Window glazing	360- North window		Gray brittle compound	**2% Chrysotile**
04127.28-054 Cement asbestos board	360- South wall		Gray cementitious board	**18% Chrysotile**
04127.28-055 Cement asbestos board	360- North wall		Gray cementitious board	**19% Chrysotile**

Analysis: EPA 600/R-93/116 Method using PLM - Asbestos

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SAMPLE INVENTORY

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Sample Type	Sample Location	Material Extent	Description	Asbestos Analysis
04127.28-056 Red poured flooring	360- East floor		Red cementitous coumpound	**2% Chrysotile**
04127.28-057 12" Gray VCT	360- East floor		Layer 1: Gray composite tile Layer 2: Black/gold mastic	None Detected None Detected
04127.28-058 12" Tan VCT	360- West floor		Layer 1: Tan composite tile Layer 2: Gold mastic	None Detected None Detected
04127.28-059 Texture	360- Interior remodel wall		White texturing compound	None Detected
04127.28-060 Mechanical isolation cloth	360- Exterior unit	2 ea	Black-coated white threads	None Detected
04127.28-061 Roofing	360- Deck roof	100 sf	Black tar fibrous w/white rock	None Detected
04127.28-062 Sealant	360- Exterior metal to pad		Painted white compound	None Detected
04127.28-063 Sealant	362- Exterior building to pad		Beige-Painted Gray Compound	**9% Chrysotile**
04127.28-064 Gyp/joint	362- Main office wall		Layer 1: Beige-Painted Compound Layer 2: Brown Fibrous Paper Layer 3: White Gypsum Sheet	**2% Chrysotile** None Detected None Detected
04127.28-065 9" Light green VCT	362- Main hall		Layer 1: Green Tile Layer 2: Black Mastic	None Detected None Detected
04127.28-066 9" Dark green VCT	362- Main hall		Layer 1: Green Tile Layer 2: Black Mastic	**4% Chrysotile** **<1% Chrysotile**

Analysis: EPA 600/R-93/116 Method using PLM - Asbestos

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SAMPLE INVENTORY

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Sample Type	Sample Location	Material Extent	Description	Asbestos Analysis
04127.28-067	362- East wall		Layer 1: Beige-Painted Compound	None Detected
Gyp/joint			Layer 2: Brown Fibrous Paper	None Detected
			Layer 3: White Gypsum Sheet	None Detected
04127.28-068	362- North side		White-Painted Gray Compound	**3% Chrysotile**
Window glazing				
04127.28-069	362- Hallway		Red Brick-like	**2% Chrysotile**
Red poured flooring				
04127.28-070	362- Radio storage wall		Beige-Painted Compound	None Detected
Textured wall				
04127.28-071	362- East wall		Green/Gray Cementitious	**18% Chrysotile**
Cement asbestos board				
04127.28-072	421- Rink surface		Beige Tile-like	None Detected
Epoxy floor				
04127.28-073	421- Office floor		Layer 1: Tan Tile	**<1% Chrysotile**
9" Tan VCT			Layer 2: Black Mastic	**5% Chrysotile**
04127.28-074	421- Awning roof	350 sf	Gray Cementitious	**17% Chrysotile**
Cement asbestos board				
04127.28-075	421- Awning roof	see 74	Beige-Painted Cementitious	**21% Chrysotile**
Cement asbestos board				
04127.28-076	421- Entire roof		Thick Beige Paint on Foam	None Detected
Foam				
04127.28-077	421- Office wall		Layer 1: White Painted Compound	None Detected
Gyp/joint			Layer 2: Brown Fibrous	None Detected
			Layer 3: White Gypsum	None Detected

Analysis: EPA 600/R-93/116 Method using PLM - Asbestos

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Sample Type	Sample Location	Material Extent	Description	Asbestos Analysis
04127.28-078	421- Skate return		Layer 1: Tan Tile	**<1% Chrysotile**
9" Tan VCT			Layer 2: Black Mastic	**6% Chrysotile**
04127.28-079	421- Pink room wall		Layer 1: Pink Paint	None Detected
Gyp/joint			Layer 2: Brown Fibrous Paper	None Detected
			Layer 3: White Gypsum	None Detected
04127.28-080	122- Remnant flooring paper under walls		White/Black Tar Fibrous	**5% Chrysotile**
Paper				
04127.28-081	122- Under newer stucco		Gray-Coated Black Tar/Fibrous	None Detected
Siding paper				
04127.28-082	122- Newer wall		Gray Cementitious	None Detected
Stucco				
04127.28-083	122- Under original siding		Beige/Black Fibrous Paper	None Detected
Siding paper				
04127.28-084	122- Field		Brown-Coated Black Tar/Fibrous	None Detected
Composition roofing				
04127.28-085	122- Roof top		Beige-Painted White Cloth	None Detected
Duct tape				
04127.28-086	122- Older parapet sealant		Beige-Painted Tar Slather	**19% Chrysotile**
Sealant				
04127.28-46	365- Wall	100 sf	Brown Brittle Mastic	None Detected
Tile mastic				
04127.28-47	365- South floor		Layer 1: Gray Tile	**<1% Chrysotile**
12" White VCT/mastic			Layer 2: Black/Yellow Mastic Mix	None Detected

Analysis: EPA 600/R-93/116 Method using PLM - Asbestos

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SAMPLE INVENTORY

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Sample Type	Sample Location	Material Extent	Description	Asbestos Analysis
04127.28-48	365- Restroom	150 sf	Layer 1: Black Tar	**4% Chrysotile**
9" Black VCT			Layer 2: Black Mastic	**3% Chrysotile**

Analysis: EPA 600/R-93/116 Method using PLM - Asbestos

Appendix 3

Lab Test Results

JSE Laboratory, Inc.
3325 SE Harrison Street
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JSE Client #: 04127.28

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Project: WSMR
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Analysis Date: 07/23/2008
Report Date: 07/31/2008

Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-001	LAYER 1	Green-Coated Black Tar/Fibrous	Rock Particles	23% Cellulose	
AB-083055			Asphaltic		**None Detected**
04127.28-002	LAYER 1	Black Tar/Fibrous	Asphaltic	33% Cellulose	
AB-083056					**None Detected**
04127.28-003	LAYER 1	Green-Painted Brown Fibrous	Acid Soluble	65% Cellulose	
AB-083057					**None Detected**
04127.28-004	LAYER 1	Green-Beige Tile	CaC03		
AB-083058					**3 % Chrysotile**
	LAYER 2	Brown Brittle Mastic	Mastic/Glue		**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-005	LAYER 1	Green-Beige Tile	CaC03		
AB-083059					**4 % Chrysotile**
	LAYER 2	Brown Brittle Mastic	Mastic/Glue		**None Detected**
04127.28-006	LAYER 1	White-Painted Gray Fibrous Compound	Paint		
AB-083060			Acid Soluble		**16 % Chrysotile**
04127.28-007	LAYER 1	Thick Beige Tile	CaC03		
AB-083061					**5 % Chrysotile**
	LAYER 2	Black Mastic	Mastic/Glue		**None Detected**
04127.28-008	LAYER 1	Thick Beige Tile	CaC03		
AB-083062					**4 % Chrysotile**
	LAYER 2	Black Mastic	Mastic/Glue		**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-009	LAYER 1	Green-Painted Texture/Compound	Paint		
AB-083063			Acid Soluble		**2 % Chrysotile**
	LAYER 2	Brown Fibrous Paper	Misc.	75% Cellulose	**None Detected**
	LAYER 3	White Gypsum	Gypsum	6% Cellulose	**None Detected**
04127.28-010	LAYER 1	Green-Painted Texture/Compound	Paint		
AB-083064					**2 % Chrysotile**
	LAYER 2	Brown Fibrous Paper	Misc.		**None Detected**
	LAYER 3	White Gypsum	Gypsum	7% Cellulose	**None Detected**
04127.28-011	LAYER 1	Green-Painted Texturing	Paint		
AB-083065			Acid Soluble		**<1% Chrysotile**
	LAYER 2	Brown Fibrous Paper	Misc.	75% Cellulose	**None Detected**
	LAYER 3	White Gypsum Sheet	Gypsum	6% Cellulose	**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-012	LAYER 1	White-Painted White Compound	Paint		
AB-083066			Acid Soluble		**None Detected**
04127.28-013	LAYER 1	White-Painted Beige/Gray Plaster	Quartz	0.1% Hair	
AB-083067			Acid Soluble		**None Detected**
04127.28-014	LAYER 1	White-Painted Beige/Green Plaster	Quartz	0.1% Hair	
AB-083068			Acid Soluble		**None Detected**
04127.28-015	LAYER 1	White-Gray Compound	Acid Soluble		
AB-083069					**3 % Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-016	LAYER 1	Brown-Gray Compound	Acid Soluble		
AB-083070					**4 % Chrysotile**
04127.28-017	LAYER 1	Green-Painted Texture	Paint		
AB-083071			Acid Soluble		**<1% Chrysotile**
	LAYER 2	Brown Fibrous Matted	Acid Soluble	87% Cellulose	**None Detected**
04127.28-018	LAYER 1	White-Painted Texture	Paint		
AB-083072			Acid Soluble		**None Detected**
	LAYER 2	Brown Fibrous	Misc.	72% Cellulose	**None Detected**
	LAYER 3	White Gypsum Sheet	Gypsum	5% Cellulose	**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-019	LAYER 1	White-Painted Texture	Paint		
AB-083073			Acid Soluble		**None Detected**
	LAYER 2	Brown Fibrous	Misc.	78% Cellulose	**None Detected**
	LAYER 3	White Gypsum Sheet	Gypsum	5% Cellulose	**None Detected**
04127.28-020	LAYER 1	Brown Tile	Vinyl	3% Cellulose	
AB-083074			CaC03		**None Detected**
	LAYER 2	Black Mastic	Mastic/Glue		**6 % Chrysotile**
04127.28-021	LAYER 1	Brown Tile	Vinyl	4% Cellulose	
AB-083075			CaC03		**None Detected**
	LAYER 2	Black Mastic	Mastic/Glue	7% Cellulose	**5 % Chrysotile**
04127.28-022	LAYER 1	Green composite tile	Vinyl		
AB-083076			CaC03		**4 % Chrysotile**
	LAYER 2	Black mastic	Mastic/Glue	1% Cellulose	**3 % Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-023	LAYER 1	Black mastic	Mastic/Glue	2% Cellulose	
AB-083077					**2 % Chrysotile**
	LAYER 2	Red cementitious	Acid Soluble	3% Cellulose	**2 % Chrysotile**
			Rock Particles		
04127.28-024	LAYER 1	White compound	CaC03	1% Cellulose	
AB-083078					**None Detected**
	LAYER 2	Brown matted fibrous	Misc.	85% Cellulose	**None Detected**
04127.28-025	LAYER 1	Beige hard compound	Acid Soluble		
AB-083079					**2 % Chrysotile**
04127.28-026	LAYER 1	Brown/red composite vinyl	Vinyl	3% Cellulose	
AB-083080			CaC03		**2 % Chrysotile**
	LAYER 2	Black mastic	Mastic/Glue		**4 % Chrysotile**

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Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-027	LAYER 1	Black composite vinyl	Vinyl		
AB-083081			CaC03		**5 % Chrysotile**
	LAYER 2	Black mastic	Mastic/Glue	1% Cellulose	**3 % Chrysotile**
04127.28-028	LAYER 1	Black mastic	Mastic/Glue		
AB-083082					**None Detected**
	LAYER 2	Red cementitious	Acid Soluble		**2 % Chrysotile**
			Rock Particles		
04127.28-029	LAYER 1	Painted gray cementitious	Acid Soluble		
AB-083083			Misc.		**26 % Chrysotile**

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Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-030	LAYER 1	Painted white compound	CaC03	3% Cellulose	
AB-083084			Paint		**None Detected**
	LAYER 2	White/brown fibrous paper	Misc.	75% Cellulose	**None Detected**
	LAYER 3	White gypsum-like	Gypsum	4% Cellulose	**None Detected**
04127.28-031	LAYER 1	Painted white compound	CaC03	3% Cellulose	
AB-083085			Paint		**None Detected**
	LAYER 2	Brown fibrous paper	Misc.	75% Cellulose	**None Detected**
	LAYER 3	White gypsum-like	Gypsum	5% Cellulose	**None Detected**
04127.28-032	LAYER 1	Green/Gray Fibrous/Cementitious	Misc.		
AB-083086					**16 % Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-033	LAYER 1	Green/Gray Fibrous/Cementitious	Misc.		
AB-083087					**22 % Chrysotile**
04127.28-034	LAYER 1	White Texturing	Paint		
AB-083088					**None Detected**
	LAYER 2	Brown Fibrous	Misc.	75% Cellulose	**None Detected**
	LAYER 3	White Gypsum	Gypsum	4% Cellulose	**None Detected**
04127.28-035	LAYER 1	White/Green Paint	Paint		
AB-083089					**None Detected**
	LAYER 2	Brown Fibrous Paper	Misc.	73% Cellulose	**None Detected**
	LAYER 3	White Gypsum	Gypsum	6% Cellulose	**None Detected**
04127.28-036	LAYER 1	Red Brick-like	Acid Soluble	3% Cellulose	
AB-083090					**1 % Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-037 AB-083091	LAYER 1	White Tile	CaC03 Vinyl		**None Detected**
	LAYER 2	Yellow Mastic	Mastic/Glue		**None Detected**
04127.28-038 AB-083092	LAYER 1	Green Tile	Vinyl CaC03		**7 % Chrysotile**
	LAYER 2	Black Mastic	Mastic/Glue		**<1% Chrysotile**
04127.28-039 AB-083093	LAYER 1	White Compound	Acid Soluble		**<1% Chrysotile**
04127.28-040 AB-083094	LAYER 1	White Thick Paint-like	Acid Soluble		**12 % Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-041	LAYER 1	Green Tile	Vinyl		
AB-083095			CaC03		**7 % Chrysotile**
	LAYER 2	Black Mastic	Mastic/Glue		**<1% Chrysotile**
04127.28-042	LAYER 1	Beige/Silver Painted Black Tar	Paint	11% Fibrous Glass	
AB-083096			Asphaltic		**6 % Chrysotile**
04127.28-043	LAYER 1	Green-Painted Gray Cementitious	Paint		
AB-083097			Acid Soluble		**17 % Chrysotile**
04127.28-044	LAYER 1	Brown Fibrous	Misc.	75% Cellulose	
AB-083098					**None Detected**
	LAYER 2	White Gypsum Sheet	Gypsum	6% Cellulose	**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-045	LAYER 1	White-Coated Tan Fibrous Tile	pmis	40% Fibrous Glass	
AB-083099				42% Cellulose	**None Detected**
04127.28-46	LAYER 1	Brown Brittle Mastic	Mastic/Glue	3% Fibrous Glass	
AB-083100				2% Cellulose	**None Detected**
				4% Talc	
04127.28-47	LAYER 1	Gray Tile	Vinyl		
AB-083101			CaC03		**<1% Chrysotile**
	LAYER 2	Black/Yellow Mastic Mix	Mastic/Glue	2% Cellulose	**None Detected**
04127.28-48	LAYER 1	Black Tar	Vinyl		
AB-083102			CaC03		**4 % Chrysotile**
	LAYER 2	Black Mastic	Mastic/Glue		**3 % Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-049	LAYER 1	White Painted Gray Compound	Acid Soluble		
AB-083103			Paint		**3 % Chrysotile**
04127.28-050	LAYER 1	Gray Tile	Vinyl		
AB-083104			CaC03		**None Detected**
	LAYER 2	Yellow Mastic	Mastic/Glue		**None Detected**
04127.28-051	LAYER 1	White fibrous threads	Misc.	20% Cellulose	
AB-083105					**65 % Chrysotile**
04127.28-052	LAYER 1	White textured compound	CaC03	2% Cellulose	
AB-083106					**None Detected**
	LAYER 2	Brown fibrous paper	Misc.	75% Cellulose	**None Detected**
	LAYER 3	Pionk gypsum-like	Gypsum	5% Cellulose	**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-053	LAYER 1	Gray brittle compound	Acid Soluble		
AB-083107					**2 % Chrysotile**
04127.28-054	LAYER 1	Gray cementitious board	Acid Soluble		
AB-083108			Misc.		**18 % Chrysotile**
04127.28-055	LAYER 1	Gray cementitious board	Acid Soluble		
AB-083109			Misc.		**19 % Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-056	LAYER 1	Red cementitous coumpound	Acid Soluble	3% Cellulose	
AB-083110			Rock Particles		**2 % Chrysotile**
04127.28-057	LAYER 1	Gray composite tile	Vinyl		
AB-083111			CaC03		**None Detected**
	LAYER 2	Black/gold mastic	Mastic/Glue	2% Cellulose	**None Detected**
04127.28-058	LAYER 1	Tan composite tile	Vinyl		
AB-083112			CaC03		**None Detected**
	LAYER 2	Gold mastic	Mastic/Glue	1% Cellulose	**None Detected**
04127.28-059	LAYER 1	White texturing compound	CaC03	2% Cellulose	
AB-083113					**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-060	LAYER 1	Black-coated white threads	Misc.	80% Fibrous Glass	
AB-083114					**None Detected**
04127.28-061	LAYER 1	Black tar fibrous w/white rock	Asphaltic	45% Cellulose	
AB-083115			Rock Particles		**None Detected**
04127.28-062	LAYER 1	Painted white compound	Misc.		
AB-083116					**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-063	LAYER 1	Beige-Painted Gray Compound	Paint		
AB-083117			Acid Soluble		**9 % Chrysotile**
04127.28-064	LAYER 1	Beige-Painted Compound	Paint		
AB-083118			Acid Soluble		**2 % Chrysotile**
	LAYER 2	Brown Fibrous Paper	Misc.	75% Cellulose	**None Detected**
	LAYER 3	White Gypsum Sheet	Gypsum	6% Cellulose	**None Detected**
04127.28-065	LAYER 1	Green Tile	Vinyl	2% Cellulose	
AB-083119					**None Detected**
	LAYER 2	Black Mastic	Mastic/Glue	3% Cellulose	**None Detected**
04127.28-066	LAYER 1	Green Tile	Vinyl CaC03		
AB-083120					**4 % Chrysotile**
	LAYER 2	Black Mastic	Mastic/Glue		**<1% Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-067	LAYER 1	Beige-Painted Compound	Paint		
AB-083121			Acid Soluble		**None Detected**
	LAYER 2	Brown Fibrous Paper	Misc.	73% Cellulose	**None Detected**
	LAYER 3	White Gypsum Sheet	Gypsum	5% Cellulose	**None Detected**
04127.28-068	LAYER 1	White-Painted Gray Compound	Paint		
AB-083122			Acid Soluble		**3 % Chrysotile**
04127.28-069	LAYER 1	Red Brick-like	Acid Soluble	5% Cellulose	
AB-083123			Misc.		**2 % Chrysotile**
04127.28-070	LAYER 1	Beige-Painted Compound	Paint	5% Cellulose	
AB-083124			Acid Soluble		**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-071	LAYER 1	Green/Gray Cementitious	Paint		
AB-083125			Acid Soluble		**18 % Chrysotile**
04127.28-072	LAYER 1	Beige Tile-like	Quartz		
AB-083126			Misc.		**None Detected**
04127.28-073	LAYER 1	Tan Tile	CaC03		
AB-083127			Vinyl		**<1% Chrysotile**
	LAYER 2	Black Mastic	Mastic/Glue		**5 % Chrysotile**
04127.28-074	LAYER 1	Gray Cementitious	Paint		
AB-083128			Acid Soluble		**17 % Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-075	LAYER 1	Beige-Painted Cementitious	Paint		
AB-083129			Acid Soluble		**21 % Chrysotile**
04127.28-076	LAYER 1	Thick Beige Paint on Foam	Paint		
AB-083130			Foam		**None Detected**
04127.28-077	LAYER 1	White Painted Compound	Paint		
AB-083131			Acid Soluble		**None Detected**
	LAYER 2	Brown Fibrous	Misc.	75% Cellulose	**None Detected**
	LAYER 3	White Gypsum	Gypsum	6% Cellulose	**None Detected**
04127.28-078	LAYER 1	Tan Tile	Vinyl		
AB-083132			CaC03		**<1% Chrysotile**
	LAYER 2	Black Mastic	Mastic/Glue		**6 % Chrysotile**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-079	LAYER 1	Pink Paint	Paint		
AB-083133					**None Detected**
	LAYER 2	Brown Fibrous Paper	Misc.	75% Cellulose	**None Detected**
	LAYER 3	White Gypsum	Gypsum	6% Cellulose	**None Detected**
04127.28-080	LAYER 1	White/Black Tar Fibrous	Paint	26% Cellulose	
AB-083134			Asphaltic		**5 % Chrysotile**
04127.28-081	LAYER 1	Gray-Coated Black Tar/Fibrous	Rock Particles	23% Cellulose	
AB-083135			Asphaltic		**None Detected**
04127.28-082	LAYER 1	Gray Cementitious	Quartz	0.3% Cellulose	
AB-083136			Acid Soluble		**None Detected**

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Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)
04127.28-083	LAYER 1	Beige/Black Fibrous Paper	Asphaltic	43% Cellulose	
AB-083137			Misc.		**None Detected**
04127.28-084	LAYER 1	Brown-Coated Black Tar/Fibrous	Rock Particles	13% Fibrous Glass	
AB-083138			Asphaltic	7% Cellulose	**None Detected**
04127.28-085	LAYER 1	Beige-Painted White Cloth	Acid Soluble	87% Cellulose	
AB-083139					**None Detected**
04127.28-086	LAYER 1	Beige-Painted Tar Slather	Paint		
AB-083140			Asphaltic		**19 % Chrysotile**

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JSE Client #: 04127.28

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Project: WSMR
Project ID:

Analysis Date: 07/30/2008
Report Date: 07/31/2008

Asbestos Analysis of Bulk Materials (EPA 600/R-93/116 Method using PLM)

Sample	Layer	Description	Matrix	Non-Asbestos Fibers	Asbestos (% Type)

Analyst: Elizabeth L. Jones Stohosky

Matthew Wiehr

Approved Signatory _____ Date 7/31/08

JSE participates in the American Industrial Hygiene Association Bulk Asbestos Proficiency Analytical Testing Program.
Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
Small diameter fibers may not be detected by this method. More in-depth analysis is recommended to determine asbestos content, especially for samples containing 10% or less asbestos. Analysis results are solely for the samples analyzed. Non-asbestos sample constituents may not be definite.
Qualitative and quantitative TEM analysis may be recommended for difficult samples.
Quantitative analysis by PLM point count or TEM is recommended for samples testing at < or = to 1% asbestos.