

## Appendix A – Laboratory Reports



# 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: 341812932

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: 2018.09.21 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/24/2018 9:00 AM

Analysis Date: 09/25/2018 - 09/27/2018

Collected Date: 09/21/2018

## 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)
80921-OFD-PMT-0 1 341812932-0001	WP083A AM Dan Beebe Trail	1914.30	0.2110	6	Actinolite	0 2	0.0010	9.50 0.0019
80921-OFD-PMT-0 2 341812932-0002	WP249 AM Canyon Drive	1888.40	0.2110	12	Actinolite	1 0	0.0010	4.70 0.00097
Non-asbestos structures reported include a contribution from non-regulated amphiboles.								
80921-OFD-PMT-0 3 341812932-0003	WP084A AM SE Upper Overlook	1884.60	0.2110	3	None Detected		0.0010	<4.70 <0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.								
80921-OFD-PMT-0 4 341812932-0004	WP246 AM Intake Yard	1865.30	0.2110	2	Chrysotile	0 1	0.0010	4.70 0.00098
80921-OFD-PMT-0 5 341812932-0005	WP083A PM Dan Beebe Trail	1996.50	0.1980	6	None Detected		0.0010	<5.00 <0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.								
80921-OFD-PMT-0 6 341812932-0006	WP249 PM Canyon Drive	1986.40	0.1980	6	Actinolite	0 1	0.0010	5.00 0.00098
Non-asbestos structures reported include a contribution from non-regulated amphiboles.								
80921-OFD-PMT-0 7 341812932-0007	WP084A PM SE Upper Overlook	1994.60	0.1980	2	Chrysotile	0 1	0.0010	5.00 0.00097
Non-asbestos structures reported include a contribution from non-regulated amphiboles.								
80921-OFD-PMT-0 8 341812932-0008	WP246 PM Intake Yard	2010.10	0.1980	0	None Detected		0.0010	<5.00 <0.0010
80921-OFD-PMT-F B1 341812932-0009	Field Blank 1	0.00	0.1240	0	None Detected		N/A	<8.10 N/A
80921-OFD-PMT-F B2 341812932-0010	Field Blank 2	0.00	0.1240	0	None Detected		N/A	<8.10 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: 341812932

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: 2018.09.21 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/24/2018 9:00 AM

Analysis Date: 09/25/2018 - 09/27/2018

Collected Date: 09/21/2018

## 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)

Gerald Iannuzzi (10)

Carlos Rivadeneyra, Laboratory Director  
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. Orlando, FL

Initial report from: 09/27/2018 10:25:28



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

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

EMSL Order: 041828746

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: 2018.09.21 Burma Road (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/24/2018 9:00 AM

Analysis Date: 09/24/2018 - 09/25/2018

Collected Date: 09/21/2018

## 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)
80921-OFD-BPT-0 1	WP086A AM Burma Road 01	1969.80	0.2080	4	Actinolite Tremolite	1 0	2 1	0.0009	14.00 4.80	0.0028 0.00094
041828746-0001						Total for all types.....			18.80	0.0037
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80921-OFD-BPT-0 2	WP086A PM Burma Road 01	1878.00	0.2080	3	Actinolite	4	2	0.0010	29.00	0.0059
041828746-0002										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80921-OFD-BPT-F B1	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
041828746-0003										
80921-OFD-BPT-F B2	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
041828746-0004										

Analyst(s)

Patrick Carr (4)

Benjamin Ellis, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. 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 sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from: 09/28/2018 09:02:18



# 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: 341812933

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: 2019.09.21 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/24/2018 9:00 AM

Analysis Date: 09/25/2018

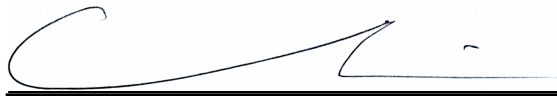
Collected Date: 09/21/2018

## 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)
80921-OFD-LRP-0 1 341812933-0001	WP009A AM Launch Ramp Parking	1868.40	0.2110	15	None Detected		0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80921-OFD-LRP-0 2 341812933-0002	WP081A AM Launch Ramp Turnaround	1868.40	0.2110	6	None Detected		0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80921-OFD-LRP-0 3 341812933-0003	WP009A PM Launch Ramp Parking	2019.60	0.1980	0	Actinolite	1 0	0.0010	5.00	0.00096
80921-OFD-LRP-0 4 341812933-0004	WP081A PM Launch Ramp Turnaround	1664.30	0.2360	4	None Detected		0.0010	<4.20	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80921-OFD-LRP-F B1 341812933-0005	Field Blank 1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
80921-OFD-LRP-F B2 341812933-0006	Field Blank 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A

Analyst(s)

Gerald Iannuzzi (6)



Carlos Rivadeneyra, Laboratory Director  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Initial report from: 09/25/2018 17:22:50



# 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: 091820787

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: 2018.09.22 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/23/2018 1:00 PM

Analysis Date: 09/26/2018 - 09/28/2018

Collected Date: 09/22/2018

## 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)
80922-OFD-PMT-0 1 091820787-0001	WP083A AM DAN BEEBE TRAIL	1922.40	0.2070	2	None Detected		0.0010	<4.80	<0.0010
80922-OFD-PMT-0 2 091820787-0002	WP249 AM CANYON DRIVE	1927.80	0.2070	5	None Detected		0.0010	<4.80	<0.0010
80922-OFD-PMT-0 3 091820787-0003	WP084A AM SE UPPER OVERLOOK	1914.30	0.2070	2	None Detected		0.0010	<4.80	<0.0010
80922-OFD-PMT-0 4 091820787-0004	WP246 AM INTAKE YARD	1908.90	0.2070	3	None Detected		0.0010	<4.80	<0.0010
80922-OFD-PMT-0 5 091820787-0005	WP083A PM DAN BEEBE TRAIL	1963.80	0.2070	4	Actinolite	0 1	0.0009	4.80	0.00095
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80922-OFD-PMT-0 6 091820787-0006	WP249 PM CANYON DRIVE	1967.50	0.2070	0	None Detected		0.0009	<4.80	<0.0009
80922-OFD-PMT-0 7 091820787-0007	WP084A PM SE UPPER OVERLOOK	1953.00	0.2070	0	None Detected		0.0010	<4.80	<0.0010
80922-OFD-PMT-0 8 091820787-0008	WP246 PM INTAKE YARD	1950.20	0.2070	2	None Detected		0.0010	<4.80	<0.0010
80922-OFD-PMT-F B1 091820787-0009	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
80922-OFD-PMT-F B2 091820787-0010	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: 091820787

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: 2018.09.22 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/23/2018 1:00 PM

Analysis Date: 09/26/2018 - 09/28/2018

Collected Date: 09/22/2018

## 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: 09/28/2018 19:18:12



# 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: 091820789

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: 2018.09.22 BURMA RD (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/23/2018 1:00 PM

Analysis Date: 09/28/2018

Collected Date: 09/22/2018

## 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)
80922 -OFD-BPT-01 091820789-0001	WP086A AM BURMA ROAD 01	2014.20	0.1950	1	None Detected		0.0010	<5.10	<0.0010
80922 -OFD-BPT-02 091820789-0002	WP086A PM BURMA ROAD 01	1908.90	0.2070	0	None Detected		0.0010	<4.80	<0.0010
80922 -OFD-BPT-FB1 091820789-0003	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
80922 -OFD-BPT-FB2 091820789-0004	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

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial Report From: 09/28/2018 19:11:50





# 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: 091820782

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: 2018.09.22 LAUNCH RAMP (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/23/2018 1:00 PM

Analysis Date: 09/28/2018

Collected Date: 09/22/2018

## 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)
80922-OFD-LRP-01 091820782-0001	WP009A AM LAUNCH RAMP PARKING	1884.60	0.2070	3	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80922-OFD-LRP-02 091820782-0002	WP081A AM LAUNCH RAMP TURNAROUND	1875.30	0.2070	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80922-OFD-LRP-03 091820782-0003	WP009A PM LAUNCH RAMP PARKING	1958.40	0.2070	1	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80922-OFD-LRP-04 091820782-0004	WP081A PM LAUNCH RAMP TURNAROUND	2016.90	0.1950	1	None Detected		0.0010	<5.10	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80922-OFD-LRP-F B1 091820782-0005	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
80922-OFD-LRP-F B2 091820782-0006	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

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial Report From: 09/28/2018 19:14:53



# 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:** 321821938  
**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:** 2018.09.23 Upper Area (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 9/25/2018 9:25 AM  
**Analysis Date:** 09/27/2018 - 09/28/2018  
**Collected Date:** 09/23/2018

## 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)
80923-OFD-PMT-01 321821938-0001	WP083A AM Dan Beebe Trail	1911.60	0.2060	6	Actinolite Chrysotile	0 0	1 1	0.0010	4.80 4.80	0.00098 0.00098
Total for all types.....									9.60	0.0020
80923-OFD-PMT-02 321821938-0002	WP249 AM Canyon Drive	1905.50	0.2060	4	None Detected			0.0010	<4.80	<0.0010
80923-OFD-PMT-03 321821938-0003	WP084A AM SE Upper Overlook	1912.60	0.2060	5	None Detected			0.0010	<4.80	<0.0010
80923-OFD-PMT-04 321821938-0004	WP246 AM Intake Yard	1919.70	0.2060	3	None Detected			0.0010	<4.80	<0.0010
80923-OFD-PMT-05 321821938-0005	WP083A PM Dan Beebe Trail	1965.60	0.2060	3	None Detected			0.0009	<4.80	<0.0010
80923-OFD-PMT-06 321821938-0006	WP249 PM Canyon Drive	1963.70	0.2060	6	None Detected			0.0010	<4.80	<0.0010
80923-OFD-PMT-07 321821938-0007	WP084A PM SE Upper Overlook	1961.00	0.2060	4	Actinolite	1	0	0.0010	4.80	0.00095
80923-OFD-PMT-08 321821938-0008	WP246 PM Intake Yard	1981.00	0.2060	3	None Detected			0.0009	<4.80	<0.0009
80923-OFD-PMT-F B1 321821938-0009	Field Blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
80923-OFD-PMT-F B2 321821938-0010	Field Blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	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: 321821938

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: 2018.09.23 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/25/2018 9:25 AM

Analysis Date: 09/27/2018 - 09/28/2018

Collected Date: 09/23/2018

### 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: 09/28/2018 16:46:02



# 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: 321821933

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: 2018.09.23 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/25/2018 9:25 AM

Analysis Date: 09/26/2018

Collected Date: 09/23/2018

## 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)
80923-OFD-BPT-0 1 321821933-0001	WP086A AM Burma Road 01	1966.40	0.2060	2	None Detected		0.0009	<4.80	<0.0010
80923-OFD-BPT-0 2 321821933-0002	WP086A PM Burma Road 01	1883.00	0.2060	7	Actinolite	0 1	0.0010	4.80	0.00099
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
80923-OFD-BPT-F B1 321821933-0003	Filed Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
80923-OFD-BPT-F B2 321821933-0004	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	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: 09/26/2018 11:11:15



# LA Testing

520 Mission Street South Pasadena, CA 91030

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

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

LA Testing Order: 321821935

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: 2018.09.23 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/25/2018 9:25 AM

Analysis Date: 09/26/2018

Collected Date: 09/23/2018

## 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	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	Asbestos Concentration (S/cc)
080923-OFD-LRP-01 321821935-0001	WP009A AM Launch Ramp Parking	1859.90	0.2190	9	Actinolite	0	2	0.0009	9.10	0.0019
080923-OFD-LRP-02 321821935-0002	WP081A AM Launch Ramp Turnaround	1455.00	0.2710	4	None Detected			0.0010	<3.70	<0.0010
080923-OFD-LRP-03 321821935-0003	WP009A PM Launch Ramp Parking	2006.10	0.1940	6	Actinolite	0	1	0.0010	5.20	0.00099
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
080923-OFD-LRP-04 321821935-0004	WP081A PM Launch Ramp Turnaround	2016.90	0.1940	9	None Detected			0.0010	<5.20	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
080923-OFD-LRP-FB1 321821935-0005	Field Blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
080923-OFD-LRP-FB2 321821935-0006	Field Blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	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: 09/26/2018 16:43:13



# 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: 161819003

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: 2018.09.24 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/27/2018 10:05 AM

Analysis Date: 10/01/2018

Collected Date: 09/24/2018

## 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)
80924-OFD-PMT-0 1 161819003-0001	WP083A AM Dan Beebe Trail	1939.40	0.2110	3	Actinolite	1	2	0.0009	14.00	0.0028
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80924-OFD-PMT-0 2 161819003-0002	WP249 AM Canyon Drive	1911.60	0.2110	5	None Detected			0.0010	<4.70	<0.0010
80924-OFD-PMT-0 3 161819003-0003	WP084A AM SE Upper Overlook	1899.10	0.2110	4	None Detected			0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80924-OFD-PMT-0 4 161819003-0004	WP246 AM Intake Yard	1904.50	0.2110	2	None Detected			0.0010	<4.70	<0.0010
80924-OFD-PMT-0 5 161819003-0005	WP083A PM Dan Beebe Trail	1962.90	0.1980	2	None Detected			0.0010	<5.10	<0.0010
80924-OFD-PMT-0 6 161819003-0006	WP249 PM Canyon Drive	1969.10	0.1980	3	None Detected			0.0010	<5.10	<0.0010
80924-OFD-PMT-0 7 161819003-0007	WP084A PM SE Upper Overlook	1981.80	0.1980	1	None Detected			0.0010	<5.10	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80924-OFD-PMT-0 8 161819003-0008	WP246 PM Intake Yard	1971.80	0.1980	0	None Detected			0.0010	<5.10	<0.0010
80924-OFD-PMT-F B1 161819003-0009	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
80924-OFD-PMT-F B2 161819003-0010	Field Blank 2	0.00	0.1320	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> / [indianapolislabs@emsl.com](mailto:indianapolislabs@emsl.com)

EMSL Order: 161819003

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: 2018.09.24 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/27/2018 10:05 AM

Analysis Date: 10/01/2018

Collected Date: 09/24/2018

## 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: 10/01/2018 07:36:02



# 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: 161819005

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: 2018.09.24 Burma Rd. (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/27/2018 10:05 AM

Analysis Date: 10/01/2018 - 10/02/2018

Collected Date: 09/24/2018

## 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)
80924-OFD-BPT-0 1	WP086A AM Burma Road 01	1996.00	0.1980	4	Actinolite	1	0	0.0010	5.10	0.00097
161819005-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80924-OFD-BPT-0 2	WP086A PM Burma Road 01	1909.40	0.2110	0	Actinolite	1	0	0.0010	4.70	0.00095
161819005-0002										
80924-OFD-BPT-0 3	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
161819005-0003										
80924-OFD-BPT-0 4	Field Blank 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
161819005-0004										

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: 10/01/2018 13:51:50





# 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: 161819011

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: 2018.09.24 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/27/2018 10:05 AM

Analysis Date: 10/02/2018

Collected Date: 09/24/2018

## 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)
80924-OFD-LRP-01 161819011-0001	WP009A AM Launch Ramp Parking	1890.00	0.2110	3	None Detected		0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80924-OFD-LRP-02 161819011-0002	WP081A AM Launch Ramp Turnaround	1876.50	0.2110	1	Actinolite	1 0	0.0010	4.70	0.00097
80924-OFD-LRP-03 161819011-0003	WP009A PM Launch Ramp Parking	1955.60	0.1980	4	Actinolite	1 0	0.0010	5.10	0.00099
80924-OFD-LRP-04 161819011-0004	WP081A PM Launch Ramp Turnaround	1997.30	0.1980	3	None Detected		0.0010	<5.10	<0.0010
80924-OFD-LRP-F B1 161819011-0005	Field Blank 1	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
80924-OFD-LRP-F B2 161819011-0006	Field Blank 2	0.00	0.1320	0	None Detected		N/A	<7.60	N/A

Analyst(s)

Craig Nixon (6)

Richard Harding, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 10/02/2018 10:23:09



# 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>

EMSL Order: 311801416

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: 2018.09.25 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/27/2018 9:30 AM

Analysis Date: 09/28/2018 - 10/02/2018

Collected Date: 09/25/2018

## 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	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
80925-OFD-PMT-0 1 311801416-0001	WP083A AM Dan Beebe Trail	1932.20	0.2030	7	Actinolite	1	0	0.0010	4.90	0.00098
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80925-OFD-PMT-0 2 311801416-0002	WP249 AM Canyon Drive	1901.80	0.2030	8	None Detected			0.0010	<4.90	<0.0010
80925-OFD-PMT-0 3 311801416-0003	WP084A AM SE Upper Overlook	1708.10	0.2290	2	Actinolite	1	0	0.0010	4.40	0.00099
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80925-OFD-PMT-0 4 311801416-0004	WP246 AM Intake Yard	1903.50	0.2030	13	Actinolite	1	0	0.0010	4.90	0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80925-OFD-PMT-0 5 311801416-0005	WP083A PM Dan Beebe Trail	1952.10	0.2030	16	Actinolite	1	1	0.0010	9.80	0.0019
80925-OFD-PMT-0 6 311801416-0006	WP249 PM Canyon Drive	1952.10	0.2030	2	None Detected			0.0010	<4.90	<0.0010
80925-OFD-PMT-0 7 311801416-0007	WP084A PM SE Upper Overlook	1972.90	0.2030	2	None Detected			0.0010	<4.90	<0.0010
80925-OFD-PMT-0 8 311801416-0008	WP246 PM Intake Yard	1971.00	0.2030	5	None Detected			0.0010	<4.90	<0.0010
80925-OFD-PMT-F B1 311801416-0009	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
80925-OFD-PMT-F B2 311801416-0010	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	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: 311801416

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: 2018.09.25 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/27/2018 9:30 AM

Analysis Date: 09/28/2018 - 10/02/2018

Collected Date: 09/25/2018

### 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: 10/02/2018 14:27:26

ASB\_TEMCARB\_0001\_0002 1.92 Printed: 10/2/2018 2:27:37PM

Page 2 of 2



# 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: 311801413

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: 2018.09.25 Burma Road (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/27/2018 9:30 AM

Analysis Date: 09/27/2018 - 09/28/2018

Collected Date: 09/25/2018

## 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)
80925-OFD-BPT-0 1 311801413-0001	WP086A AM Burma Road 01	1981.80	0.2030	5	None Detected			0.0010	<4.90	<0.0010
80925-OFD-BPT-0 2 311801413-0002	WP086A PM Burma Road 01	1907.80	0.2030	4	None Detected			0.0010	<4.90	<0.0010
80925-OFD-BPT-F B1 311801413-0003	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
80925-OFD-BPT-F B2 311801413-0004	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	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: 10/02/2018 13:58:21



# 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>

EMSL Order: 311801414

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: 2018.09.25 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/27/2018 9:30 AM

Analysis Date: 10/02/2018 - 10/04/2018

Collected Date: 09/25/2018

## 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)
80925-OFD-LRP-01 311801414-0001	WP009A AM Launch Ramp Parking	1901.80	0.2030	14	None Detected		0.0010	<4.90	<0.0010
80925-OFD-LRP-02 311801414-0002	WP081A AM Launch Ramp Turnaround	1888.90	0.2160	7	None Detected		0.0009	<4.60	<0.0009
80925-OFD-LRP-03 311801414-0003	WP009A PM Launch Ramp Parking	1988.30	0.2030	4	Actinolite	1 0	0.0010	4.90	0.00095
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80925-OFD-LRP-04 311801414-0004	WP081A PM Launch Ramp Turnaround	2035.80	0.1910	5	None Detected		0.0010	<5.20	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80925-OFD-LRP-F B1 311801414-0005	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
80925-OFD-LRP-F B2 311801414-0006	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	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: 10/04/2018 10:09:39



# 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: 531800308

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: 2018-09-26 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/28/2018 10:38 AM

Analysis Date: 10/02/2018 - 10/03/2018

Collected Date: 09/26/2018

## 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)
80926-OFD-PMT-0 1 531800308-0001	WP083A AM Dan Beebe Trail	1938.60	0.2080	3	Actinolite	1	1	0.0010	9.60	0.0019
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80926-OFD-PMT-0 2 531800308-0002	WP249 AM Canyon Drive	1909.90	0.2080	3	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80926-OFD-PMT-0 3 531800308-0003	WP084A AM SE Upper Overlook	1912.60	0.2080	2	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80926-OFD-PMT-0 4 531800308-0004	WP246 AM Intake Yard	1907.20	0.2080	2	Actinolite	1	0	0.0010	4.80	0.00097
80926-OFD-PMT-0 5 531800308-0005	WP083A PM Dan Beebe Trail	1942.20	0.2080	10	Actinolite	0	2	0.0010	9.60	0.0019
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80926-OFD-PMT-0 6 531800308-0006	WP249 PM Canyon Drive	1954.80	0.2080	0	None Detected			0.0009	<4.80	<0.0010
80926-OFD-PMT-0 7 531800308-0007	WP084A PM SE Upper Overlook	2020.20	0.1950	2	None Detected			0.0010	<5.10	<0.0010
80926-OFD-PMT-0 8 531800308-0008	WP246 PM Intake Yard	2003.40	0.1950	1	None Detected			0.0010	<5.10	<0.0010
80926-OFD-PMT-F B1 531800308-0009	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
80926-OFD-PMT-F B2 531800308-0010	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	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: 531800308

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: 2018-09-26 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/28/2018 10:38 AM

Analysis Date: 10/02/2018 - 10/03/2018

Collected Date: 09/26/2018

### 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: 10/03/2018 13:25:55



# 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: 531800305

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:** 2018-9-26 Burma Rd (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 9/28/2018 10:06 AM  
**Analysis Date:** 10/01/2018  
**Collected Date:** 09/26/2018

## 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)
80926-OFD-BPT-0 1 531800305-0001	WP086A AM Burma Rd 01	1984.50	0.1950	3	Actinolite	0 1	0.0010	5.10	0.00099
80926-OFD-BPT-0 2 531800305-0002	WP086A PM Burma Rd 01	1914.90	0.2080	0	None Detected		0.0010	<4.80	<0.0010
80926-OFD-BPT-F B1 531800305-0003	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
80926-OFD-BPT-F B2 531800305-0004	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	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: 10/01/2018 15:11:45





# 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: 531800306

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: 2018-09-26 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/28/2018 10:20 AM

Analysis Date: 10/01/2018

Collected Date: 09/26/2018

## 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)
80956-OFD-LRP-01 531800306-0001	WP009A AM Launch Ramp Parking	1896.50	0.2080	3	Actinolite	2	0	0.0010	9.60	0.0020
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80956-OFD-LRP-02 531800306-0002	WP081A AM Launch Ramp Turnaround	1886.20	0.2080	4	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80956-OFD-LRP-03 531800306-0003	WP009A PM Launch Ramp Parking	2001.40	0.1950	2	None Detected			0.0010	<5.10	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80956-OFD-LRP-04 531800306-0004	WP081A PM Launch Ramp Turnaround	2008.80	0.1950	0	None Detected			0.0010	<5.10	<0.0010
80956-OFD-LRP-F B1 531800306-0005	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
80956-OFD-LRP-F B2 531800306-0006	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	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: 10/01/2018 18:09:13



# 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: 331819415

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: 2018.09.27 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/29/2018 9:00 AM

Analysis Date: 10/03/2018 - 10/08/2018

Collected Date: 09/27/2018

## 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)
80927-OFD-PMT-0 1	WP083A AM DAN BEEBE TRAIL	1934.90	0.2030	14	Actinolite	0	1	0.0010	4.90	0.00098
331819415-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80927-OFD-PMT-0 2	WP249 AM CANYON DRIVE	1918.00	0.2030	8	Actinolite	1	1	0.0010	9.80	0.0020
331819415-0002										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80927-OFD-PMT-0 3	WP084A AM SE UPPER OVERLOOK	1879.20	0.2160	10	None Detected			0.0009	<4.60	<0.0010
331819415-0003										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80927-OFD-PMT-0 4	WP246 AM INTAKE YARD	1866.90	0.2160	1	None Detected			0.0010	<4.60	<0.0010
331819415-0004										
80927-OFD-PMT-0 5	WP083A PM DAN BEEBE TRAIL	1962.00	0.2030	12	Actinolite	3	0	0.0010	15.00	0.0029
331819415-0005										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80927-OFD-PMT-0 6	WP249 PM CANYON DRIVE	1962.00	0.2030	7	None Detected			0.0010	<4.90	<0.0010
331819415-0006										
80927-OFD-PMT-0 7	WP084A PM SE UPPER OVERLOOK	1975.60	0.2030	3	None Detected			0.0010	<4.90	<0.0010
331819415-0007										
80927-OFD-PMT-0 8	WP246 PM INTAKE YARD	1968.30	0.2030	6	None Detected			0.0010	<4.90	<0.0010
331819415-0008										
80927-OFD-PMT-F B1	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
331819415-0009										
80927-OFD-PMT-F B2	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
331819415-0010										



## 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: 331819415

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: 2018.09.27 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/29/2018 9:00 AM

Analysis Date: 10/03/2018 - 10/08/2018

Collected Date: 09/27/2018

### 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

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

Initial Report From: 10/08/2018 12:53:40



# 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: 331819413  
 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:** 2018.09.27 Burma Rd (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 9/29/2018 9:00 AM  
**Analysis Date:** 10/04/2018  
**Collected Date:** 09/27/2018

## 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)
80927-OFD-BPT-01 331819413-0001	WP086A AM Burma Road 01	1986.40	0.1950	1	Chrysotile	1 0	0.0010	5.10	0.00099
80927-OFD-BPT-02 331819413-0002	WP086A PM Burma Road 01	1914.90	0.2080	5	Actinolite	1 1	0.0010	9.60	0.0019
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
80927-OFD-BPT-F B1 331819413-0003	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
80927-OFD-BPT-F B2 331819413-0004	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)  
 Peter Donato (4)

  
 Michael DeCavallas, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 10/04/2018 17:29:13



# LA Testing

5431 Industrial Drive Huntington Beach, CA 92649  
 Tel/Fax: (714) 828-4999 / (714) 828-4944  
<http://www.LATesting.com> / [gardengrovelab@lateesting.com](mailto:gardengrovelab@lateesting.com)

LA Testing Order: 331819412  
 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:** 2018.09.27 Launch Ramp (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 9/29/2018 9:00 AM  
**Analysis Date:** 10/05/2018  
**Collected Date:** 09/27/2018

## 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 μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
80927-OFD-LRP-01 331819412-0001	WP009A AM Launch Ramp Parking	1873.80	0.2080	1	None Detected			0.0010	<4.80	<0.0010
80927-OFD-LRP-02 331819412-0002	WP081A AM Launch Ramp Turnaround	1881.90	0.2080	1	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80927-OFD-LRP-03 331819412-0003	WP009A PM Launch Ramp Parking	1975.60	0.1950	2	Actinolite	1	0	0.0010	5.10	0.0010
80927-OFD-LRP-04 331819412-0004	WP081A PM Launch Ramp Turnaround	1968.30	0.2080	3	None Detected			0.0009	<4.80	<0.0009
80927-OFD-LRP-F B1 331819412-0005	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
80927-OFD-LRP-F B2 331819412-0006	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s)  
 Peter Donato (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 EMSL Analytical, Inc. Rochester, NY

Initial report from: 10/05/2018 13:03:58



# 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: 341813257

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: 2018.09.28 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/30/2018 9:30 AM

Analysis Date: 10/02/2018 - 10/03/2018

Collected Date: 09/28/2018

## 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	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
80928-OFD-PMT-0 1 341813257-0001	WP083A AM Dan Beebe Trail	1933.20	0.2110	11	Actinolite	1	2	0.0009	14.00	0.0028
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-PMT-0 2 341813257-0002	WP249 AM Canyon Drive	1916.20	0.2110	7	Actinolite	0	2	0.0010	9.50	0.0019
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-PMT-0 3 341813257-0003	WP084A AM SE Upper Overlook	1909.90	0.2110	11	None Detected			0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-PMT-0 4 341813257-0004	WP246 AM Intake Yard	1920.70	0.2110	2	Actinolite	0	2	0.0010	9.50	0.0019
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-PMT-0 5 341813257-0005	WP083A PM Dan Beebe Trail	1939.50	0.2110	4	None Detected			0.0009	<4.70	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-PMT-0 6 341813257-0006	WP249 PM Canyon Drive	1963.80	0.1980	5	Actinolite	0	1	0.0010	5.00	0.00099
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-PMT-0 7 341813257-0007	WP084A PM SE Upper Overlook	1957.50	0.1980	5	None Detected			0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-PMT-0 8 341813257-0008	WP246 PM Intake Yard	1962.00	0.1980	8	None Detected			0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-PMT-F B1 341813257-0009	Field Blank 1	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-PMT-F B2 341813257-0010	Field Blank 2	0.00	0.1240	0	None Detected			N/A	<8.10	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: 341813257

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: 2018.09.28 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/30/2018 9:30 AM

Analysis Date: 10/02/2018 - 10/03/2018

Collected Date: 09/28/2018

## 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)

Gerald Iannuzzi (10)

Carlos Rivadeneyra, Laboratory Director  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Initial report from: 10/04/2018 10:18:13



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
 Tel/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com / cinnasblab@EMSL.com>

EMSL Order: 041829455  
 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:** 2018.09.28 Burma Rd (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 9/30/2018 9:30 AM  
**Analysis Date:** 10/01/2018  
**Collected Date:** 09/28/2018

## 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)
80928-OFD-BPT-01 041829455-0001	WP086A AM Burma Road 01	1981.80	0.1950	8	Actinolite	4	5	0.0010	46.00	0.0090
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-BPT-02 041829455-0002	WP086A PM Burma Road 01	1920.30	0.2080	4	Actinolite Chrysotile	2 1	1 1	0.0010	14.00 9.60	0.0029 0.0019
Total for all types.....									23.60	0.0048
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-BPT-F B1 041829455-0003	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
80928-OFD-BPT-F B2 041829455-0004	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s)  
 William Nguyen (4)

Benjamin Ellis, Laboratory Manager  
 or other approved signatory

EMSL maintains liability limited to cost of analysis. 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 sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from: 10/01/2018 13:00:16





# 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: 341813254

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: 2018.09.28 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/30/2018 9:30 AM

Analysis Date: 10/02/2018

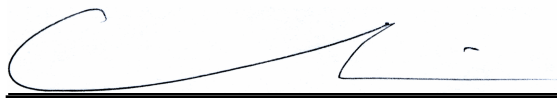
Collected Date: 09/28/2018

## 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)
80928-OFD-LRP-01 341813254-0001	WP009A AM Launch Ramp Parking	1921.40	0.2110	5	Chrysotile	0	1	0.0010	4.70	0.00095
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-LRP-02 341813254-0002	WP081A AM Launch Ramp Turnaround	1917.00	0.2110	3	None Detected			0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-LRP-03 341813254-0003	WP009A PM Launch Ramp Parking	1978.30	0.1980	3	None Detected			0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80928-OFD-LRP-04 341813254-0004	WP081A PM Launch Ramp Turnaround	1962.90	0.1980	2	Chrysotile	1	0	0.0010	5.00	0.00099
80928-OFD-LRP-F B1 341813254-0005	Field Blank 1	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
80928-OFD-LRP-F B2 341813254-0006	Field Blank 2	0.00	0.1240	0	None Detected			N/A	<8.10	N/A

Analyst(s)

Gerald Iannuzzi (6)



Carlos Rivadeneyra, Laboratory Director  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Initial report from: 10/02/2018 17:10:10



# 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: 091821344

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: 2018.09.29 - UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/30/2018 12:30 PM

Analysis Date: 10/01/2018

Collected Date: 09/29/2018

## 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)
80929-OFD-PMT-0 1 091821344-0001	WP083A AM DAN BEEBE TRAIL	1922.40	0.2070	0	None Detected		0.0010	<4.80	<0.0010
80929-OFD-PMT-0 2 091821344-0002	WP249 AM CANYON DRIVE	1917.00	0.2070	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80929-OFD-PMT-0 3 091821344-0003	WP084A AM SE UPPER OVERLOOK	1912.60	0.2070	1	None Detected		0.0010	<4.80	<0.0010
80929-OFD-PMT-0 4 091821344-0004	WP246 AM INTAKE YARD	1914.30	0.2070	3	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80929-OFD-PMT-0 5 091821344-0005	WP083A PM DAN BEEBE TRAIL	1977.40	0.1950	1	None Detected		0.0010	<5.10	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80929-OFD-PMT-0 6 091821344-0006	WP249 PM CANYON DRIVE	1971.00	0.2070	1	None Detected		0.0009	<4.80	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80929-OFD-PMT-0 7 091821344-0007	WP084A PM SE UPPER OVERLOOK	1958.30	0.2070	0	None Detected		0.0009	<4.80	<0.0010
80929-OFD-PMT-0 8 091821344-0008	WP246 PM INTAKE YARD	1958.30	0.2070	0	None Detected		0.0009	<4.80	<0.0010
80929-OFD-PMT-F B1 091821344-0009	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
80929-OFD-PMT-F B2 091821344-0010	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: 091821344

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: 2018.09.29 - UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/30/2018 12:30 PM

Analysis Date: 10/01/2018

Collected Date: 09/29/2018

## 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: 10/02/2018 18:56:57



# 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: 091821341

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: 2018.09.29 - BURMA RD (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/30/2018 12:30 PM

Analysis Date: 10/02/2018

Collected Date: 09/29/2018

## 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)
80929-OFD-BPT-0 1 091821341-0001	WP086A AM BURMA ROAD 01	1992.60	0.1950	1	None Detected		0.0010	<5.10	<0.0010
80929-OFD-BPT-0 2 091821341-0002	WP086A PM BURMA ROAD 01	1897.00	0.2070	0	None Detected		0.0010	<4.80	<0.0010
80929-OFD-BPT-F B1 091821341-0003	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
80929-OFD-BPT-F B2 091821341-0004	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

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial Report From: 10/02/2018 18:45:26



# 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: 091821343

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: 2018.09.29 - LAUNCH RAMP (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 9/30/2018 12:30 PM

Analysis Date: 10/02/2018

Collected Date: 09/29/2018

## 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)
80929-OFD-LRP-01 091821343-0001	WP009A AM LAUNCH RAMP PARKING	1918.70	0.2070	4	None Detected		0.0010	<4.80	<0.0010
80929-OFD-LRP-02 091821343-0002	WP081A AM LAUNCH RAMP TURNAROUND	1920.30	0.2070	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
80929-OFD-LRP-03 091821343-0003	WP009A PM LAUNCH RAMP PARKING	1981.80	0.1950	0	None Detected		0.0010	<5.10	<0.0010
80929-OFD-LRP-04 091821343-0004	WP081A PM LAUNCH RAMP TURNAROUND	1981.80	0.1950	0	None Detected		0.0010	<5.10	<0.0010
80929-OFD-LRP-F B1 091821343-0005	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
80929-OFD-LRP-F B2 091821343-0006	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

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial Report From: 10/02/2018 18:42:56



# LA Testing

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

**LA Testing Order:** 321822585  
**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:** 2018.09.30 Upper Area (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 10/ 2/2018 9:40 AM  
**Analysis Date:** 10/04/2018  
**Collected Date:** 09/30/2018

## 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)
80930-OFD-PMT-0 1 321822585-0001	WP083A AM Dan Beebe Trail	1943.10	0.2060	5	Actinolite Tremolite	1 0	0 1	0.0010	4.80 4.80	0.00096 0.00096
Total for all types.....									9.60	0.0019
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80930-OFD-PMT-0 2 321822585-0002	WP249 AM Canyon Drive	1923.30	0.2060	4	Actinolite	0	1	0.0010	4.80	0.00097
80930-OFD-PMT-0 3 321822585-0003	WP084A AM SE Upper Overlook	1920.70	0.2060	3	None Detected			0.0010	<4.80	<0.0010
80930-OFD-PMT-0 4 321822585-0004	WP246 AM Intake Yard	1920.70	0.2060	2	Chrysotile	1	0	0.0010	4.80	0.00097
80930-OFD-PMT-0 5 321822585-0005	WP083A PM Dan Beebe Trail	1949.40	0.2060	2	Actinolite	1	0	0.0010	4.80	0.00096
80930-OFD-PMT-0 6 321822585-0006	WP249 PM Canyon Drive	1942.20	0.2060	5	None Detected			0.0010	<4.80	<0.0010
80930-OFD-PMT-0 7 321822585-0007	WP084A PM SE Upper Overlook	1944.90	0.2060	4	None Detected			0.0010	<4.80	<0.0010
80930-OFD-PMT-0 8 321822585-0008	WP246 PM Intake Yard	1957.50	0.2060	1	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
80930-OFD-PMT-F B1 321822585-0009	Field Blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
80930-OFD-PMT-F B2 321822585-0010	Field Blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	N/A



## LA Testing

520 Mission Street South Pasadena, CA 91030

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

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

LA Testing Order: 321822585

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: 2018.09.30 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 2/2018 9:40 AM

Analysis Date: 10/04/2018

Collected Date: 09/30/2018

### 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)

Feng Liang (5)

Kyeong Corbin (5)

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

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Samples analyzed by LA Testing South Pasadena, CA

Report amended: 10/04/2018 20:22:32 Replaces initial report from: 10/04/2018 20:19:38 Reason Code: Data Entry-Change to Appearance



# 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: 321822588  
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: 2018.09.30 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375  
Fax:  
Received Date: 10/ 2/2018 9:40 AM  
Analysis Date: 10/03/2018  
Collected Date: 09/30/2018

## 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)
80930-OFD-BPT-0 1 321822588-0001	WP086 AM Burma Road 01	1983.70	0.2060	3	Chrysotile	0	1	0.0009	4.80	0.00094
80930-OFD-BPT-0 2 321822588-0002	WP086 PM Burma Road 01	1900.80	0.2060	6	Actinolite	1	0	0.0010	4.80	0.00098
80930-OFD-BPT-F B1 321822588-0003	Field Blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
80930-OFD-BPT-F B2 321822588-0004	Field Blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	N/A

Analyst(s)  
Feng Liang (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: 10/03/2018 18:53:13





# LA Testing

520 Mission Street South Pasadena, CA 91030

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

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

LA Testing Order: 321822589

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: 2018.09.30 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 2/2018 9:40 AM

Analysis Date: 10/04/2018

Collected Date: 09/30/2018

## 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)
80930-OFD-LRP-01 321822589-0001	WP009A AM Launch Ramp Parking	1914.30	0.2060	2	None Detected			0.0010	<4.80	<0.0010
80930-OFD-LRP-02 321822589-0002	WP081A AM Launch Ramp Turnaround	1918.70	0.2060	2	Actinolite	0	1	0.0010	4.80	0.00097
80930-OFD-LRP-03 321822589-0003	WP009A PM Launch Ramp Parking	1957.50	0.2060	4	Actinolite	1	0	0.0010	4.80	0.00095
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80930-OFD-LRP-04 321822589-0004	WP081A PM Launch Ramp Turnaround	1966.40	0.2060	3	Actinolite	0	2	0.0009	9.70	0.0019
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
80930-OFD-LRP-F B1 321822589-0005	Field Blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
80930-OFD-LRP-F B2 321822589-0006	Field Blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	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: 10/04/2018 11:04:17



# 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: 411808354

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: 2018.10.01 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 3/2018 9:10 AM

Analysis Date: 10/04/2018

Collected Date: 10/01/2018

## 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)
81001-OFD-PMT-0 1 411808354-0001	WP083A AM Dan Beebe Trail	1937.70	0.2080	2	None Detected			0.0010	<4.80	<0.0010
81001-OFD-PMT-0 2 411808354-0002	WP249 AM Canyon Drive	1935.90	0.2080	5	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles										
81001-OFD-PMT-0 3 411808354-0003	WP084A AM SE Upper Overlook	1940.40	0.2080	3	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles										
81001-OFD-PMT-0 4 411808354-0004	WP246 AM Intake Yard	1932.20	0.2080	0	Actinolite	1	0	0.0010	4.80	0.00096
81001-OFD-PMT-0 5 411808354-0005	WP083A PM Dan Beebe Trail	1952.10	0.2080	0	Actinolite	2	0	0.0009	9.60	0.0019
81001-OFD-PMT-0 6 411808354-0006	WP249 PM Canyon Drive	1961.10	0.2080	2	None Detected			0.0009	<4.80	<0.0009
Non-asbestos structures reported includes a contribution from non-regulated amphiboles										
81001-OFD-PMT-0 7 411808354-0007	WP084A PM SE Upper Overlook	1952.10	0.2080	0	None Detected			0.0009	<4.80	<0.0010
81001-OFD-PMT-0 8 411808354-0008	WP246 PM Intake Yard	1957.50	0.2080	0	Actinolite	0	1	0.0009	4.80	0.00095
81001-OFD-PMT-F B1 411808354-0009	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
81001-OFD-PMT-F B2 411808354-0010	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: 411808354

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: 2018.10.01 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 3/2018 9:10 AM

Analysis Date: 10/04/2018

Collected Date: 10/01/2018

## 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: 10/04/2018 17:34:16



# 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: 411808358

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: 2018.10.01 Burma Rd. (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 3/2018 9:10 AM

Analysis Date: 10/04/2018

Collected Date: 10/01/2018

## 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)
81001-OFD-BPT-0 1 411808358-0001	WP086A AM Burma Road 01	1984.50	0.1950	0	None Detected			0.0010	<5.10	<0.0010
81001-OFD-BPT-0 2 411808358-0002	WP086A PM Burma Road 01	1907.80	0.2080	0	None Detected			0.0010	<4.80	<0.0010
81001-OFD-BPT-F B1 411808358-0003	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
81001-OFD-BPT-F B2 411808358-0004	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: 10/04/2018 17:11:57



# 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: 411808355

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: 2018.10.01 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 3/2018 9:10 AM

Analysis Date: 10/04/2018

Collected Date: 10/01/2018

## 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 μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
81001-OFD-LRP-01 411808355-0001	WP009A AM Launch Ramp Parking	1932.20	0.2080	0	None Detected			0.0010	<4.80	<0.0010
81001-OFD-LRP-02 411808355-0002	WP081A AM Launch Ramp Turnaround	1918.70	0.2080	2	None Detected			0.0010	<4.80	<0.0010
81001-OFD-LRP-03 411808355-0003	WP009A PM Launch Ramp Parking	1981.80	0.1950	0	Actinolite	0	1	0.0010	5.10	0.0010
81001-OFD-LRP-04 411808355-0004	WP081A PM Launch Ramp Turnaround	1996.50	0.1950	0	Actinolite	0	1	0.0010	5.10	0.00099
81001-OFD-LRP-F B1 411808355-0005	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
81001-OFD-LRP-F B2 411808355-0006	Field Blank 12	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: 10/04/2018 16:28:53



# 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: 531800316

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: 2018-10-02 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 4/2018 10:26 AM

Analysis Date: 10/09/2018 - 10/10/2018

Collected Date: 10/02/2018

## 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)
81002-OFD-PMT-0 1 531800316-0001	WP083A AM Dan Beebe Trail	1944.80	0.2080	1	None Detected		0.0010	<4.80	<0.0010
81002-OFD-PMT-0 2 531800316-0002	WP249 AM Canyon Drive	1930.50	0.2080	1	None Detected		0.0010	<4.80	<0.0010
81002-OFD-PMT-0 3 531800316-0003	WP084A AM SE Upper Overlook	1922.40	0.2080	1	None Detected		0.0010	<4.80	<0.0010
81002-OFD-PMT-0 4 531800316-0004	WP246 AM Intake Yard	1914.30	0.2080	4	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
81002-OFD-PMT-0 5 531800316-0005	WP083A PM Dan Beebe Trail	1956.60	0.2080	2	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
81002-OFD-PMT-0 6 531800316-0006	WP249 PM Canyon Drive	1959.30	0.2080	0	None Detected		0.0009	<4.80	<0.0010
81002-OFD-PMT-0 7 531800316-0007	WP084A PM SE Upper Overlook	1967.50	0.2080	0	None Detected		0.0009	<4.80	<0.0009
81002-OFD-PMT-0 8 531800316-0008	WP246 PM Intake Yard	1975.60	0.1950	1	None Detected		0.0010	<5.10	<0.0010
81002-OFD-PMT-F B1 531800316-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
81002-OFD-PMT-F B2 531800316-0010	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	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: 531800316

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: 2018-10-02 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 4/2018 10:26 AM

Analysis Date: 10/09/2018 - 10/10/2018

Collected Date: 10/02/2018

## 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: 10/10/2018 14:39:15



# 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: 531800313

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: 2018-10-02 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 4/2018 9:58 AM

Analysis Date: 10/08/2018

Collected Date: 10/02/2018

## 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)
81002-OFD-BPT-0 1 531800313-0001	WP086A AM Burma Road 01	1986.40	0.1950	1	None Detected		0.0010	<5.10	<0.0010
81002-OFD-BPT-0 2 531800313-0002	WP086A PM Burma Road 01	1900.80	0.2080	0	Actinolite	1 1	0.0010	9.60	0.0019
81002-OFD-BPT-F B1 531800313-0003	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
81002-OFD-BPT-F B2 531800313-0004	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	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: 10/08/2018 15:43:35





# 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: 531800315

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: 2018-10-02 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 4/2018 10:13 AM

Analysis Date: 10/09/2018

Collected Date: 10/02/2018

## 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	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	Asbestos Concentration (S/cc)
81002-OFD-LRP-01 531800315-0001	WP009A AM Launch Ramp Parking	1887.30	0.2080	8	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
81002-OFD-LRP-02 531800315-0002	WP081A AM Launch Ramp Turnaround	1913.70	0.2080	1	Actinolite	1	0	0.0010	4.80	0.00097
81002-OFD-LRP-03 531800315-0003	WP009A PM Launch Ramp Parking	1981.80	0.1950	0	None Detected			0.0010	<5.10	<0.0010
81002-OFD-LRP-04 531800315-0004	WP081A PM Launch Ramp Turnaround	2001.90	0.1950	3	None Detected			0.0010	<5.10	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
81002-OFD-LRP-F B1 531800315-0005	Field Blank	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
81002-OFD-LRP-F B2 531800315-0006	Filed Blank	0.00	0.1300	0	None Detected			N/A	<7.70	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: 10/09/2018 14:44:44



# 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: 311801468

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: 2018.10.03 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 5/2018 9:30 AM

Analysis Date: 10/10/2018 - 10/11/2018

Collected Date: 10/03/2018

## 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)
81003-OFD-PMT-0 1 311801468-0001	WP083A AM Dan Beebe Trail	1941.00	0.2030	4	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
81003-OFD-PMT-0 2 311801468-0002	WP249 AM Canyon Drive	1926.80	0.2030	13	Actinolite	1 0	0.0010	4.90	0.00098
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
81003-OFD-PMT-0 3 311801468-0003	WP084A AM SE Upper Overlook	1924.10	0.2030	0	None Detected		0.0010	<4.90	<0.0010
81003-OFD-PMT-0 4 311801468-0004	W9246 AM Intake Yard	1921.40	0.2030	1	None Detected		0.0010	<4.90	<0.0010
81003-OFD-PMT-0 5 311801468-0005	WP083A PM Dan Beebe Trail	1960.20	0.2030	0	None Detected		0.0010	<4.90	<0.0010
81003-OFD-PMT-0 6 311801468-0006	WP249 PM Canyon Drive	1950.30	0.2030	1	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
81003-OFD-PMT-0 7 311801468-0007	WP084A PM SE Upper Overlook	1960.20	0.2030	0	None Detected		0.0010	<4.90	<0.0010
81003-OFD-PMT-0 8 311801468-0008	W9246 PM Intake Yard	1955.60	0.2030	0	None Detected		0.0010	<4.90	<0.0010
81003-OFD-PMT-F B1 311801468-0009	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
81003-OFD-PMT-F B2 311801468-0010	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	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: 311801468

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: 2018.10.03 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 5/2018 9:30 AM

Analysis Date: 10/10/2018 - 10/11/2018

Collected Date: 10/03/2018

## 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: 10/12/2018 16:37:17



# 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: 311801465

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: 2018.10.03 Burma Road (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 5/2018 9:30 AM

Analysis Date: 10/08/2018 - 10/09/2018

Collected Date: 10/03/2018

## 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)
81003-OFD-BPT-0 1 311801465-0001	WP086A AM Burma Road 01	1994.60	0.2030	2	None Detected			0.0010	<4.90	<0.0010
81003-OFD-BPT-0 2 311801465-0002	WP086A PM Burma Road 01	1891.10	0.2160	0	None Detected			0.0009	<4.60	<0.0009
81003-OFD-BPT-F B1 311801465-0003	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
81003-OFD-BPT-F B2 311801465-0004	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	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: 10/09/2018 10:11:39



# 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: 311801467

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: 2018.10.03 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 10/ 5/2018 9:30 AM

Analysis Date: 10/09/2018 - 10/10/2018

Collected Date: 10/03/2018

## 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)
81003-OFD-LRP-0 1 311801467-0001	WP009A AM Launch Ramp Parking	1907.80	0.2030	7	None Detected		0.0010	<4.90	<0.0010
81003-OFD-LRP-0 2 311801467-0002	WP081A AM Launch Ramp Turnaround	1930.10	0.2030	1	None Detected		0.0010	<4.90	<0.0010
81003-OFD-LRP-0 3 311801467-0003	WP009A PM Launch Ramp Parking	1967.50	0.2030	0	None Detected		0.0010	<4.90	<0.0010
81003-OFD-LRP-0 4 311801467-0004	WP081A PM Launch Ramp Turnaround	1961.00	0.2030	0	None Detected		0.0010	<4.90	<0.0010
81003-OFD-LRP-F B1 311801467-0005	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
81003-OFD-LRP-F B2 311801467-0006	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	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: 10/10/2018 10:05:05



# 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: 341813680

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

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

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

**Fax:**

**Received Date:** 10/ 6/2018 9:15 AM

**Analysis Date:** 10/09/2018

**Collected Date:** 10/04/2018

**Project:** 2018.10.04 Upper Area (Oroville EM OP)

## 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 μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm <sup>2</sup> )	(S/cc)
81004-OFD-PMT-01 341813680-0001	WP083A AM DAN BEEBE TRAIL - WP083A AM DAN BEEBE TRAIL	1940.40	0.2110	1	None Detected			0.0009	<4.70	<0.0009
81004-OFD-PMT-02 341813680-0002	WP249 AM CANYON DRIVE - WP249 AM CANYON DRIVE	1943.10	0.1980	5	None Detected			0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
81004-OFD-PMT-03 341813680-0003	WP084A AM SE UPPER OVERLOOK - WP084A AM SE UPPER OVERLOOK	1940.40	0.2110	0	None Detected			0.0009	<4.70	<0.0009
81004-OFD-PMT-04 341813680-0004	WP246 AM INTAKE YARD - WP246 AM INTAKE YARD	1930.50	0.2110	0	None Detected			0.0009	<4.70	<0.0010
81004-OFD-PMT-05 341813680-0005	WP083A PM DAN BEEBE TRAIL - WP083A PM DAN BEEBE TRAIL	1956.60	0.1980	0	None Detected			0.0010	<5.00	<0.0010
81004-OFD-PMT-06 341813680-0006	WP249 PM CANYON DRIVE - WP249 PM CANYON DRIVE	1952.10	0.1980	1	Actinolite	1	0	0.0010	5.00	0.00099
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
81004-OFD-PMT-07 341813680-0007	WP084A PM SE UPPER OVERLOOK - WP084A PM SE UPPER OVERLOOK	1989.10	0.1980	0	None Detected			0.0010	<5.00	<0.0010
81004-OFD-PMT-08 341813680-0008	WP246 PM INTAKE YARD - WP246 PM INTAKE YARD	1989.90	0.1980	0	None Detected			0.0010	<5.00	<0.0010
81004-OFD-PMT-L B1 341813680-0009	Field Blank 1 - Field Blank 1	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
81004-OFD-PMT-L B2 341813680-0010	Field Blank 2 - Field Blank 2	0.00	0.1240	0	None Detected			N/A	<8.10	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: 341813680

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

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

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

**Fax:**

**Received Date:** 10/ 6/2018 9:15 AM

**Analysis Date:** 10/09/2018

**Collected Date:** 10/04/2018

**Project:** 2018.10.04 Upper Area (Oroville EM OP)

## 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)

Gerald Iannuzzi (10)

Carlos Rivadeneyra, Laboratory Director  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Report amended: 10/10/2018 13:42:48 Replaces initial report from: 10/09/2018 13:54:42 Reason Code: Data Entry-Change to Appearance



# EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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

EMSL Order: 341813677

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

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

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

**Fax:**

**Received Date:** 10/ 6/2018 9:15 AM

**Analysis Date:** 10/08/2018

**Collected Date:** 10/04/2018

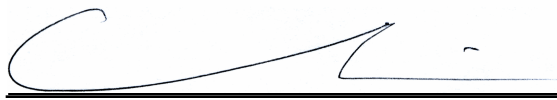
**Project:** 2018.10.04 Burma Rd (Oroville EM OP)

## 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)
81004-OFD-BPT-0 1	WP086A AM Burma Road 01	1976.40	0.1980	4	None Detected			0.0010	<5.00	<0.0010
341813677-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
81004-OFD-BPT-0 2	WP086A PM Burma Road 01	1910.50	0.2110	0	None Detected			0.0010	<4.70	<0.0010
341813677-0002										
81004-OFD-BPT-F B1	Field Blank 1	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
341813677-0003										
81004-OFD-BPT-F B2	Field Blank 2	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
341813677-0004										

Analyst(s)

Gerald Iannuzzi (4)

  
Carlos Rivadeneyra, Laboratory Director  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Initial report from: 10/08/2018 12:58:12





# 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: 341813679

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

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

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

**Fax:**

**Received Date:** 10/ 6/2018 9:15 AM

**Analysis Date:** 10/08/2018

**Collected Date:** 10/04/2018

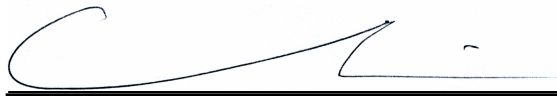
**Project:** 2018.10.04 Lauch Ramp (Oroville EM OP)

## 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)
81004-OFD-LRP-0 1 341813679-0001	WP009A AM Lauch Ramp Parking	1935.90	0.2110	2	None Detected			0.0009	<4.70	<0.0009
81004-OFD-LRP-0 2 341813679-0002	WP081A AM Launch Ramp Turnaround	1917.00	0.2110	2	None Detected			0.0010	<4.70	<0.0010
81004-OFD-LRP-0 3 341813679-0003	WP009A PM Lauch Ramp Parking	2016.20	0.1980	1	None Detected			0.0010	<5.00	<0.0010
81004-OFD-LRP-0 4 341813679-0004	WP081A PM Launch Ramp Turnaround	2031.80	0.1980	0	None Detected			0.0010	<5.00	<0.0010
81004-OFD-LRP-F B1 341813679-0005	Field Blank 1	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
81004-OFD-LRP-F B2 341813679-0006	Field Blank 2	0.00	0.1240	0	None Detected			N/A	<8.10	N/A

Analyst(s)

Gerald Iannuzzi (6)

  
Carlos Rivadeneyra, Laboratory Director  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Initial report from: 10/08/2018 18:11:09