

Appendix A – Laboratory Reports



LA Testing

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

LA Testing Order: 321915786
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: 2019.07.12 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/16/2019 9:15 AM
Analysis Date: 07/17/2019 - 07/18/2019
Collected Date: 07/12/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90712-OFD-PMT-0 1 321915786-0001	WP083A AM Dan Beebe Trail	1883.30	0.2060	6	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90712-OFD-PMT-0 2 321915786-0002	WP249 AM Canyon Drive	1922.40	0.2060	6	Chrysotile	1 0	0.0010	4.80	0.00097
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90712-OFD-PMT-0 3 321915786-0003	WP091A AM Upper Overlook	1917.00	0.2060	6	Chrysotile	0 1	0.0010	4.80	0.00097
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90712-OFD-PMT-0 4 321915786-0004	WP246 AM Intake Yard	1904.50	0.2060	7	Actinolite Chrysotile	1 0 1 0	0.0010	4.80 4.80	0.00098 0.00098
Total for all types.....								9.60	0.0020
90712-OFD-PMT-0 5 321915786-0005	WP083A PM Dan Beebe Trail	1981.00	0.2060	5	None Detected		0.0009	<4.80	<0.0009
90712-OFD-PMT-0 6 321915786-0006	WP249 PM Canyon Drive	1980.20	0.2060	8	None Detected		0.0009	<4.80	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90712-OFD-PMT-0 7 321915786-0007	WP091A PM Upper Overlook	1978.30	0.2060	6	None Detected		0.0009	<4.80	<0.0009
90712-OFD-PMT-0 8 321915786-0008	WP246 PM Intake Yard	1983.70	0.2060	2	Actinolite	1 2	0.0009	15.00	0.0028
90712-OFD-PMT-F B1 321915786-0009	Field blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
90712-OFD-PMT-F B2 321915786-0010	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

LA Testing Order: 321915786

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: 2019.07.12 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/16/2019 9:15 AM

Analysis Date: 07/17/2019 - 07/18/2019

Collected Date: 07/12/2019

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

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

Analyst(s)

Feng Liang (6)

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: 07/18/2019 13:29:04



LA Testing

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

LA Testing Order: 321915752
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: 2019.07.12 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/16/2019 9:15 AM
Analysis Date: 07/16/2019
Collected Date: 07/12/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm ²)	(S/cc)
90712-OFD-BPT-0 1	WP088A AM Burma Road 01	1944.90	0.2060	6	None Detected			0.0010	<4.80	<0.0010
321915752-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90712-OFD-BPT-0 2	WP088A PM Burma Road 01	1942.10	0.2060	7	None Detected			0.0010	<4.80	<0.0010
321915752-0002										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90712-OFD-BPT-F B1	Field blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
321915752-0003										
90712-OFD-BPT-F B2	Field blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
321915752-0004										

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: 07/16/2019 20:33:38



LA Testing

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

LA Testing Order: 321915755
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: 2019.07.12 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/16/2019 9:15 AM
Analysis Date: 07/16/2019 - 07/17/2019
Collected Date: 07/12/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90712-OFD-LRP-01 321915755-0001	WP009A AM Launch Ramp Parking	1903.70	0.2060	10	None Detected			0.0010	<4.80	<0.0010
90712-OFD-LRP-02 321915755-0002	WP081A AM Launch Ramp Turnaround	1920.70	0.2060	7	Chrysotile	1	0	0.0010	4.80	0.00097
90712-OFD-LRP-03 321915755-0003	WP009A PM Launch Ramp Parking	1963.70	0.2060	6	Actinolite	0	1	0.0010	4.80	0.00095
90712-OFD-LRP-04 321915755-0004	WP081A PM Launch Ramp Turnaround	1975.60	0.2060	11	None Detected			0.0009	<4.80	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90712-OFD-LRP-F B1 321915755-0005	Field blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
90712-OFD-LRP-F B2 321915755-0006	Field blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	N/A

Analyst(s)
 Feng Liang (3)
 Kyeong Corbin (3)


 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: 07/17/2019 10:35:47



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

EMSL Order: 411907083

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: 2019.07.13 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/16/2019 9:10 AM

Analysis Date: 07/16/2019

Collected Date: 07/13/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90713-OFD-PMT-0 1 411907083-0001	WP083A AM Dan Beebe Trail	1906.40	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90713-OFD-PMT-0 2 411907083-0002	WP249 AM Canyon Drive	1918.00	0.2080	1	None Detected		0.0010	<4.80	<0.0010
90713-OFD-PMT-0 3 411907083-0003	WP091A AM Upper Overlook	1923.30	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90713-OFD-PMT-0 4 411907083-0004	WP246 AM Intake Yard	1920.70	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90713-OFD-PMT-0 5 411907083-0005	WP083A PM Dan Beebe Trail	1963.80	0.2080	0	None Detected		0.0009	<4.80	<0.0009
90713-OFD-PMT-0 6 411907083-0006	WP249 PM Canyon Drive	1966.60	0.2080	0	None Detected		0.0009	<4.80	<0.0009
90713-OFD-PMT-0 7 411907083-0007	WP091A PM Upper Overlook	1971.10	0.2080	0	None Detected		0.0009	<4.80	<0.0009
90713-OFD-PMT-0 8 411907083-0008	WP246 PM Intake Yard	1959.30	0.2080	0	None Detected		0.0009	<4.80	<0.0010
90713-OFD-PMT-F B1 411907083-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90713-OFD-PMT-F B2 411907083-0010	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

EMSL Order: 411907083

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: 2019.07.13 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/16/2019 9:10 AM

Analysis Date: 07/16/2019

Collected Date: 07/13/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(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: 07/17/2019 08:12:29



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

EMSL Order: 411907085

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: 2019.07.13 Burma Rd. (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/16/2019 9:10 AM
Analysis Date: 07/16/2019
Collected Date: 07/13/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
90713-OFD-BPT-0 1 411907085-0001	WP088A AM Burma Road 01	1932.30	0.2080	0	None Detected			0.0010	<4.80	<0.0010
90713-OFD-BPT-0 2 411907085-0002	WP088A PM Burma Road 01	1955.70	0.2080	0	None Detected			0.0009	<4.80	<0.0010
90713-OFD-BPT-F B1 411907085-0003	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
90713-OFD-BPT-F B2 411907085-0004	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

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 07/17/2019 08:12:50



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

EMSL Order: 411907084

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: 2019.07.13 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/16/2019 9:10 AM

Analysis Date: 07/17/2019

Collected Date: 07/13/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90713-OFD-LRP-01 411907084-0001	WP009A AM Launch Ramp Parking	1901.80	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90713-OFD-LRP-02 411907084-0002	WP081A AM Launch Ramp Turnaround	1909.90	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90713-OFD-LRP-03 411907084-0003	WP009A PM Launch Ramp Parking	1949.40	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90713-OFD-LRP-04 411907084-0004	WP081A PM Launch Ramp Turnaround	1953.90	0.2080	0	None Detected		0.0009	<4.80	<0.0010
90713-OFD-LRP-F B1 411907084-0005	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90713-OFD-LRP-F B2 411907084-0006	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

Derrick Young (6)

Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 07/17/2019 17:06:20



EMSL Analytical, Inc.

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

EMSL Order: 141903464
 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: 2019.07.14 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/16/2019 12:38 PM
Analysis Date: 07/18/2019
Collected Date: 07/14/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90714-OFD-PMT-01 141903464-0001	WP083A AM Dan Beebe Trail	1918.90	0.2110	0	None Detected		0.0010	<4.70	<0.0010
90714-OFD-PMT-02 141903464-0002	WP249 AM Canyon Drive	1934.10	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90714-OFD-PMT-03 141903464-0003	WP091A AM Upper Overlook	1926.90	0.2110	0	None Detected		0.0009	<4.70	<0.0010
90714-OFD-PMT-04 141903464-0004	WP246 AM Intake Yard	1926.00	0.2110	0	None Detected		0.0009	<4.70	<0.0010
90714-OFD-PMT-05 141903464-0005	WP083A PM Dan Beebe Trail	1944.00	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90714-OFD-PMT-06 141903464-0006	WP249 PM Canyon Drive	1941.30	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90714-OFD-PMT-07 141903464-0007	WP091A PM Upper Overlook	1958.40	0.1980	0	None Detected		0.0010	<5.10	<0.0010
90714-OFD-PMT-08 141903464-0008	WP246 PM Intake Yard	1953.90	0.1980	0	None Detected		0.0010	<5.10	<0.0010
90714-OFD-PMT-F B1 141903464-0009	Field Blank 1	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
90714-OFD-PMT-F B2 141903464-0010	Field Blank 2	0.00	0.1320	0	None Detected		N/A	<7.60	N/A



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043

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

<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 141903464

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: 2019.07.14 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/16/2019 12:38 PM

Analysis Date: 07/18/2019

Collected Date: 07/14/2019

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

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

Analyst(s)

Mark Tate (10)

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY

Initial report from: 07/18/2019 14:02:55



EMSL Analytical, Inc.

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

EMSL Order: 141903460
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: 2019.07.14 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/16/2019 12:38 PM
Analysis Date: 07/18/2019
Collected Date: 07/14/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
90714-OFD-BPT-0 1 141903460-0001	WP088A AM Burma Road 01	1938.60	0.2110	0	None Detected			0.0009	<4.70	<0.0009
90714-OFD-BPT-0 2 141903460-0002	WP088A PM Burma Road 01	1940.40	0.2110	0	None Detected			0.0009	<4.70	<0.0009
90714-OFD-BPT-F B1 141903460-0003	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
90714-OFD-BPT-F B2 141903460-0004	Field Blank 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A

Analyst(s)
Mark Tate (4)


Rhonda McGee, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY

Report amended: 07/19/2019 19:23:46 Replaces initial report from: 07/18/2019 08:42:31 Reason Code: Data Entry-Change to Project



EMSL Analytical, Inc.

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

EMSL Order: 141903462
 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: 2019.07.14 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/16/2019 12:38 PM
Analysis Date: 07/18/2019
Collected Date: 07/14/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90714-OFD-LRP-01 141903462-0001	WP009A AM Launch Ramp Parking	1926.90	0.2110	0	None Detected		0.0009	<4.70	<0.0010
90714-OFD-LRP-02 141903462-0002	WP081A AM Launch Ramp Turnaround	1934.10	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90714-OFD-LRP-03 141903462-0003	WP009A PM Launch Ramp Parking	1944.90	0.1980	0	None Detected		0.0010	<5.10	<0.0010
90714-OFD-LRP-04 141903462-0004	WP081A PM Launch Ramp Turnaround	1946.70	0.1980	0	None Detected		0.0010	<5.10	<0.0010
90714-OFD-LRP-F B1 141903462-0005	Field Blank 1	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
90714-OFD-LRP-F B2 141903462-0006	Field Blank 2	0.00	0.1320	0	None Detected		N/A	<7.60	N/A

Analyst(s)
 Mark Tate (6)


 Rhonda McGee, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Depew, NY

Initial report from: 07/18/2019 10:22:03



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161913925

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: 2019.07.15 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/17/2019 9:20 AM

Analysis Date: 07/22/2019

Collected Date: 07/15/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90715-OFD-PMT-0 1 161913925-0001	WP083A AM Dan Beebe Trail	1924.20	0.2100	2	None Detected		0.0010	<4.80	<0.0010
90715-OFD-PMT-0 2 161913925-0002	WP249 AM Canyon Drive	1934.10	0.2100	0	None Detected		0.0010	<4.80	<0.0010
90715-OFD-PMT-0 3 161913925-0003	WP091A AM Upper Overlook	1930.50	0.2100	0	None Detected		0.0010	<4.80	<0.0010
90715-OFD-PMT-0 4 161913925-0004	WP246 AM Intake Yard	1918.90	0.2100	0	None Detected		0.0010	<4.80	<0.0010
90715-OFD-PMT-0 5 161913925-0005	WP083A PM Dan Beebe Trail	1971.10	0.1970	1	None Detected		0.0010	<5.10	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90715-OFD-PMT-0 6 161913925-0006	WP249 PM Canyon Drive	1596.10	0.2490	2	None Detected		0.0010	<4.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90715-OFD-PMT-0 7 161913925-0007	WP091A PM Upper Overlook	1920.80	0.2100	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90715-OFD-PMT-0 8 161913925-0008	WP246 PM Intake Yard	1953.90	0.2100	0	Actinolite	0 1	0.0009	4.80	0.00094
90715-OFD-PMT-F B1 161913925-0009	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90715-OFD-PMT-F B2 161913925-0010	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislabs@emsl.com

EMSL Order: 161913925

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: 2019.07.15 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/17/2019 9:20 AM

Analysis Date: 07/22/2019

Collected Date: 07/15/2019

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

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

Analyst(s)

Craig Nixon (9)

Richard Harding (1)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 07/22/2019 08:00:12



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161913936

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: 2019.07.15 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/17/2019 9:20 AM

Analysis Date: 07/18/2019 - 07/22/2019

Collected Date: 07/15/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90715-OFD-BPT-0 1 161913936-0001	WP088A AM Burma Road 01	1958.30	0.2100	2	None Detected		0.0009	<4.80	<0.0009
90715-OFD-BPT-0 2 161913936-0002	WP088A PM Burma Road 01	1920.70	0.2100	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90715-OFD-BPT-F B1 161913936-0003	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90715-OFD-BPT-F B2 161913936-0004	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Analyst(s)

Craig Nixon (4)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 07/22/2019 06:56:16



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161913932

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: 2019.07.15 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/17/2019 9:20 AM

Analysis Date: 07/18/2019

Collected Date: 07/15/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90715-OFD-LRP-01 161913932-0001	WP009A AM Launch Ramp Parking	1918.90	0.2100	1	None Detected		0.0010	<4.80	<0.0010
90715-OFD-LRP-02 161913932-0002	WP081A AM Launch Ramp Turnaround	1933.20	0.2100	1	None Detected		0.0010	<4.80	<0.0010
90715-OFD-LRP-03 161913932-0003	WP009A PM Launch Ramp Parking	1962.90	0.1970	0	None Detected		0.0010	<5.10	<0.0010
90715-OFD-LRP-04 161913932-0004	WP081A PM Launch Ramp Turnaround	1982.90	0.1970	0	None Detected		0.0010	<5.10	<0.0010
90715-OFD-LRP-F B1 161913932-0005	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90715-OFD-LRP-F B2 161913932-0006	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Analyst(s)

Craig Nixon (6)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 07/18/2019 09:15:59



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: 311901484

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: 2019.07.16 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/18/2019 9:00 AM

Analysis Date: 07/19/2019 - 07/23/2019

Collected Date: 07/16/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90716-OFD-PMT-01 311901484-0001	WP083A AM Dan Beebe Trail	1928.70	0.2080	5	None Detected		0.0010	<4.80	<0.0010
90716-OFD-PMT-02 311901484-0002	WP249 AM Canyon Drive	1918.90	0.2080	11	Actinolite	1 0	0.0010	4.80	0.00096
90716-OFD-PMT-03 311901484-0003	WP091A AM Upper Overlook	1931.40	0.2080	7	None Detected		0.0010	<4.80	<0.0010
90716-OFD-PMT-04 311901484-0004	WP246 AM Intake Yard	1931.40	0.2080	4	None Detected		0.0010	<4.80	<0.0010
90716-OFD-PMT-05 311901484-0005	WP083A PM Dan Beebe Trail	1953.90	0.2080	6	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90716-OFD-PMT-06 311901484-0006	WP249 PM Canyon Drive	1953.90	0.2080	7	Actinolite	0 1	0.0009	4.80	0.00095
90716-OFD-PMT-07 311901484-0007	WP091A PM Upper Overlook	1951.20	0.2080	6	None Detected		0.0009	<4.80	<0.0010
90716-OFD-PMT-08 311901484-0008	WP246 PM Intake Yard	1946.70	0.2080	6	Actinolite	1 0	0.0010	4.80	0.00095
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90716-OFD-PMT-F B1 311901484-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90716-OFD-PMT-F B2 311901484-0010	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A



EMSL Analytical, Inc.

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

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

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

EMSL Order: 311901484

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: 2019.07.16 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/18/2019 9:00 AM

Analysis Date: 07/19/2019 - 07/23/2019

Collected Date: 07/16/2019

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

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

Analyst(s)

Shannon Ferguson (8)

William Bradford (2)

Shannon Ferguson, Laboratory Manager
or other approved signatory

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

Initial report from: 07/25/2019 17:14:52



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: 311901487

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: 2019.07.16 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/18/2019 9:00 AM

Analysis Date: 07/19/2019

Collected Date: 07/16/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90716-OFD-BPT-01 311901487-0001	WP088A AM Burma Road 01	1938.60	0.2080	11	Actinolite	1 0	0.0010	4.80	0.00095
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90716-OFD-BPT-02 311901487-0002	WP088A PM Burma Road 01	1952.10	0.2210	24	None Detected		0.0009	<4.50	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90716-OFD-BPT-F B1 311901487-0003	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90716-OFD-BPT-F B2 311901487-0004	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

William Bradford (4)

Shannon Ferguson, Laboratory Manager
or other approved signatory

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

Initial report from: 07/19/2019 13:35:29



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: 311901486

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: 2019.07.16 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/18/2019 9:00 AM

Analysis Date: 07/25/2019

Collected Date: 07/16/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90716-OFD-LRP-01 311901486-0001	WP009A AM Launch Ramp Parking	1900.10	0.2080	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90716-OFD-LRP-02 311901486-0002	WP081A AM Launch Ramp Turnaround	1901.80	0.2080	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90716-OFD-LRP-03 311901486-0003	WP009A PM Launch Ramp Parking	1959.30	0.2080	1	None Detected		0.0009	<4.80	<0.0010
90716-OFD-LRP-04 311901486-0004	WP081A PM Launch Ramp Turnaround	1962.00	0.2080	1	None Detected		0.0009	<4.80	<0.0009
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90716-OFD-LRP-F B1 311901486-0005	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90716-OFD-LRP-F B2 311901486-0006	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

Peter Donato (6)

Shannon Ferguson, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 07/26/2019 09:30:21



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: 531901104

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: 2019.07.17 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/19/2019 11:22 AM

Analysis Date: 07/24/2019 - 07/25/2019

Collected Date: 07/17/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90717-OFD-PMT-0 1 531901104-0001	WP083A AM Dan Beebe Trail	1918.90	0.2020	0	None Detected		0.0010	<5.00	<0.0010
90717-OFD-PMT-0 2 531901104-0002	WP249 AM Canyon Drive	1917.10	0.2020	2	None Detected		0.0010	<5.00	<0.0010
90717-OFD-PMT-0 3 531901104-0003	WP091A AM Upper Overlook	1918.90	0.2020	0	None Detected		0.0010	<5.00	<0.0010
90717-OFD-PMT-0 4 531901104-0004	WP246 AM Intake Yard	1934.10	0.2020	2	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90717-OFD-PMT-0 5 531901104-0005	WP083A PM Dan Beebe Trail	1952.10	0.2020	1	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90717-OFD-PMT-0 6 531901104-0006	WP249 PM Canyon Drive	1956.60	0.2020	0	None Detected		0.0010	<5.00	<0.0010
90717-OFD-PMT-0 7 531901104-0007	WP091A PM Upper Overlook	1956.60	0.2020	0	None Detected		0.0010	<5.00	<0.0010
90717-OFD-PMT-0 8 531901104-0008	WP246 PM Intake Yard	1951.20	0.2020	0	None Detected		0.0010	<5.00	<0.0010
90717-OFD-PMT-F B1 531901104-0009	Field Blank 1	0.00	0.1260	0	None Detected		N/A	<7.90	N/A
90717-OFD-PMT-F B2 531901104-0010	Field Blank 2	0.00	0.1260	0	None Detected		N/A	<7.90	N/A



EMSL Analytical, Inc.

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

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

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

EMSL Order: 531901104

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: 2019.07.17 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/19/2019 11:22 AM

Analysis Date: 07/24/2019 - 07/25/2019

Collected Date: 07/17/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(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: 07/25/2019 15:14:53



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: 531901101

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: 2019.07.17 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/19/2019 10:55 AM

Analysis Date: 07/23/2019

Collected Date: 07/17/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90717-OFD-BPT-01 531901101-0001	WP088A AM Burma Road 01	1962.90	0.2020	5	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90717-OFD-BPT-02 531901101-0002	WP088A PM Burma Road 01	1919.70	0.2020	3	Actinolite	0 1	0.0010	5.00	0.00099
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90717-OFD-BPT-F B1 531901101-0003	Field Blank 1	0.00	0.1260	0	None Detected		N/A	<7.90	N/A
90717-OFD-BPT-F B2 531901101-0004	Field Blank 2	0.00	0.1260	0	None Detected		N/A	<7.90	N/A

Analyst(s)

Peter Donato (4)

Peter Donato Asbestos Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 07/23/2019 12:26:39



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: 531901102

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: 2019.07.17 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/19/2019 11:04 AM

Analysis Date: 07/23/2019

Collected Date: 07/17/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90717-OFD-LRP-01 531901102-0001	WP009A AM Launch Ramp Parking	1923.30	0.2020	3	None Detected		0.0010	<5.00	<0.0010
90717-OFD-LRP-02 531901102-0002	WP081A AM Launch Ramp Turnaround	1916.20	0.2020	3	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90717-OFD-LRP-03 531901102-0003	WP009A PM Launch Ramp Parking	1953.90	0.2020	0	None Detected		0.0010	<5.00	<0.0010
90717-OFD-LRP-04 531901102-0004	WP081A PM Launch Ramp Turnaround	1951.20	0.2020	1	None Detected		0.0010	<5.00	<0.0010
90717-OFD-LRP-F B1 531901102-0005	Field Blank 1	0.00	0.1260	0	None Detected		N/A	<7.90	N/A
90717-OFD-LRP-F B2 531901102-0006	Field Blank 2	0.00	0.1260	0	None Detected		N/A	<7.90	N/A

Analyst(s)

Peter Donato (6)

Peter Donato Asbestos Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 07/23/2019 16:46:18



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161914278

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: 2019.07.18 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/22/2019 8:00 AM

Analysis Date: 07/24/2019

Collected Date: 07/18/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90718-OFD-PMT-01 161914278-0001	WP083A AM Dan Beebe Trail	1916.20	0.2100	0	None Detected		0.0010	<4.80	<0.0010
90718-OFD-PMT-02 161914278-0002	WP249 AM Canyon Drive	1934.10	0.2100	0	None Detected		0.0010	<4.80	<0.0010
90718-OFD-PMT-03 161914278-0003	WP091A AM Upper Overlook	1934.10	0.2100	0	None Detected		0.0010	<4.80	<0.0010
90718-OFD-PMT-04 161914278-0004	WP246 AM Intake Yard	1934.10	0.2100	0	None Detected		0.0010	<4.80	<0.0010
90718-OFD-PMT-05 161914278-0005	WP083A PM Dan Beebe Trail	1944.00	0.2100	2	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90718-OFD-PMT-06 161914278-0006	WP249 PM Canyon Drive	1948.50	0.2100	0	None Detected		0.0009	<4.80	<0.0009
90718-OFD-PMT-07 161914278-0007	WP091A PM Upper Overlook	1951.20	0.2100	1	None Detected		0.0009	<4.80	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90718-OFD-PMT-08 161914278-0008	WP246 PM Intake Yard	1944.00	0.2100	0	None Detected		0.0009	<4.80	<0.0010
90718-OFD-PMT-F B1 161914278-0009	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90718-OFD-PMT-F B2 161914278-0010	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislaboratory@emsl.com

EMSL Order: 161914278

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: 2019.07.18 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/22/2019 8:00 AM

Analysis Date: 07/24/2019

Collected Date: 07/18/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(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: 07/24/2019 11:59:16



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161914276

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: 2019.07.18 Burma Rd. (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/22/2019 8:00 AM

Analysis Date: 07/23/2019

Collected Date: 07/18/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90718-OFD-BPT-0 1 161914276-0001	WP088A AM Burma Road 01	1941.30	0.2100	0	Actinolite	0 1	0.0009	4.80	0.00095
90718-OFD-BPT-0 2 161914276-0002	WP088A PM Burma Road 01	1948.50	0.2100	2	Actinolite	0 1	0.0009	4.80	0.00094
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90718-OFD-BPT-F B1 161914276-0003	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90718-OFD-BPT-F B2 161914276-0004	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Analyst(s)

Craig Nixon (4)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 07/23/2019 10:15:47



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161914277

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: 2019.07.18 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/22/2019 8:00 AM

Analysis Date: 07/23/2019 - 07/24/2019

Collected Date: 07/18/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90718-OFD-LRP-01 161914277-0001	WP009A AM Launch Ramp Parking	1926.90	0.2100	1	None Detected		0.0010	<4.80	<0.0010
90718-OFD-LRP-02 161914277-0002	WP081A AM Launch Ramp Turnaround	1936.80	0.2100	0	None Detected		0.0009	<4.80	<0.0010
90718-OFD-LRP-03 161914277-0003	WP009A PM Launch Ramp Parking	1944.00	0.2100	0	None Detected		0.0009	<4.80	<0.0010
90718-OFD-LRP-04 161914277-0004	WP081A PM Launch Ramp Turnaround	1955.70	0.2100	0	None Detected		0.0009	<4.80	<0.0009
90718-OFD-LRP-F B1 161914277-0005	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90718-OFD-LRP-F B2 161914277-0006	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Analyst(s)

Craig Nixon (6)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 07/24/2019 07:27:25



LA Testing

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

LA Testing Order: 321916304
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: 2019.07.19 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/23/2019 9:00 AM
Analysis Date: 07/24/2019 - 07/25/2019
Collected Date: 07/19/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90719-OFD-PMT-01 321916304-0001	WP083A AM Dan Beebe Trail	1926.90	0.2060	6	Actinolite	1	0	0.0010	4.80	0.00097
90719-OFD-PMT-02 321916304-0002	WP249 AM Canyon Drive	1924.20	0.2060	9	None Detected			0.0010	<4.80	<0.0010
90719-OFD-PMT-03 321916304-0003	WP091A AM Upper Overlook	1921.60	0.2060	5	Chrysotile	1	0	0.0010	4.80	0.00097
90719-OFD-PMT-04 321916304-0004	WP246 AM Intake Yard	1921.60	0.2060	2	Chrysotile	1	0	0.0010	4.80	0.00097
90719-OFD-PMT-05 321916304-0005	WP083A PM Dan Beebe Trail	1963.80	0.2060	3	Actinolite	0	1	0.0010	4.80	0.00095
90719-OFD-PMT-06 321916304-0006	WP249 PM Canyon Drive	1961.10	0.2060	4	None Detected			0.0010	<4.80	<0.0010
90719-OFD-PMT-07 321916304-0007	WP091A PM Upper Overlook	1966.60	0.2060	9	Actinolite Chrysotile	1 1	0 1	0.0009	4.80 9.70	0.00095 0.0019
Total for all types.....									14.50	0.0029
90719-OFD-PMT-08 321916304-0008	WP246 PM Intake Yard	1963.80	0.2060	5	Chrysotile	1	0	0.0010	4.80	0.00095
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90719-OFD-PMT-F B1 321916304-0009	Field blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
90719-OFD-PMT-F B2 321916304-0010	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

LA Testing Order: 321916304

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: 2019.07.19 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/23/2019 9:00 AM

Analysis Date: 07/24/2019 - 07/25/2019

Collected Date: 07/19/2019

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

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

Analyst(s)

Feng Liang (6)

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: 07/25/2019 10:34:05



LA Testing

520 Mission Street South Pasadena, CA 91030

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

<http://www.LATesting.com> / pasadenalab@latesting.com

LA Testing Order: 321916290

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: 2019.07.19 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/23/2019 9:00 AM

Analysis Date: 07/23/2019

Collected Date: 07/19/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm ²)	(S/cc)
90719-OFD-BPT-0 1	WP088A AM Burma Road 01	1955.60	0.2060	12	None Detected			0.0010	<4.80	<0.0010
321916290-0001										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90719-OFD-BPT-0 2	WP088A PM Burma Road 01	1912.60	0.2060	14	Actinolite	1	0	0.0010	4.80	0.00098
321916290-0002										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90719-OFD-BPT-F B1	Field blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
321916290-0003										
90719-OFD-BPT-F B2	Field blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
321916290-0004										

Analyst(s)

Kyeong Corbin (4)

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

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Samples analyzed by LA Testing South Pasadena, CA

Initial report from: 07/23/2019 15:08:35



LA Testing

520 Mission Street South Pasadena, CA 91030

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

<http://www.LATesting.com> / pasadenalab@latesting.com

LA Testing Order: 321916301

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: 2019.07.19 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/23/2019 9:00 AM

Analysis Date: 07/24/2019

Collected Date: 07/19/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90719-OFD-LRP-01 321916301-0001	WP009A AM Launch Ramp Parking	1926.00	0.2060	13	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90719-OFD-LRP-02 321916301-0002	WP081A AM Launch Ramp Turnaround	1928.70	0.2060	4	Actinolite	0	1	0.0010	4.80	0.00097
90719-OFD-LRP-03 321916301-0003	WP009A PM Launch Ramp Parking	1978.30	0.2060	2	None Detected			0.0009	<4.80	<0.0009
90719-OFD-LRP-04 321916301-0004	WP081A PM Launch Ramp Turnaround	1969.10	0.2060	12	Actinolite Chrysotile	1 1	0 0	0.0009	4.80 4.80	0.00095 0.00095
Total for all types.....									9.60	0.0019
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
90719-OFD-LRP-F B1 321916301-0005	Field blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
90719-OFD-LRP-F B2 321916301-0006	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: 07/24/2019 12:52:20



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

EMSL Order: 411907351

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: 2019.07.20 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/23/2019 9:05 AM

Analysis Date: 07/23/2019

Collected Date: 07/20/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90720-OFD-PMT-0 1 411907351-0001	WP083A AM Dan Beebe Trail	1918.90	0.2080	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
90720-OFD-PMT-0 2 411907351-0002	WP249 AM Canyon Drive	1914.40	0.2080	2	None Detected		0.0010	<4.80	<0.0010
90720-OFD-PMT-0 3 411907351-0003	WP091A AM Upper Overlook	1918.90	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90720-OFD-PMT-0 4 411907351-0004	WP246 AM Intake Yard	1917.10	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90720-OFD-PMT-0 5 411907351-0005	WP083A PM Dan Beebe Trail	1946.70	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90720-OFD-PMT-0 6 411907351-0006	WP249 PM Canyon Drive	1946.70	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90720-OFD-PMT-0 7 411907351-0007	WP091A PM Upper Overlook	1953.90	0.2080	0	None Detected		0.0009	<4.80	<0.0010
90720-OFD-PMT-0 8 411907351-0008	WP246 PM Intake Yard	1953.90	0.2080	0	None Detected		0.0009	<4.80	<0.0010
90720-OFD-PMT-F B1 411907351-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90720-OFD-PMT-F B2 411907351-0010	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

EMSL Order: 411907351

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: 2019.07.20 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/23/2019 9:05 AM

Analysis Date: 07/23/2019

Collected Date: 07/20/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(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: 07/23/2019 16:24:03



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

EMSL Order: 411907353

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: 2019.07.20 Burma Rd. (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/23/2019 9:05 AM

Analysis Date: 07/23/2019

Collected Date: 07/20/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90720-OFD-BPT-01 411907353-0001	WP088A AM Burma Road 01	1971.00	0.2080	0	None Detected			0.0009	<4.80	<0.0009
90720-OFD-BPT-02 411907353-0002	WP088A PM Burma Road 01	1914.30	0.2080	0	Actinolite	0	1	0.0010	4.80	0.00097
90720-OFD-BPT-F B1 411907353-0003	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
90720-OFD-BPT-F B2 411907353-0004	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

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 07/24/2019 08:23:22



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

EMSL Order: 411907352

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: 2019.07.20 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/23/2019 9:05 AM

Analysis Date: 07/23/2019

Collected Date: 07/20/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90720-OFD-LRP-01 411907352-0001	WP009A AM Launch Ramp Parking	1910.80	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90720-OFD-LRP-02 411907352-0002	WP081A AM Launch Ramp Turnaround	1907.20	0.2080	0	None Detected		0.0010	<4.80	<0.0010
90720-OFD-LRP-03 411907352-0003	WP009A PM Launch Ramp Parking	1959.30	0.2080	0	None Detected		0.0009	<4.80	<0.0010
90720-OFD-LRP-04 411907352-0004	WP081A PM Launch Ramp Turnaround	1962.00	0.2080	0	None Detected		0.0009	<4.80	<0.0009
90720-OFD-LRP-F B1 411907352-0005	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
90720-OFD-LRP-F B2 411907352-0006	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

Aaron Hartley (6)

Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 07/24/2019 08:23:01



EMSL Analytical, Inc.

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

EMSL Order: 141903681
 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: 2019.07.21 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/23/2019 9:12 AM
Analysis Date: 07/25/2019
Collected Date: 07/21/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90721-OFD-PMT-01 141903681-0001	WP083A AM Dan Beebe Trail	1933.20	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90721-OFD-PMT-02 141903681-0002	WP249 AM Canyon Drive	1926.00	0.2110	0	None Detected		0.0009	<4.70	<0.0010
90721-OFD-PMT-03 141903681-0003	WP091A AM Upper Overlook	1926.00	0.2110	0	None Detected		0.0009	<4.70	<0.0010
90721-OFD-PMT-04 141903681-0004	WP246 AM Intake Yard	1930.50	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90721-OFD-PMT-05 141903681-0005	WP083A PM Dan Beebe Trail	1946.70	0.1980	0	None Detected		0.0010	<5.10	<0.0010
90721-OFD-PMT-06 141903681-0006	WP249 PM Canyon Drive	1945.80	0.1980	0	None Detected		0.0010	<5.10	<0.0010
90721-OFD-PMT-07 141903681-0007	WP091A PM Upper Overlook	1945.80	0.1980	0	None Detected		0.0010	<5.10	<0.0010
90721-OFD-PMT-08 141903681-0008	WP246 PM Intake Yard	1951.20	0.1980	0	None Detected		0.0010	<5.10	<0.0010
90721-OFD-PMT-F B1 141903681-0009	Field Blank 1	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
90721-OFD-PMT-F B2 141903681-0010	Field Blank 2	0.00	0.1320	0	None Detected		N/A	<7.60	N/A



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043

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

<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 141903681

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: 2019.07.21 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/23/2019 9:12 AM

Analysis Date: 07/25/2019

Collected Date: 07/21/2019

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

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

Analyst(s)

Mark Tate (10)

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY

Initial report from: 07/25/2019 14:25:39



EMSL Analytical, Inc.

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

EMSL Order: 141903679
 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: 2019.07.21 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/23/2019 9:12 AM
Analysis Date: 07/25/2019
Collected Date: 07/21/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90721-OFD-BPT-01 141903679-0001	WP088A AM Burma Road 01	1912.50	0.2110	0	None Detected		0.0010	<4.70	<0.0010
90721-OFD-BPT-02 141903679-0002	WP088A PM Burma Road 01	1941.30	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90721-OFD-BPT-F B1 141903679-0003	Field Blank 1	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
90721-OFD-BPT-F B2 141903679-0004	Field Blank 2	0.00	0.1320	0	None Detected		N/A	<7.60	N/A

Analyst(s)
 Mark Tate (4)


 Rhonda McGee, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Depew, NY

Initial report from: 07/25/2019 08:47:25



EMSL Analytical, Inc.

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

EMSL Order: 141903680
 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: 2019.07.21 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/23/2019 9:12 AM
Analysis Date: 07/25/2019
Collected Date: 07/21/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90721-OFD-LRP-01 141903680-0001	WP009A AM Launch Ramp Parking	1913.50	0.2110	0	None Detected		0.0010	<4.70	<0.0010
90721-OFD-LRP-02 141903680-0002	WP081A AM Launch Ramp Turnaround	1918.00	0.2110	0	None Detected		0.0010	<4.70	<0.0010
90721-OFD-LRP-03 141903680-0003	WP081A PM Launch Ramp Parking	1944.00	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90721-OFD-LRP-04 141903680-0004	WP081A PM Launch Ramp Turnaround	1939.50	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90721-OFD-LRP-F B1 141903680-0005	Field Blank 1	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
90721-OFD-LRP-F B2 141903680-0006	Field Blank 2	0.00	0.1320	0	None Detected		N/A	<7.60	N/A

Analyst(s)
 Mark Tate (6)


 Rhonda McGee, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Depew, NY

Initial report from: 07/25/2019 11:12:08



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

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

<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331915669

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: 2019.07.22 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/24/2019 10:30 AM

Analysis Date: 07/29/2019 - 07/30/2019

Collected Date: 07/22/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90722-OFD-PMT-01 331915669-0001	WP083A AM Dan Beebe Trail	1928.70	0.2110	4	None Detected		0.0009	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90722-OFD-PMT-02 331915669-0002	WP249 AM Canyon Drive	1934.10	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90722-OFD-PMT-03 331915669-0003	WP091A AM Upper Overlook	1924.20	0.2110	1	None Detected		0.0009	<4.70	<0.0010
90722-OFD-PMT-04 331915669-0004	WP246 AM Intake Yard	1931.40	0.2110	0	None Detected		0.0009	<4.70	<0.0010
90722-OFD-PMT-05 331915669-0005	WP083A PM Dan Beebe Trail	1962.00	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90722-OFD-PMT-06 331915669-0006	WP249 PM Canyon Drive	1959.30	0.1980	1	None Detected		0.0010	<5.00	<0.0010
90722-OFD-PMT-07 331915669-0007	WP091A AM Upper Overlook	1949.40	0.1980	2	None Detected		0.0010	<5.00	<0.0010
90722-OFD-PMT-08 331915669-0008	WP246 PM Intake Yard	1952.10	0.1980	0	None Detected		0.0010	<5.00	<0.0010
90722-OFD-PMT-F B1 331915669-0009	Field blank 1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
90722-OFD-PMT-F B2 331915669-0010	Field blank 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

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

<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331915669

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: 2019.07.22 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/24/2019 10:30 AM

Analysis Date: 07/29/2019 - 07/30/2019

Collected Date: 07/22/2019

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

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

Analyst(s)

Christopher Miranda (5)

Jeffrey Deboo (5)

Michael DeCavallas, Laboratory Manager
or other approved signatory

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

Samples analyzed by LA Testing Huntington Beach, CA

Initial report from: 07/30/2019 12:44:36



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

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

<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331915677

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: 2019.07.22 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/24/2019 10:30 AM

Analysis Date: 07/27/2019

Collected Date: 07/22/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90722-OFD-BPT-01 331915677-0001	WP088A AM Burma Road 01	1934.10	0.2110	0	None Detected		0.0009	<4.70	<0.0009
90722-OFD-BPT-02 331915677-0002	WP088A PM Burma Road 01	1945.80	0.1980	0	None Detected		0.0010	<5.00	<0.0010
90722-OFD-BPT-F B1 331915677-0003	Field blank1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
90722-OFD-BPT-F B2 331915677-0004	Field blank2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A

Analyst(s)

Jeffrey Deboo (4)

Michael DeCavallas, Laboratory Manager
or other approved signatory

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

Samples analyzed by LA Testing Huntington Beach, CA

Initial report from: 07/27/2019 15:15:51



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

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

<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331915674

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: 2019.07.22 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/24/2019 10:30 AM

Analysis Date: 07/26/2019 - 07/27/2019

Collected Date: 07/22/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90722-OFD-LRP-01 331915674-0001	WP009A AM Launch Ramp Parking	1926.00	0.2110	3	None Detected		0.0009	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90722-OFD-LRP-02 331915674-0002	WP081A AM Launch Ramp Turnaround	1933.20	0.2110	4	None Detected		0.0009	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90722-OFD-LRP-03 331915674-0003	WP009A PM Launch Ramp Parking	1962.90	0.1980	4	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90722-OFD-LRP-04 331915674-0004	WP081A PM Launch Ramp Turnaround	1967.50	0.1980	4	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
90722-OFD-LRP-F B1 331915674-0005	Field blank 1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
90722-OFD-LRP-F B2 331915674-0006	Field blank 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A

Analyst(s)

Mindy Le (6)

Michael DeCavallas, Laboratory Manager
or other approved signatory

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Samples analyzed by LA Testing Huntington Beach, CA

Initial report from: 07/29/2019 16:08:24



LA Testing

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

LA Testing Order: 321916736
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: 2019.07.23 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/29/2019 9:00 AM
Analysis Date: 07/29/2019
Collected Date: 07/23/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90723-OFD-PMT-0 1 321916736-0001	WP083A AM Dan Beebe Trail	1930.50	0.2060	9	Chrysotile	1	0	0.0010	4.80	0.00097
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90723-OFD-PMT-0 2 321916736-0002	WP249 AM Canyon Drive	1921.60	0.2060	10	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90723-OFD-PMT-0 3 321916736-0003	WP091A AM Upper Overlook	1931.40	0.2060	3	Actinolite Chrysotile Tremolite	0 1 1	1 0 0	0.0010	4.80 4.80 4.80	0.00097 0.00097 0.00097
Total for all types.....									14.40	0.0029
90723-OFD-PMT-0 4 321916736-0004	WP246 AM Intake Yard	1928.70	0.2060	7	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90723-OFD-PMT-0 5 321916736-0005	WP083A PM Dan Beebe Trail	1971.10	0.2060	6	None Detected			0.0009	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
90723-OFD-PMT-0 6 321916736-0006	WP249 PM Canyon Drive	1948.50	0.2060	3	Actinolite	1	0	0.0010	4.80	0.00096
90723-OFD-PMT-0 7 321916736-0007	WP091A PM Upper Overlook	1953.90	0.2060	2	None Detected			0.0010	<4.80	<0.0010
90723-OFD-PMT-0 8 321916736-0008	WP246 PM Intake Yard	1939.50	0.2060	1	None Detected			0.0010	<4.80	<0.0010
90723-OFD-PMT-F B1 321916736-0009	Field Blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
90723-OFD-PMT-F B2 321916736-0010	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

LA Testing Order: 321916736

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: 2019.07.23 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/29/2019 9:00 AM

Analysis Date: 07/29/2019

Collected Date: 07/23/2019

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

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

Analyst(s)

Feng Liang (10)

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

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Samples analyzed by LA Testing South Pasadena, CA

Report amended: 07/31/2019 08:50:23 Replaces amended report from: 07/31/2019 08:34:45 Reason Code: Data Entry-Results Changed



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: 531901191

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: 2019.07.23 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/29/2019 8:40 AM

Analysis Date: 07/30/2019

Collected Date: 07/23/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
907023-OFD-BPT-01 531901191-0001	WP088A AM Burma Road 01	1922.40	0.2060	5	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
907023-OFD-BPT-02 531901191-0002	WP088A PM Burma Road 01	1945.80	0.2060	2	None Detected		0.0010	<4.80	<0.0010
907023-OFD-BPT-FB1 531901191-0003	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
907023-OFD-BPT-FB2 531901191-0004	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	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: 07/30/2019 13:23:50



EMSL Analytical, Inc.

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

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

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

EMSL Order: 531901193

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: 2019.07.23 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/29/2019 8:54 AM

Analysis Date: 07/31/2019

Collected Date: 07/23/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90723-OFD-LRP-01 531901193-0001	WP009A AM Launch Ramp Parking	1918.00	0.2060	1	Actinolite	0	1	0.0010	4.80 0.00097
90723-OFD-LRP-02 531901193-0002	WP081A AM Launch Ramp Turnaround	1918.00	0.2060	3	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90723-OFD-LRP-03 531901193-0003	WP009A PM Launch Ramp Parking	1941.30	0.2060	1	None Detected		0.0010	<4.80	<0.0010
90723-OFD-LRP-04 531901193-0004	WP081A PM Launch Ramp Turnaround	1951.20	0.2060	0	None Detected		0.0010	<4.80	<0.0010
90723-OFD-LRP-F B1 531901193-0005	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
90723-OFD-LRP-F B2 531901193-0006	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	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: 07/31/2019 13:15:40



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: 531901181

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: 2019.07.24, Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/26/2019 10:17 AM

Analysis Date: 08/01/2019

Collected Date: 07/25/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90724-OFD-PMT-0 1 531901181-0001	WP083A AM Dan Beebe Trail	1926.90	0.2060	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90724-OFD-PMT-0 2 531901181-0002	WP249 AM Canyon Drive	1925.10	0.2060	1	Actinolite	1 0	0.0010	4.80	0.00097
90724-OFD-PMT-0 3 531901181-0003	WP091A AM Upper Overlook	1926.90	0.2060	0	None Detected		0.0010	<4.80	<0.0010
90724-OFD-PMT-0 4 531901181-0004	WP246 AM Intake Yard	1924.20	0.2060	0	None Detected		0.0010	<4.80	<0.0010
90724-OFD-PMT-0 5 531901181-0005	WP083A PM Dan Beebe Trail	1951.20	0.2060	0	None Detected		0.0010	<4.80	<0.0010
90724-OFD-PMT-0 6 531901181-0006	WP249 PM Canyon Drive	1948.50	0.2060	0	None Detected		0.0010	<4.80	<0.0010
90724-OFD-PMT-0 7 531901181-0007	WP091A PM Upper Overlook	1953.90	0.2060	1	None Detected		0.0010	<4.80	<0.0010
90724-OFD-PMT-0 8 531901181-0008	WP246 PM Intake Yard	1951.20	0.2060	0	None Detected		0.0010	<4.80	<0.0010
90724-OFD-PMT-F B1 531901181-0009	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
90724-OFD-PMT-F B2 531901181-0010	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	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

EMSL Order: 531901181

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: 2019.07.24, Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/26/2019 10:17 AM

Analysis Date: 08/01/2019

Collected Date: 07/25/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(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: 08/01/2019 17:16:53



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: 531901179

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: 2019.07.24, Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/26/2019 9:50 AM

Analysis Date: 08/01/2019

Collected Date: 07/25/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90724-OFD-BPT-01 531901179-0001	WP088A AM Burma Road 01	1934.10	0.2060	3	None Detected		0.0010	<4.80	<0.0010
90724-OFD-BPT-02 531901179-0002	WP088A PM Burma Road 01	1941.30	0.2060	0	None Detected		0.0010	<4.80	<0.0010
90724-OFD-BPT-F B1 531901179-0003	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
90724-OFD-BPT-F B2 531901179-0004	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	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: 08/01/2019 11:57:37



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: 531901180

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: 2019.07.24, Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/26/2019 10:07 AM

Analysis Date: 08/01/2019

Collected Date: 07/25/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90724-OFD-LRP-01 531901180-0001	WP009A AM Launch Ramp Parking	1917.10	0.2060	3	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90724-OFD-LRP-02 531901180-0002	WP081A AM Launch Ramp Turnaround	1924.20	0.2060	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
90724-OFD-LRP-03 531901180-0003	WP009A PM Launch Ramp Parking	1956.60	0.2060	0	None Detected		0.0010	<4.80	<0.0010
90724-OFD-LRP-04 531901180-0004	WP081A PM Launch Ramp Turnaround	1949.40	0.2060	1	None Detected		0.0010	<4.80	<0.0010
90724-OFD-LRP-F B1 531901180-0005	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
90724-OFD-LRP-F B2 531901180-0006	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	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: 08/01/2019 14:17:22



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161914908

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: 2019.07.25 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/29/2019 8:00 AM

Analysis Date: 07/31/2019

Collected Date: 07/25/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90725-OFD-PMT-0 1 161914908-0001	WP083A AM Dan Beebe Trail	1915.30	0.2100	3	None Detected		0.0010	<4.80	<0.0010
90725-OFD-PMT-0 2 161914908-0002	WP249 AM Canyon Drive	1923.30	0.2100	0	None Detected		0.0010	<4.80	<0.0010
90725-OFD-PMT-0 3 161914908-0003	WP091A AM Upper Overlook	1925.10	0.2100	2	None Detected		0.0010	<4.80	<0.0010
90725-OFD-PMT-0 4 161914908-0004	WP246 AM Intake Yard	1918.00	0.2100	3	None Detected		0.0010	<4.80	<0.0010
90725-OFD-PMT-0 5 161914908-0005	WP083A PM Dan Beebe Trail	1962.00	0.1970	0	None Detected		0.0010	<5.10	<0.0010
90725-OFD-PMT-0 6 161914908-0006	WP249 PM Canyon Drive	1656.60	0.2360	0	Chrysotile	1 0	0.0010	4.20	0.00099
90725-OFD-PMT-0 7 161914908-0007	WP091A PM Upper Overlook	1961.10	0.1970	0	None Detected		0.0010	<5.10	<0.0010
90725-OFD-PMT-0 8 161914908-0008	WP246 PM Intake Yard	1956.60	0.2100	1	None Detected		0.0009	<4.80	<0.0009
90725-OFD-PMT-F B1 161914908-0009	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90725-OFD-PMT-F B2 161914908-0010	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161914908

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: 2019.07.25 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/29/2019 8:00 AM

Analysis Date: 07/31/2019

Collected Date: 07/25/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(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: 07/31/2019 08:44:25



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161914909

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: 2019.07.25 Burma Rd. (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/29/2019 8:00 AM

Analysis Date: 07/30/2019

Collected Date: 07/25/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90725-OFD-BPT-0 1 161914909-0001	WP088A AM Burma Road 01	1939.50	0.2100	0	None Detected		0.0009	<4.80	<0.0010
Spider and web found in cassette.									
90725-OFD-BPT-0 2 161914909-0002	WP088A PM Burma Road 01	1943.10	0.2100	2	None Detected		0.0009	<4.80	<0.0010
90725-OFD-BPT-F B1 161914909-0003	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
90725-OFD-BPT-F B2 161914909-0004	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Analyst(s)

Craig Nixon (4)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 07/30/2019 07:44:30



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

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

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161914907

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: 2019.07.25 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/29/2019 8:00 AM

Analysis Date: 07/31/2019 - 08/01/2019

Collected Date: 07/25/2019

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

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
90725-OFD-LRP-01 161914907-0001	WP009A AM Launch Ramp Parking	1908.20	0.2100	2	None Detected			0.0010	<4.80	<0.0010
90725-OFD-LRP-02 161914907-0002	WP081A AM Launch Ramp Turnaround	1910.80	0.2100	0	None Detected			0.0010	<4.80	<0.0010
90725-OFD-LRP-03 161914907-0003	WP009A PM Launch Ramp Parking	1952.10	0.2100	0	Actinolite	0	1	0.0009	4.80	0.00094
90725-OFD-LRP-04 161914907-0004	WP081A PM Launch Ramp Turnaround	1942.20	0.2100	0	None Detected			0.0009	<4.80	<0.0010
90725-OFD-LRP-F B1 161914907-0005	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
90725-OFD-LRP-F B2 161914907-0006	Field Blank 2	0.00	0.1310	0	None Detected			N/A	<7.60	N/A

Analyst(s)

Craig Nixon (6)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from: 08/01/2019 07:30:01