

## Appendix A – Laboratory Reports



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904194

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.03 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/7/2019 9:20 AM

Analysis Date: 05/08/2019

Collected Date: 05/03/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90503-OFD-PMT-0 1 411904194-0001	WP083A AM Dan Beebe Trail	1934.10	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90503-OFD-PMT-0 2 411904194-0002	WP249 AM Canyon Drive	1928.70	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90503-OFD-PMT-0 3 411904194-0003	WP084A AM SE Upper Overlook	1935.90	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90503-OFD-PMT-0 4 411904194-0004	WP087A AM Intake Yard	1945.80	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90503-OFD-PMT-0 5 411904194-0005	WP083A PM Dan Beebe Trail	1942.20	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90503-OFD-PMT-0 6 411904194-0006	WP249 PM Canyon Drive	1952.10	0.2080	1	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
90503-OFD-PMT-0 7 411904194-0007	WP084A PM SE Upper Overlook	1964.80	0.2080	0	None Detected		0.0009	<4.80	<0.0009
90503-OFD-PMT-0 8 411904194-0008	WP087A PM Intake Yard	1960.20	0.2080	1	None Detected		0.0009	<4.80	<0.0009
90503-OFD-PMT-F B1 411904194-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90503-OFD-PMT-F B2 411904194-0010	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A



# EMSL Analytical, Inc.

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<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904194

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.03 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 7/2019 9:20 AM

Analysis Date: 05/08/2019

Collected Date: 05/03/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Derrick Young (10)

Lee Plumley, Laboratory Manager  
or other approved signatory

This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for data reported that relies on information provided by the client, sample collection activities, or analytical method limitations. EMSL maintains liability limited to the cost of analysis. Interpretation and use of test results are the responsibility of the client. All samples were received in acceptable condition unless otherwise noted. The analyses above were performed with a 25% overload criteria as per EPA 40 CFR Part 763 Subpart E. A 10% overload criteria can be applied at client's request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/09/2019 07:23:54



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904200

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

**Attention:** Dave Beadle, CIH  
Safety Management Systems  
1001 Brad Freeman Trail  
Trailer #2 / Safety Mgmt Systems  
Oroville, CA 95965  
**Project:** 2019.05.03 Burma Rd. (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 5/ 7/2019 9:20 AM  
**Analysis Date:** 05/07/2019  
**Collected Date:** 05/03/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90503-OFD-BPT-01 411904200-0001	WP088A AM Burma Road 01	1946.70	0.2080	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
90503-OFD-BPT-02 411904200-0002	WP088A PM Burma Road 01	1943.10	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90503-OFD-BPT-F B1 411904200-0003	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90503-OFD-BPT-F B2 411904200-0004	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

Derrick Young (4)

Lee Plumley, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/09/2019 07:27:55



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904199

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.03 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/7/2019 9:20 AM

Analysis Date: 05/08/2019

Collected Date: 05/03/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90503-OFD-LRP-01 411904199-0001	WP009A AM Launch Ramp Parking	1938.60	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90503-OFD-LRP-02 411904199-0002	WP081A AM Launch Ramp Turnaround	1930.50	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90503-OFD-LRP-03 411904199-0003	WP009A PM Launch Ramp Parking	1960.20	0.2080	0	None Detected		0.0009	<4.80	<0.0009
90503-OFD-LRP-04 411904199-0004	WP081A PM Launch Ramp Turnaround	1965.60	0.2080	1	None Detected		0.0009	<4.80	<0.0009
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
90503-OFD-LRP-F B1 411904199-0005	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90503-OFD-LRP-F B2 411904199-0006	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

Derrick Young (6)

Lee Plumley, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/09/2019 07:24:55



# LA Testing

520 Mission Street South Pasadena, CA 91030  
 Tel/Fax: (323) 254-9960 / (323) 254-9982  
<http://www.LATesting.com / pasadenalab@latesting.com>

**LA Testing Order:** 321910804  
**Customer ID:** SMGS78B  
**Customer PO:**  
**Project ID:** Oroville EM OP

**Attention:** Dave Beadle, CIH  
 Safety Management Systems  
 1001 Brad Freeman Trail  
 Trailer #2 / Safety Mgmt Systems  
 Oroville, CA 95965  
**Project:** 2019.05.04 Upper Area (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 5/ 7/2019 9:15 AM  
**Analysis Date:** 05/08/2019 - 05/10/2019  
**Collected Date:** 05/04/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90504-OFD-PMT-0 1 321910804-0001	WP083A AM DAN BEEBE TRAIL	1931.40	0.2080	8	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90504-OFD-PMT-0 2 321910804-0002	WP249 AM CANYON DRIVE	1914.40	0.2080	3	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90504-OFD-PMT-0 3 321910804-0003	WP084A AM SE UPPER OVERLOOK	1918.90	0.2080	9	Actinolite	0	1	0.0010	4.80	0.00096
90504-OFD-PMT-0 4 321910804-0004	WP087A AM INTAKE YARD	1935.90	0.2080	4	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90504-OFD-PMT-0 5 321910804-0005	WP083A PM DAN BEEBE TRAIL	1944.00	0.2080	6	Actinolite	2	1	0.0010	14.00	0.0029
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90504-OFD-PMT-0 6 321910804-0006	WP249 PM CANYON DRIVE	1961.10	0.2080	8	None Detected			0.0009	<4.80	<0.0009
90504-OFD-PMT-0 7 321910804-0007	WP084A PM SE UPPER OVERLOOK	1958.40	0.2080	11	None Detected			0.0009	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90504-OFD-PMT-0 8 321910804-0008	WP087A PM INTAKE YARD	1953.00	0.2080	4	Actinolite	0	1	0.0009	4.80	0.00095
90504-OFD-PMT-F B1 321910804-0009	Field blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
90504-OFD-PMT-F B2 321910804-0010	Field blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A



## LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / [pasadenalab@latesting.com](mailto:pasadenalab@latesting.com)

LA Testing Order: 321910804

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.04 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 7/2019 9:15 AM

Analysis Date: 05/08/2019 - 05/10/2019

Collected Date: 05/04/2019

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Kyeong Corbin (10)

Jerry Drapala Ph.D, Laboratory Manager  
or other approved signatory

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Samples analyzed by LA Testing South Pasadena, CA

Report amended: 05/10/2019 12:39:31 Replaces initial report from: 05/10/2019 12:31:12 Reason Code: DataEntry-Other (see report comment)



# LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / [pasadenalab@latesting.com](mailto:pasadenalab@latesting.com)

LA Testing Order: 321910785

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

**Attention:** Dave Beadle, CIH  
Safety Management Systems  
1001 Brad Freeman Trail  
Trailer #2 / Safety Mgmt Systems  
Oroville, CA 95965

**Project:** Oroville EM OP- 2019.05.04 Burma Rd (Oroville EM OP)

**Phone:** (661) 699-9375

**Fax:**

**Received Date:** 5/ 7/2019 9:15 AM

**Analysis Date:** 05/07/2019

**Collected Date:** 05/04/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm <sup>2</sup> )	(S/cc)
90504-OFD-BPT-0 1	WP088A AM Burma Road 01	1934.10	0.2080	4	None Detected			0.0010	<4.80	<0.0010
321910785-0001										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90504-OFD-BPT-0 2	WP088A PM Burma Road 01	1948.50	0.2080	9	Actinolite	1	0	0.0010	4.80	0.00095
321910785-0002										
90504-OFD-BPT-F B1	Field blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
321910785-0003										
90504-OFD-BPT-F B2	Field blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
321910785-0004										

Analyst(s)

Kyeong Corbin (4)

Jerry Drapala Ph.D, Laboratory Manager  
or other approved signatory

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Samples analyzed by LA Testing South Pasadena, CA

Initial report from: 05/07/2019 14:05:56





# LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / [pasadenalab@latesting.com](mailto:pasadenalab@latesting.com)

LA Testing Order: 321910798

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

**Attention:** Dave Beadle, CIH  
Safety Management Systems  
1001 Brad Freeman Trail  
Trailer #2 / Safety Mgmt Systems  
Oroville, CA 95965

**Project:** Oroville EM OP- 2019.05.04 Launch Ramp (Oroville EM OP)

**Phone:** (661) 699-9375

**Fax:**

**Received Date:** 5/ 7/2019 9:15 AM

**Analysis Date:** 05/07/2019 - 05/08/2019

**Collected Date:** 05/04/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90504-OFD-LRP-01 321910798-0001	WP009A AM Launch Ramp Parking	1923.30	0.2080	9	Chrysotile	1	0	0.0010	4.80	0.00096
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90504-OFD-LRP-02 321910798-0002	WP081A AM Launch Ramp Turnaround	1920.70	0.2080	7	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90504-OFD-LRP-03 321910798-0003	WP009A PM Launch Ramp Parking	1948.50	0.2080	3	None Detected			0.0010	<4.80	<0.0010
90504-OFD-LRP-04 321910798-0004	WP081A PM Launch Ramp Turnaround	1951.20	0.2080	6	Chrysotile	0	1	0.0009	4.80	0.00095
90504-OFD-LRP-F B1 321910798-0005	Field blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
90504-OFD-LRP-F B2 321910798-0006	Field blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s)

Kyeong Corbin (6)

Jerry Drapala Ph.D, Laboratory Manager  
or other approved signatory

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Samples analyzed by LA Testing South Pasadena, CA

Initial report from: 05/08/2019 11:07:43



# EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order: 091910425

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.05 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 7/2019 9:00 AM

Analysis Date: 05/10/2019

Collected Date: 05/05/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90505-OFD-PMT-0 1 091910425-0001	WP083A AM DAN BEEBE TRAIL	1913.50	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-PMT-0 2 091910425-0002	WP249 AM CANYON DRIVE	1928.70	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-PMT-0 3 091910425-0003	WP084A AM SE UPPER OVERLOOK	1926.00	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-PMT-0 4 091910425-0004	WP087A AM INTAKE YARD	1950.20	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-PMT-0 5 091910425-0005	WP083A PM DAN BEEBE TRAIL	1954.80	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-PMT-0 6 091910425-0006	WP249 PM CANYON DRIVE	1946.70	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-PMT-0 7 091910425-0007	WP084A PM SE UPPER OVERLOOK	1959.30	0.2070	0	None Detected		0.0009	<4.80	<0.0010
90505-OFD-PMT-0 8 091910425-0008	WP087A PM INTAKE YARD	1953.90	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-PMT-F B1 091910425-0009	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
90505-OFD-PMT-F B2 091910425-0010	FIELD BLANK 2	0.00	0.1220	0	None Detected		N/A	<8.20	N/A



# EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order: 091910425

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.05 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 7/2019 9:00 AM

Analysis Date: 05/10/2019

Collected Date: 05/05/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Matthew Batongbacal (10)

Matthew Batongbacal  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from: 05/10/2019 19:36:16



# EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order: 091910434

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.05 BURMA RD (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/7/2019 9:00 AM

Analysis Date: 05/09/2019

Collected Date: 05/05/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90505-OFD-BPT-0 1 091910434-0001	WP088A AM BURMA ROAD 01	1941.30	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-BPT-0 2 091910434-0002	WP088A PM BURMA ROAD 01	1935.90	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-BPT-F B1 091910434-0003	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
90505-OFD-BPT-F B2 091910434-0004	FIELD BLANK 2	0.00	0.1220	0	None Detected		N/A	<8.20	N/A

Analyst(s)

Matthew Batongbacal (4)

Matthew Batongbacal  
or other approved signatory

This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for data reported that relies on information provided by the client, sample collection activities, or analytical method limitations. EMSL maintains liability limited to the cost of analysis. Interpretation and use of test results are the responsibility of the client. All samples were received in acceptable condition unless otherwise noted. The analyses above were performed with a 25% overload criteria as per EPA 40 CFR Part 763 Subpart E. A 10% overload criteria can be applied at client's request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from: 05/09/2019 18:47:57



# EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order: 091910421

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.05 LAUNCH RAMP (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 7/2019 9:00 AM

Analysis Date: 05/09/2019 - 05/10/2019

Collected Date: 05/05/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90505-OFD-LRP-0 1 091910421-0001	WP009A AM LAUNCH RAMP PARKING	1933.20	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-LRP-0 2 091910421-0002	WP081A AM LAUNCH RAMP TURNAROUND	1930.50	0.2070	0	None Detected		0.0010	<4.80	<0.0010
90505-OFD-LRP-0 3 091910421-0003	WP009A PM LAUNCH RAMP PARKING	1964.80	0.2070	0	None Detected		0.0009	<4.80	<0.0010
90505-OFD-LRP-0 4 091910421-0004	WP081A PM LAUNCH RAMP TURNAROUND	1962.90	0.2070	0	None Detected		0.0009	<4.80	<0.0010
90505-OFD-LRP-F B1 091910421-0005	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
90505-OFD-LRP-F B2 091910421-0006	FIELD BLANK 2	0.00	0.1220	0	None Detected		N/A	<8.20	N/A

Analyst(s)

Matthew Batongbacal (6)

Matthew Batongbacal  
or other approved signatory

This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for data reported that relies on information provided by the client, sample collection activities, or analytical method limitations. EMSL maintains liability limited to the cost of analysis. Interpretation and use of test results are the responsibility of the client. All samples were received in acceptable condition unless otherwise noted. The analyses above were performed with a 25% overload criteria as per EPA 40 CFR Part 763 Subpart E. A 10% overload criteria can be applied at client's request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from: 05/10/2019 18:43:07



# EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / [lasvegaslab@EMSL.com](mailto:lasvegaslab@EMSL.com)

EMSL Order: 311901015

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.06 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 8/2019 9:00 AM

Analysis Date: 05/09/2019 - 05/10/2019

Collected Date: 05/06/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90506-OFD-PMT-0 1 311901015-0001	WP083A AM Dan Beebe Trail	1927.80	0.2080	2	None Detected		0.0010	<4.80	<0.0010
90506-OFD-PMT-0 2 311901015-0002	WP249 AM Canyon Drive	1913.50	0.2080	11	None Detected		0.0010	<4.80	<0.0010
90506-OFD-PMT-0 3 311901015-0003	WP084A AM SE Upper Overlook	1918.00	0.2080	6	Chrysotile	0 1	0.0010	4.80	0.00097
90506-OFD-PMT-0 4 311901015-0004	WP087A AM Intake Yard	1933.20	0.2080	4	None Detected		0.0010	<4.80	<0.0010
90506-OFD-PMT-0 5 311901015-0005	WP083A PM Dan Beebe Trail	1936.80	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90506-OFD-PMT-0 6 311901015-0006	WP249 PM Canyon Drive	1956.60	0.2080	2	None Detected		0.0009	<4.80	<0.0010
90506-OFD-PMT-0 7 311901015-0007	WP084A PM SE Upper Overlook	1956.60	0.2080	6	None Detected		0.0009	<4.80	<0.0010
90506-OFD-PMT-0 8 311901015-0008	WP087A PM Intake Yard	1951.20	0.2080	4	None Detected		0.0009	<4.80	<0.0010
90506-OFD-PMT-F B1 311901015-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90506-OFD-PMT-F B2 311901015-0010	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A



# EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / [lasvegaslab@EMSL.com](mailto:lasvegaslab@EMSL.com)

EMSL Order: 311901015

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.06 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 8/2019 9:00 AM

Analysis Date: 05/09/2019 - 05/10/2019

Collected Date: 05/06/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

William Bradford (10)

Shannon Ferguson, Laboratory Manager  
or other approved signatory

This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for data reported that relies on information provided by the client, sample collection activities, or analytical method limitations. EMSL maintains liability limited to the cost of analysis. Interpretation and use of test results are the responsibility of the client. All samples were received in acceptable condition unless otherwise noted. The analyses above were performed with a 25% overload criteria as per EPA 40 CFR Part 763 Subpart E. A 10% overload criteria can be applied at client's request.

Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial report from: 05/13/2019 13:55:15



# EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / [lasvegaslab@EMSL.com](mailto:lasvegaslab@EMSL.com)

EMSL Order: 311901014

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.06 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 8/2019 9:00 AM

Analysis Date: 05/09/2019

Collected Date: 05/06/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm <sup>2</sup> )	(S/cc)
90506-OFD-BPT-0 1 311901014-0001	WP088A AM Burma Rd 01	1931.40	0.2080	2	None Detected			0.0010	<4.80	<0.0010
90506-OFD-BPT-0 2 311901014-0002	WP088A PM Burma Rd 01	1953.90	0.2080	11	None Detected			0.0009	<4.80	<0.0010
90506-OFD-BPT-F B1 311901014-0003	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
90506-OFD-BPT-F B2 311901014-0004	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s)

William Bradford (4)

Shannon Ferguson, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial report from: 05/13/2019 13:53:54





# EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / [lasvegaslab@EMSL.com](mailto:lasvegaslab@EMSL.com)

EMSL Order: 311901019

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.06 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 8/2019 9:00 AM

Analysis Date: 05/10/2019

Collected Date: 05/06/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90506-OFD-LRP-01 311901019-0001	WP009A AM Launch Ramp Parking	1925.10	0.2080	6	None Detected		0.0010	<4.80	<0.0010
90506-OFD-LRP-02 311901019-0002	WP081A AM Launch Ramp Turnaround	1909.90	0.2080	2	None Detected		0.0010	<4.80	<0.0010
90506-OFD-LRP-03 311901019-0003	WP009A PM Launch Ramp Parking	1942.20	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90506-OFD-LRP-04 311901019-0004	WP081A PM Launch Ramp Turnaround	1927.70	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90506-OFD-LRP-F B1 311901019-0005	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90506-OFD-LRP-F B2 311901019-0006	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

William Bradford (6)

Shannon Ferguson, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial report from: 05/13/2019 13:57:56



# EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 531900581

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.07 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 9/2019 10:14 AM

Analysis Date: 05/14/2019

Collected Date: 05/07/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90507-OFD-PMT-0 1 531900581-0001	WP083A AM Dan Beebe Trail	1935.90	0.2030	3	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90507-OFD-PMT-0 2 531900581-0002	WP249 AM Canyon Drive	1926.00	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90507-OFD-PMT-0 3 531900581-0003	WP084A AM SE Upper Overlook	1923.30	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90507-OFD-PMT-0 4 531900581-0004	WP087A AM Intake Yard	1933.20	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90507-OFD-PMT-0 5 531900581-0005	WP083A PM Dan Beebe	1942.20	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90507-OFD-PMT-0 6 531900581-0006	WP249 PM Canyon Drive	1959.30	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90507-OFD-PMT-0 7 531900581-0007	WP084A PM SE Upper Overlook	1959.30	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90507-OFD-PMT-0 8 531900581-0008	WP087A PM Intake Yard	1959.30	0.2030	1	None Detected		0.0010	<4.90	<0.0010
90507-OFD-PMT-F B1 531900581-0009	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
90507-OFD-PMT-F B2 531900581-0010	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	N/A



## EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com> / [rochesterlab@EMSL.com](mailto:rochesterlab@EMSL.com)

EMSL Order: 531900581

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.07 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 9/2019 10:14 AM

Analysis Date: 05/14/2019

Collected Date: 05/07/2019

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Peter Donato (10)

Peter Donato Asbestos Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 05/14/2019 16:09:25



# EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 531900579

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.07 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 9/2019 10:00 AM

Analysis Date: 05/13/2019

Collected Date: 05/07/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90507-OFD-BPT-0 1 531900579-0001	WP088A AM Burma Road 01	1931.40	0.2030	1	None Detected		0.0010	<4.90	<0.0010
90507-OFD-BPT-0 2 531900579-0002	WP088A PM Burma Road 01	1945.80	0.2030	3	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90507-OFD-BPT-F B1 531900579-0003	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
90507-OFD-BPT-F B2 531900579-0004	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	N/A

Analyst(s)

Peter Donato (4)

Peter Donato Asbestos Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 05/13/2019 15:53:26



# EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 531900580

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.07 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/ 9/2019 10:11 AM

Analysis Date: 05/13/2019 - 05/14/2019

Collected Date: 05/07/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90507-OFD-LRP-01 531900580-0001	WP009A AM Launch Ramp Parking	1933.20	0.2030	1	None Detected		0.0010	<4.90	<0.0010
90507-OFD-LRP-02 531900580-0002	WP081A AM Launch Ramp Turnaround	1933.20	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90507-OFD-LRP-03 531900580-0003	WP009A PM Launch Ramp Parking	1952.10	0.2030	1	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90507-OFD-LRP-04 531900580-0004	WP081A PM Launch Ramp Turnaround	1966.60	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90507-OFD-LRP-F B1 531900580-0005	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
90507-OFD-LRP-F B2 531900580-0006	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	N/A

Analyst(s)

Peter Donato (6)

Peter Donato Asbestos Laboratory Manager  
or other approved signatory

This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for data reported that relies on information provided by the client, sample collection activities, or analytical method limitations. EMSL maintains liability limited to the cost of analysis. Interpretation and use of test results are the responsibility of the client. All samples were received in acceptable condition unless otherwise noted. The analyses above were performed with a 25% overload criteria as per EPA 40 CFR Part 763 Subpart E. A 10% overload criteria can be applied at client's request.

Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 05/14/2019 09:30:50



# EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / [indianapolislab@emsl.com](mailto:indianapolislab@emsl.com)

EMSL Order: 161908825

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.08 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/10/2019 8:35 AM

Analysis Date: 05/14/2019 - 05/15/2019

Collected Date: 05/08/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90508-OFD-PMT-0 1 161908825-0001	WP083A AM Dan Beebe Trail	1938.60	0.2100	2	None Detected		0.0009	<4.80	<0.0010
90508-OFD-PMT-0 2 161908825-0002	WP249 AM Canyon Drive	1938.60	0.2100	5	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90508-OFD-PMT-0 3 161908825-0003	WP084A AM SE Upper Overlook	1931.40	0.2100	1	None Detected		0.0010	<4.80	<0.0010
90508-OFD-PMT-0 4 161908825-0004	WP087A AM Intake Yard	1935.90	0.2100	1	None Detected		0.0009	<4.80	<0.0010
90508-OFD-PMT-0 5 161908825-0005	WP083A PM Dan Beebe Trail	1951.20	0.2100	1	None Detected		0.0009	<4.80	<0.0009
90508-OFD-PMT-0 6 161908825-0006	WP249 PM Canyon Drive	1938.60	0.2100	0	Chrysotile	1 0	0.0009	4.80	0.00095
The Ca present is from the nearby matrix that could not be avoided.									
90508-OFD-PMT-0 7 161908825-0007	WP084A PM SE Upper Overlook	1953.90	0.2100	0	None Detected		0.0009	<4.80	<0.0009
90508-OFD-PMT-0 8 161908825-0008	WP087A PM Intake Yard	1944.00	0.2100	2	None Detected		0.0009	<4.80	<0.0010
90508-OFD-PMT-F B1 161908825-0009	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90508-OFD-PMT-F B2 161908825-0010	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A



# EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / [indianapolislaboratory@emsl.com](mailto:indianapolislaboratory@emsl.com)

EMSL Order: 161908825

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.08 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/10/2019 8:35 AM

Analysis Date: 05/14/2019 - 05/15/2019

Collected Date: 05/08/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Craig Nixon (10)

Richard Harding, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 05/14/2019 12:06:55



# EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / [indianapolislab@emsl.com](mailto:indianapolislab@emsl.com)

EMSL Order: 161908824

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.08 Burma Rd. (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/10/2019 8:35 AM

Analysis Date: 05/15/2019

Collected Date: 05/08/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90508-OFD-BPT-0 1 161908824-0001	WP088A AM Burma Road 01	1934.10	0.2100	0	None Detected		0.0010	<4.80	<0.0010
90508-OFD-BPT-0 2 161908824-0002	WP088A PM Burma Road 01	1953.90	0.2100	1	None Detected		0.0009	<4.80	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90508-OFD-BPT-F B1 161908824-0003	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90508-OFD-BPT-F B2 161908824-0004	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Analyst(s)

Craig Nixon (4)

Richard Harding, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 05/15/2019 09:16:09





# EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / [indianapolislaboratory@emsl.com](mailto:indianapolislaboratory@emsl.com)

EMSL Order: 161908823

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.08 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/10/2019 8:35 AM

Analysis Date: 05/13/2019

Collected Date: 05/08/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90508-OFD-LRP-01 161908823-0001	WP009A AM Launch Ramp Parking	1903.70	0.2100	2	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90508-OFD-LRP-02 161908823-0002	WP081A AM Launch Ramp Turnaround	1918.00	0.2100	1	None Detected		0.0010	<4.80	<0.0010
90508-OFD-LRP-03 161908823-0003	WP009A PM Launch Ramp Parking	1949.40	0.2100	0	None Detected		0.0009	<4.80	<0.0009
90508-OFD-LRP-04 161908823-0004	WP081A PM Launch Ramp Turnaround	1962.00	0.1970	0	None Detected		0.0010	<5.10	<0.0010
90508-OFD-LRP-F B1 161908823-0005	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90508-OFD-LRP-F B2 161908823-0006	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Analyst(s)

Craig Nixon (6)

Richard Harding, Laboratory Manager  
or other approved signatory

This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for data reported that relies on information provided by the client, sample collection activities, or analytical method limitations. EMSL maintains liability limited to the cost of analysis. Interpretation and use of test results are the responsibility of the client. All samples were received in acceptable condition unless otherwise noted. The analyses above were performed with a 25% overload criteria as per EPA 40 CFR Part 763 Subpart E. A 10% overload criteria can be applied at client's request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 05/13/2019 07:28:39



# EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

Tel/Fax: (407) 599-5887 / (407) 599-9063

<http://www.EMSL.com> / [orlandolab@emsl.com](mailto:orlandolab@emsl.com)

EMSL Order: 341907600

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05-09 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/11/2019 8:23 AM

Analysis Date: 05/15/2019 - 05/16/2019

Collected Date: 05/09/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90509-OFD-PMT-01 341907600-0001	WP083A AM DAN BEEBE TRAIL	1935.90	0.2030	5	None Detected			0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90509-OFD-PMT-02 341907600-0002	WP249 AM CANYON DRIVE	1928.70	0.2030	3	Actinolite	0	1	0.0010	4.90	0.00098
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90509-OFD-PMT-03 341907600-0003	WP084A AM SE UPPER OVERLOOK	1913.50	0.2030	6	None Detected			0.0010	<4.90	<0.0010
90509-OFD-PMT-04 341907600-0004	WP087A AM INTAKE YARD	1928.70	0.2030	3	Actinolite	2	0	0.0010	9.80	0.0020
90509-OFD-PMT-05 341907600-0005	WP083A PM DAN BEEBE TRAIL	1944.90	0.2030	9	None Detected			0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90509-OFD-PMT-06 341907600-0006	WP249 PM CANYON DRIVE	1954.80	0.2030	4	None Detected			0.0010	<4.90	<0.0010
90509-OFD-PMT-07 341907600-0007	WP084A PM SE UPPER OVERLOOK	1947.60	0.2030	9	None Detected			0.0010	<4.90	<0.0010
90509-OFD-PMT-08 341907600-0008	WP087A PM INTAKE YARD	1956.60	0.2030	2	None Detected			0.0010	<4.90	<0.0010
90509-OFD-PMT-F B1 341907600-0009	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
90509-OFD-PMT-F B2 341907600-0010	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A



# EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

Tel/Fax: (407) 599-5887 / (407) 599-9063

<http://www.EMSL.com> / [orlandolab@emsl.com](mailto:orlandolab@emsl.com)

EMSL Order: 341907600

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05-09 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/11/2019 8:23 AM

Analysis Date: 05/15/2019 - 05/16/2019

Collected Date: 05/09/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Cheryl Rivadeneyra (10)

Carlos Rivadeneyra, Laboratory Director  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Initial report from: 05/15/2019 13:41:03



# EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

Tel/Fax: (407) 599-5887 / (407) 599-9063

<http://www.EMSL.com> / [orlandolab@emsl.com](mailto:orlandolab@emsl.com)

EMSL Order: 341907598

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.09 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/11/2019 8:23 AM

Analysis Date: 05/13/2019


Collected Date: 05/09/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm <sup>2</sup> )	(S/cc)
90509-OFD-BPT-0 1	WP088A AM Burma Road 01	1946.70	0.2030	4	Actinolite	1	0	0.0010	4.90	0.00097
341907598-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90509-OFD-BPT-0 2	WP088A PM Burma Road 01	1933.20	0.2030	7	Actinolite	1	1	0.0010	9.80	0.0020
341907598-0002										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90509-OFD-BPT-F B1	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
341907598-0003										
90509-OFD-BPT-F B2	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
341907598-0004										

Analyst(s)

Cheryl Rivadeneyra (4)

  
Carlos Rivadeneyra, Laboratory Director  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Initial report from: 05/13/2019 16:18:49



# EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

Tel/Fax: (407) 599-5887 / (407) 599-9063

<http://www.EMSL.com> / [orlandolab@emsl.com](mailto:orlandolab@emsl.com)

EMSL Order: 341907599

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.09 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/11/2019 8:23 AM

Analysis Date: 05/14/2019

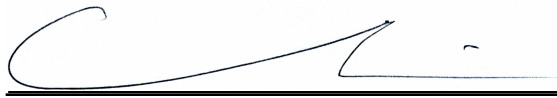
Collected Date: 05/09/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90509-OFD-LRP-01 341907599-0001	WP009A AM Launch Ramp Parking	1918.90	0.2030	12	Actinolite	0	2	0.0010	9.80	0.0020
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90509-OFD-LRP-02 341907599-0002	WP081A AM Launch Ramp Turnaroun	1913.50	0.2030	1	None Detected			0.0010	<4.90	<0.0010
90509-OFD-LRP-03 341907599-0003	WP009A PM Launch Ramp Parking	1942.20	0.2030	12	None Detected			0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90509-OFD-LRP-04 341907599-0004	WP081A PM Lauch Ramp Turnaround	1927.70	0.2030	4	Chrysotile	1	0	0.0010	4.90	0.00098
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90509-OFD-LRP-F B1 341907599-0005	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
90509-OFD-LRP-F B2 341907599-0006	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A

Analyst(s)

Cheryl Rivadeneyra (6)



Carlos Rivadeneyra, Laboratory Director  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Initial report from: 05/14/2019 19:07:21



# LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / [gardengrovelab@latestesting.com](mailto:gardengrovelab@latestesting.com)

LA Testing Order: 331910055

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.10 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/14/2019 10:45 AM

Analysis Date: 05/15/2019 - 05/17/2019

Collected Date: 05/10/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90510-OFD-PMT-0 1 331910055-0001	WP083A AM Dan Beebe Trail	1913.50	0.2080	8	Actinolite	1	0	0.0010	4.80 0.00097
90510-OFD-PMT-0 2 331910055-0002	WP249 AM Canyon Drive	1906.40	0.2080	4	Actinolite	0	1	0.0010	4.80 0.00097
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90510-OFD-PMT-0 3 331910055-0003	WP084A AM SE Upper Overlook	1918.90	0.2080	23	Actinolite	1	5	0.0010	29.00 0.0058
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90510-OFD-PMT-0 4 331910055-0004	WP087A AM Intake Yard	1933.20	0.2080	7	None Detected			0.0010	<4.80 <0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90510-OFD-PMT-0 5 331910055-0005	WP083A PM Dan Beebe Trail	1952.10	0.2080	5	None Detected			0.0009	<4.80 <0.0010
90510-OFD-PMT-0 6 331910055-0006	WP249 PM Canyon Drive	1952.10	0.2080	6	None Detected			0.0009	<4.80 <0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90510-OFD-PMT-0 7 331910055-0007	WP084A PM SE Upper Overlook	1949.40	0.2080	3	Actinolite	3	0	0.0010	14.00 0.0028
90510-OFD-PMT-0 8 331910055-0008	WP087A PM Intake Yard	1946.70	0.2080	6	None Detected			0.0010	<4.80 <0.0010
90510-OFD-PMT-F B1 331910055-0009	Field blank 1	0.00	0.1300	0	None Detected			N/A	<7.70 N/A
90510-OFD-PMT-F B2 331910055-0010	Field blank 2	0.00	0.1300	0	None Detected			N/A	<7.70 N/A



## LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / [gardengrovelab@latesting.com](mailto:gardengrovelab@latesting.com)

LA Testing Order: 331910055

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.10 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/14/2019 10:45 AM

Analysis Date: 05/15/2019 - 05/17/2019

Collected Date: 05/10/2019

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

William Bradford (10)

Michael DeCavallas, Laboratory Manager  
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial report from: 05/17/2019 12:50:12



# LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / [gardengrovelab@latesting.com](mailto:gardengrovelab@latesting.com)

LA Testing Order: 331910058

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.10 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/14/2019 10:45 AM

Analysis Date: 05/16/2019

Collected Date: 05/10/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90510-OFD-BPT-01 331910058-0001	WP088A AM Burma Road 01	1936.80	0.2090	2	None Detected		0.0009	<4.80	<0.0010
90510-OFD-BPT-02 331910058-0002	WP088A PM Burma Road 01	1941.30	0.2090	2	None Detected		0.0009	<4.80	<0.0010
90510-OFD-BPT-F B1 331910058-0003	Field blank 1	0.00	0.1230	0	None Detected		N/A	<8.10	N/A
90510-OFD-BPT-F B2 331910058-0004	Field blank 2	0.00	0.1230	0	None Detected		N/A	<8.10	N/A

Analyst(s)

Jeffrey Deboo (4)

Michael DeCavallas, Laboratory Manager  
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing Huntington Beach, CA

Initial report from: 05/17/2019 07:09:52





# LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / [gardengrovelab@latestesting.com](mailto:gardengrovelab@latestesting.com)

LA Testing Order: 331910057

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.10 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/14/2019 10:45 AM

Analysis Date: 05/16/2019 - 05/17/2019

Collected Date: 05/10/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90510-OFD-LRP-01 331910057-0001	WP009A AM Launch Ramp Parking	1928.70	0.2090	19	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90510-OFD-LRP-02 331910057-0002	WP081A AM Launch Ramp Turnaround	1928.70	0.2090	4	None Detected		0.0010	<4.80	<0.0010
90510-OFD-LRP-03 331910057-0003	WP009A PM Launch Ramp Parking	1949.40	0.2090	9	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90510-OFD-LRP-04 331910057-0004	WP081A PM Launch Ramp Turnaround	1954.80	0.2090	8	None Detected		0.0009	<4.80	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90510-OFD-LRP-F B1 331910057-0005	Field blank 1	0.00	0.1230	0	None Detected		N/A	<8.10	N/A
90510-OFD-LRP-F B2 331910057-0006	Field blank 2	0.00	0.1230	0	None Detected		N/A	<8.10	N/A

Analyst(s)

Larry Kolk (6)

Michael DeCavallas, Laboratory Manager  
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing Huntington Beach, CA

Initial report from: 05/17/2019 10:05:13



# EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043

Tel/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com> / [buffalolab@emsl.com](mailto:buffalolab@emsl.com)

EMSL Order: 141902056

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.11 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/14/2019 8:45 AM

Analysis Date: 05/15/2019 - 05/16/2019

Collected Date: 05/11/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90511-OFD-PMT-0 1 141902056-0001	WP 083A AM Dan Beebe Trail	1916.20	0.2130	0	None Detected		0.0009	<4.70	<0.0009
90511-OFD-PMT-0 2 141902056-0002	WP 249 AM Canyon Drive	1916.20	0.2130	0	None Detected		0.0009	<4.70	<0.0009
90511-OFD-PMT-0 3 141902056-0003	WP 084A AM SE Upper Overlook	1923.30	0.2130	0	None Detected		0.0009	<4.70	<0.0009
90511-OFD-PMT-0 4 141902056-0004	WP087A AM Intake Yard	1933.20	0.2000	0	None Detected		0.0010	<5.00	<0.0010
90511-OFD-PMT-0 5 141902056-0005	WP 083A PM Dan Beebe Trail	1972.90	0.2000	0	None Detected		0.0010	<5.00	<0.0010
90511-OFD-PMT-0 6 141902056-0006	WP 249 PM Canyon Drive	1976.40	0.2000	0	None Detected		0.0010	<5.00	<0.0010
90511-OFD-PMT-0 7 141902056-0007	WP 084A PM SE Upper Overlook	1984.50	0.2000	0	None Detected		0.0010	<5.00	<0.0010
90511-OFD-PMT-0 8 141902056-0008	WP 087A PM Intake Yard	1984.50	0.2000	0	None Detected		0.0010	<5.00	<0.0010
90511-OFD-PMT-F B01 141902056-0009	Field Blank 1	0.00	0.1330	0	None Detected		N/A	<7.50	N/A
90511-OFD-PMT-F B02 141902056-0010	Field Blank 2	0.00	0.1330	0	None Detected		N/A	<7.50	N/A



# EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043

Tel/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com> / [buffalolab@emsl.com](mailto:buffalolab@emsl.com)

EMSL Order: 141902056

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.11 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/14/2019 8:45 AM

Analysis Date: 05/15/2019 - 05/16/2019

Collected Date: 05/11/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Mark Tate (8)

Shauna Strnad (2)

Rhonda McGee, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY

Initial report from: 05/16/2019 07:44:23



# EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043

Tel/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com> / [buffalolab@emsl.com](mailto:buffalolab@emsl.com)

EMSL Order: 141902055

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.11 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/14/2019 8:45 AM

Analysis Date: 05/15/2019

Collected Date: 05/11/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)
90511-OFD-BPT-0 1 141902055-0001	WP088A AM Burma Rd 01	1934.10	0.2000	0	None Detected			0.0010	<5.00	<0.0010
90511-OFD-BPT-0 2 141902055-0002	WP088A PM Burma Rd 01	1956.60	0.2000	0	None Detected			0.0010	<5.00	<0.0010
90511-OFD-BPT-F B1 141902055-0003	Field Blank 1	0.00	0.1330	0	None Detected			N/A	<7.50	N/A
90511-OFD-BPT-F B2 141902055-0004	Field Blank 2	0.00	0.1330	0	None Detected			N/A	<7.50	N/A

Analyst(s)

Mark Tate (4)

Rhonda McGee, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY

Initial report from: 05/15/2019 07:34:15



# EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043  
 Tel/Fax: (716) 651-0030 / (716) 651-0394  
<http://www.EMSL.com / buffalolab@emsl.com>

EMSL Order: 141902054  
 Customer ID: SMGS78B  
 Customer PO:  
 Project ID: Oroville EM OP

**Attention:** Dave Beadle, CIH  
 Safety Management Systems  
 1001 Brad Freeman Trail  
 Trailer #2 / Safety Mgmt Systems  
 Oroville, CA 95965  
**Project:** 2019.05.11 Launch Ramp (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 5/14/2019 8:45 AM  
**Analysis Date:** 05/15/2019 - 05/16/2019  
**Collected Date:** 05/11/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90511-OFD-LRP-01 141902054-0001	WP009A AM Launch Ramp Parking	1916.20	0.2130	0	None Detected		0.0009	<4.70	<0.0009
90511-OFD-LRP-02 141902054-0002	WP081A AM Launch Ramp Turnaround	1903.70	0.2130	0	None Detected		0.0010	<4.70	<0.0010
90511-OFD-LRP-03 141902054-0003	WP009A PM Launch Ramp Parking	2006.10	0.2000	0	None Detected		0.0010	<5.00	<0.0010
90511-OFD-LRP-04 141902054-0004	WP081A PM Launch Ramp Turnaround	1964.80	0.2000	0	None Detected		0.0010	<5.00	<0.0010
90511-OFD-LRP-F B01 141902054-0005	Field Blank 1	0.00	0.1330	0	None Detected		N/A	<7.50	N/A
90511-OFD-LRP-F B02 141902054-0006	Field Blank 2	0.00	0.1330	0	None Detected		N/A	<7.50	N/A

Analyst(s)

Mark Tate (4)

Shauna Strnad (2)

*Rhonda McGee*

Rhonda McGee, Laboratory Manager  
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY

Initial report from: 05/16/2019 05:53:49



# LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / [pasadenalab@latesting.com](mailto:pasadenalab@latesting.com)

LA Testing Order: 321911306

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.12 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/14/2019 9:25 AM

Analysis Date: 05/16/2019

Collected Date: 05/12/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90512-OFD-PMT-01 321911306-0001	WP 083A AM Dan Beebe Trail	1935.00	0.2080	1	Actinolite	0 2	0.0010	9.60	0.0019
90512-OFD-PMT-02 321911306-0002	WP 249 AM Canyon Drive	1936.80	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90512-OFD-PMT-03 321911306-0003	WP 084A AM SE Upper Overlook	1921.60	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90512-OFD-PMT-04 321911306-0004	WP 087A AM Intake Yard	1953.00	0.2080	3	None Detected		0.0009	<4.80	<0.0010
90512-OFD-PMT-05 321911306-0005	WP 083A PM Dan Beebe Trail	1944.80	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90512-OFD-PMT-06 321911306-0006	WP 249 PM Canyon Drive	1934.90	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90512-OFD-PMT-07 321911306-0007	WP 084A PM SE Upper Overlook	1932.20	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90512-OFD-PMT-08 321911306-0008	WP 087A PM Intake Yard	1942.10	0.2080	6	Actinolite	1 0	0.0010	4.80	0.00095
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90512-OFD-PMT-F B1 321911306-0009	Field blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90512-OFD-PMT-F B2 321911306-0010	Field blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A



## LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / [pasadenalab@latesting.com](mailto:pasadenalab@latesting.com)

LA Testing Order: 321911306

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.12 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/14/2019 9:25 AM

Analysis Date: 05/16/2019

Collected Date: 05/12/2019

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Kyeong Corbin (10)

Jerry Drapala Ph.D, Laboratory Manager  
or other approved signatory

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Samples analyzed by LA Testing South Pasadena, CA

Initial report from: 05/16/2019 15:12:37



# LA Testing

520 Mission Street South Pasadena, CA 91030  
 Tel/Fax: (323) 254-9960 / (323) 254-9982  
<http://www.LATesting.com> / [pasadenalab@latesting.com](mailto:pasadenalab@latesting.com)

**LA Testing Order:** 321911303  
**Customer ID:** SMGS78B  
**Customer PO:**  
**Project ID:** Oroville EM OP


**Attention:** Dave Beadle, CIH  
 Safety Management Systems  
 1001 Brad Freeman Trail  
 Trailer #2 / Safety Mgmt Systems  
 Oroville, CA 95965  
**Project:** 2019.05.12 Burma Rd (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 5/14/2019 9:25 AM  
**Analysis Date:** 05/14/2019  
**Collected Date:** 05/12/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90512-OFD-BPT-01 321911303-0001	WP088A AM Burma Road 01	1917.00	0.2080	0	None Detected			0.0010	<4.80	<0.0010
90512-OFD-BPT-02 321911303-0002	WP088A PM Burma Road 01	1946.70	0.2080	6	Actinolite	0	3	0.0010	14.00	0.0029
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90512-OFD-BPT-F B1 321911303-0003	Field blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
90512-OFD-BPT-F B2 321911303-0004	Field blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s)  
 Kyeong Corbin (4)

  
 Jerry Drapala Ph.D, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by LA Testing South Pasadena, CA

Initial report from: 05/14/2019 15:13:07





# LA Testing

520 Mission Street South Pasadena, CA 91030  
 Tel/Fax: (323) 254-9960 / (323) 254-9982  
<http://www.LATesting.com / pasadenalab@latesting.com>

**LA Testing Order:** 321911305  
**Customer ID:** SMGS78B  
**Customer PO:**  
**Project ID:** Oroville EM OP


**Attention:** Dave Beadle, CIH  
 Safety Management Systems  
 1001 Brad Freeman Trail  
 Trailer #2 / Safety Mgmt Systems  
 Oroville, CA 95965  
**Project:** 2019.05.12 Launch Ramp (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 5/14/2019 9:25 AM  
**Analysis Date:** 05/14/2019 - 05/15/2019  
**Collected Date:** 05/12/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90512-OFD-LRP-01 321911305-0001	WP009A AM Launch Ramp Parking	1926.90	0.2080	3	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90512-OFD-LRP-02 321911305-0002	WP081A AM Launch Ramp Turnaround	1934.10	0.2080	5	None Detected		0.0010	<4.80	<0.0010
90512-OFD-LRP-03 321911305-0003	WP009A PM Launch Ramp Parking	1959.30	0.2080	3	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90512-OFD-LRP-04 321911305-0004	WP081A PM Launch Ramp Turnaround	1954.70	0.2080	2	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90512-OFD-LRP-F B1 321911305-0005	Field blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90512-OFD-LRP-F B2 321911305-0006	Field blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)  
 Kyeong Corbin (6)

  
 Jerry Drapala Ph.D, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by LA Testing South Pasadena, CA

Initial report from: 05/15/2019 13:58:00



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904534

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.13 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/15/2019 9:25 AM

Analysis Date: 05/16/2019

Collected Date: 05/13/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90513-OFD-PMT-0 1 411904534-0001	WP 083A AM Dan Beebe Trail	1951.20	0.2080	2	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
90513-OFD-PMT-0 2 411904534-0002	WP 249 AM Canyon Drive	1931.40	0.2080	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
90513-OFD-PMT-0 3 411904534-0003	WP 084A AM SE Upper Overlook	1928.70	0.2080	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
90513-OFD-PMT-0 4 411904534-0004	WP 087A AM Intake Yard	1933.20	0.2080	5	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
90513-OFD-PMT-0 5 411904534-0005	WP 083A PM Dan Beebe Trail	1941.30	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90513-OFD-PMT-0 6 411904534-0006	WP 249 PM Canyon Drive	1948.50	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90513-OFD-PMT-0 7 411904534-0007	WP 084A PM SE Upper Overlook	1958.30	0.2080	0	None Detected		0.0009	<4.80	<0.0010
90513-OFD-PMT-0 8 411904534-0008	WP 087A PM Intake Yard	1970.20	0.2080	0	None Detected		0.0009	<4.80	<0.0009
90513-OFD-PMT-F B01 411904534-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90513-OFD-PMT-F B02 411904534-0010	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904534

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.13 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/15/2019 9:25 AM

Analysis Date: 05/16/2019

Collected Date: 05/13/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Aaron Hartley (10)

Lee Plumley, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/16/2019 14:26:25



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904536

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

**Attention:** Dave Beadle, CIH  
Safety Management Systems  
1001 Brad Freeman Trail  
Trailer #2 / Safety Mgmt Systems  
Oroville, CA 95965  
**Project:** 2019.05.13 Burma Rd. (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 5/15/2019 9:25 AM  
**Analysis Date:** 05/16/2019  
**Collected Date:** 05/13/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)
90513-OFD-BPT-0 1 411904536-0001	WP088A AM Burma Road 01	1956.60	0.2080	0	None Detected			0.0009	<4.80	<0.0010
90513-OFD-BPT-0 2 411904536-0002	WP088A PM Burma Road 01	1942.10	0.2080	0	None Detected			0.0010	<4.80	<0.0010
90513-OFD-BPT-F B1 411904536-0003	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
90513-OFD-BPT-F B2 411904536-0004	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s)

Aaron Hartley (4)

Lee Plumley, Laboratory Manager  
or other approved signatory

This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for data reported that relies on information provided by the client, sample collection activities, or analytical method limitations. EMSL maintains liability limited to the cost of analysis. Interpretation and use of test results are the responsibility of the client. All samples were received in acceptable condition unless otherwise noted. The analyses above were performed with a 25% overload criteria as per EPA 40 CFR Part 763 Subpart E. A 10% overload criteria can be applied at client's request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/16/2019 11:44:38



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904535

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.13 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/15/2019 9:25 AM

Analysis Date: 05/16/2019

Collected Date: 05/13/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90513-OFD-LRP-01 411904535-0001	WP009A AM Launch Ramp Parking	1909.90	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90513-OFD-LRP-02 411904535-0002	WP081A AM Launch Ramp Turnaround	1916.20	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90513-OFD-LRP-03 411904535-0003	WP009A PM Launch Ramp Parking	1967.50	0.2080	0	None Detected		0.0009	<4.80	<0.0009
90513-OFD-LRP-04 411904535-0004	WP081A PM Launch Ramp Turnaround	1988.30	0.1950	0	None Detected		0.0010	<5.10	<0.0010
90513-OFD-LRP-F B01 411904535-0005	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90513-OFD-LRP-F B02 411904535-0006	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

Aaron Hartley (6)

Lee Plumley, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/16/2019 14:26:49



# EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / [lasvegaslab@EMSL.com](mailto:lasvegaslab@EMSL.com)

EMSL Order: 311901068

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.14 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/16/2019 9:00 AM

Analysis Date: 05/17/2019 - 05/20/2019

Collected Date: 05/14/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90514-OFD-PMT-0 1 311901068-0001	WP083A AM Dan Beebe Trail	1944.00	0.2080	4	None Detected		0.0010	<4.80	<0.0010
90514-OFD-PMT-0 2 311901068-0002	WP249 AM Canyon Drive	1939.50	0.2080	11	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90514-OFD-PMT-0 3 311901068-0003	WP084A AM SE Upper Overlook	1925.20	0.2080	4	None Detected		0.0010	<4.80	<0.0010
90514-OFD-PMT-0 4 311901068-0004	WP087A AM Intake Yard	1927.80	0.2080	12	None Detected		0.0010	<4.80	<0.0010
90514-OFD-PMT-0 5 311901068-0005	WP083A PM Dan Beebe Trail	1926.90	0.2080	6	None Detected		0.0010	<4.80	<0.0010
90514-OFD-PMT-0 6 311901068-0006	WP249 PM Canyon Drive	1944.00	0.2080	2	None Detected		0.0010	<4.80	<0.0010
90514-OFD-PMT-0 7 311901068-0007	WP084A PM SE Upper Overlook	1941.30	0.2080	6	None Detected		0.0010	<4.80	<0.0010
90514-OFD-PMT-0 8 311901068-0008	WP087A PM Intake Yard	1948.50	0.2080	7	None Detected		0.0010	<4.80	<0.0010
90514-OFD-PMT-F B01 311901068-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90514-OFD-PMT-F B02 311901068-0010	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A



# EMSL Analytical, Inc.

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<http://www.EMSL.com> / [lasvegaslab@EMSL.com](mailto:lasvegaslab@EMSL.com)

EMSL Order: 311901068

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.14 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/16/2019 9:00 AM

Analysis Date: 05/17/2019 - 05/20/2019

Collected Date: 05/14/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

William Bradford (10)

Shannon Ferguson, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial report from: 05/22/2019 13:54:27



# EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / [lasvegaslab@EMSL.com](mailto:lasvegaslab@EMSL.com)

EMSL Order: 311901066

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.14 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/16/2019 9:00 AM

Analysis Date: 05/20/2019 - 05/21/2019

Collected Date: 05/14/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)
90514-OFD-BPT-0 1 311901066-0001	WP088A AM Burma Road 01	1946.70	0.2080	6	None Detected			0.0010	<4.80	<0.0010
90514-OFD-BPT-0 2 311901066-0002	WP088A PM Burma Road 01	1934.10	0.2080	3	None Detected			0.0010	<4.80	<0.0010
90514-OFD-BPT-F B1 311901066-0003	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
90514-OFD-BPT-F B2 311901066-0004	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s)

William Bradford (4)

Shannon Ferguson, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial report from: 05/22/2019 13:14:05





# EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / [lasvegaslab@EMSL.com](mailto:lasvegaslab@EMSL.com)

EMSL Order: 311901067

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.14 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/16/2019 9:00 AM

Analysis Date: 05/21/2019 - 05/22/2019

Collected Date: 05/16/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90514-OFD-LRP-01 311901067-0001	WP009A AM Launch Ramp Parking	1907.20	0.2080	12	None Detected		0.0010	<4.80	<0.0010
90514-OFD-LRP-02 311901067-0002	WP081A AM Launch Ramp Turnaround	1926.80	0.2080	3	None Detected		0.0010	<4.80	<0.0010
90514-OFD-LRP-03 311901067-0003	WP009A PM Launch Ramp Parking	1949.40	0.2080	9	None Detected		0.0010	<4.80	<0.0010
90514-OFD-LRP-04 311901067-0004	WP081A PM Launch Ramp Turnaround	1942.20	0.2080	10	None Detected		0.0010	<4.80	<0.0010
90514-OFD-LRP-F B1 311901067-0005 3-4	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90514-OFD-LRP-F B2 311901067-0006	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

William Bradford (6)

Shannon Ferguson, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial report from: 05/22/2019 13:16:30



# EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 531900629

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.15 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/17/2019 11:08 AM

Analysis Date: 05/23/2019

Collected Date: 05/15/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90515-OFD-PMT-0 1 531900629-0001	WP083A AM Dan Beebe Trail	1924.20	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-PMT-0 2 531900629-0002	WP249 AM Canyon Drive	1926.00	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-PMT-0 3 531900629-0003	WP084A AM SE Upper Overlook	1928.70	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-PMT-0 4 531900629-0004	WP087A AM Intake Yard	1923.30	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-PMT-0 5 531900629-0005	WP083A PM Dan Beebe Trail	1941.30	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-PMT-0 6 531900629-0006	WP249 PM Canyon Drive	1944.00	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-PMT-0 7 531900629-0007	WP084A PM SE Upper Overlook	1956.60	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-PMT-0 8 531900629-0008	WP087A PM Intake Yard	1954.80	0.2030	1	None Detected		0.0010	<4.90	<0.0010
90515-OFD-PMT-F B01 531900629-0009	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
90515-OFD-PMT-F B02 531900629-0010	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	N/A



## EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com> / [rochesterlab@EMSL.com](mailto:rochesterlab@EMSL.com)

EMSL Order: 531900629

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.15 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/17/2019 11:08 AM

Analysis Date: 05/23/2019

Collected Date: 05/15/2019

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Peter Donato (10)

Peter Donato Asbestos Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 05/23/2019 15:19:50



# EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 531900627

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.15 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/17/2019 10:48 AM

Analysis Date: 05/22/2019 - 05/23/2019

Collected Date: 05/15/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90515-OFD-BPT-0 1 531900627-0001	WP088A AM Burma Road 01	1928.70	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-BPT-0 2 531900627-0002	WP088A PM Burma Road 01	1491.10	0.2670	0	None Detected		0.0010	<3.70	<0.0010
90515-OFD-BPT-F B1 531900627-0003	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
90515-OFD-BPT-F B2 531900627-0004	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	N/A

Analyst(s)

Peter Donato (4)

Peter Donato Asbestos Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 05/23/2019 12:12:50



# EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 531900628

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.15 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/17/2019 10:56 AM

Analysis Date: 05/22/2019 - 05/23/2019

Collected Date: 05/15/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90515-OFD-LRP-01 531900628-0001	WP009A AM Launch Ramp Parking	1925.10	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-LRP-02 531900628-0002	WP081A AM Launch Ramp Turnaround	1931.20	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-LRP-03 531900628-0003	WP009A PM Launch Ramp Parking	1948.40	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-LRP-04 531900628-0004	WP081A PM Launch Ramp Turnaround	1967.50	0.2030	0	None Detected		0.0010	<4.90	<0.0010
90515-OFD-LRP-F B01 531900628-0005	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
90515-OFD-LRP-F B02 531900628-0006	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	N/A

Analyst(s)

Peter Donato (6)

Peter Donato Asbestos Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 05/23/2019 12:43:18



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904790

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.16 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/21/2019 9:25 AM

Analysis Date: 05/22/2019

Collected Date: 05/16/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90516-OFD-PMT-0 1 411904790-0001	WP 083A AM Dan Beebe Trail	1941.30	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-PMT-0 2 411904790-0002	WP 249 AM Canyon Drive	1934.10	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-PMT-0 3 411904790-0003	WP 089A AM SE Upper Overlook	1935.90	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-PMT-0 4 411904790-0004	WP 087A AM Intake Yard	1938.60	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-PMT-0 5 411904790-0005	WP 083A PM Dan Beebe Trail	1936.80	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-PMT-0 6 411904790-0006	WP 249 PM Canyon Drive	1929.60	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-PMT-0 7 411904790-0007	WP 089A PM SE Upper Overlook	1946.70	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-PMT-0 8 411904790-0008	WP 087A PM Intake Yard	1953.90	0.2080	0	None Detected		0.0009	<4.80	<0.0010
90516-OFD-PMT-F B01 411904790-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90516-OFD-PMT-F B02 411904790-0010	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904790

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.16 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/21/2019 9:25 AM

Analysis Date: 05/22/2019

Collected Date: 05/16/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)

Analyst(s)

Derrick Young (10)

Lee Plumley, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/23/2019 08:16:46



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904792

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

**Attention:** Dave Beadle, CIH  
Safety Management Systems  
1001 Brad Freeman Trail  
Trailer #2 / Safety Mgmt Systems  
Oroville, CA 95965  
**Project:** 2019.05.16 Burma Rd. (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 5/21/2019 9:25 AM  
**Analysis Date:** 05/21/2019  
**Collected Date:** 05/16/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm <sup>2</sup> )	(S/cc)
90516-OFD-BPT-0 1 411904792-0001	WP088A AM Burma Road 01	1923.30	0.2080	0	None Detected			0.0010	<4.80	<0.0010
90516-OFD-BPT-0 2 411904792-0002	WP088A PM Burma Road 01	1944.00	0.2080	0	None Detected			0.0010	<4.80	<0.0010
90516-OFD-BPT-F B1 411904792-0003	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
90516-OFD-BPT-F B2 411904792-0004	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s)

Derrick Young (4)

Lee Plumley, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/22/2019 08:51:28





# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411904791

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2019.05.16 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 5/21/2019 9:25 AM

Analysis Date: 05/22/2019

Collected Date: 05/16/2019

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
90516-OFD-LRP-01 411904791-0001	WP009A AM Launch Ramp Parking	1934.90	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-LRP-02 411904791-0002	WP081A AM Launch Ramp Turnaround	1923.30	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-LRP-03 411904791-0003	WP009A PM Launch Ramp Parking	1943.00	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90516-OFD-LRP-04 411904791-0004	WP081A PM Launch Ramp Turnaround	1962.00	0.2080	1	None Detected		0.0009	<4.80	<0.0009
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
90516-OFD-LRP-F B01 411904791-0005	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90516-OFD-LRP-F B02 411904791-0006	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

Derrick Young (6)

Lee Plumley, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/23/2019 06:54:45