	DWR Oroville Dam Air Quality Monitoring Februa	Sampling an Analysis Summary Report ry 09, 2018 through February 22, 2018
Appendix A – Laboratory Re	eports	
	Page 88 of 90	



EMSL Order: 041804485 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Phone: (661) 699-9375

Safety Management Systems Fax: 1001 Brad Freeman Trail Received Date:

 1001 Brad Freeman Trail
 Received Date:
 2/11/2018 9:15 AM

 Trailer #2 / Safety Mgmt Systems
 Analysis Date:
 02/12/2018 - 02/13/2018

Oroville, CA 95965 Collected Date: 02/09/2018

Project: 2018.02.09 Upper Area (Oroville EM OP)

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

	Location	Volume	Area Analyzed	Non	Asbestos	#Structi	ures	Analytical Sensitivity		estos ntration
Sample		(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0209-OFD-PMT-01	WP246 AM Intake Yard	1935.90	0.2030	0	Actinolite	1	0	0.0010	4.90	0.00098
041804485-0001										
0209-OFD-PMT-02	WP247 AM Upper Overlook Entry	1938.60	0.2030	0	None Detected			0.0010	<4.90	<0.0010
041804485-0002										
0209-OFD-PMT-03	WP248 AM Upper Overlook	1943.10	0.2030	0	None Detected			0.0010	<4.90	<0.0010
041804485-0003										
0209-OFD-PMT-04 041804485-0004	WP249 AM Canyon Drive	1934.10	0.2030	0	None Detected			0.0010	<4.90	<0.0010
0209-OFD-PMT-05 041804485-0005	WP246 PM Intake Yard	1942.20	0.2030	0	None Detected			0.0010	<4.90	<0.0010
0209-OFD-PMT-06	WP247 PM Upper Overlook Entry	1939.50	0.2030	0	None Detected			0.0010	<4.90	<0.0010
041804485-0006										
0209-OFD-PMT-07	WP248 PM Upper Overlook	1942.20	0.2030	0	None Detected			0.0010	<4.90	<0.0010
041804485-0007										
0209-OFD-PMT-08 041804485-0008	WP249 PM Canyon Drive	1936.80	0.2030	0	None Detected			0.0010	<4.90	<0.0010
0209-OFD-PMT-FB 1	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
041804485-0009										
0209-OFD-PMT-FB 2 041804485-0010	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A

Analyst(s)	

Matthew Dare (10)

Benjamin Ellis, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 02/14/2018 08:44:43



EMSL Order: 041804484 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH **Phone:** (661) 699-9375

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.09 Burma Road (Oroville EM OP)

Fax:

Received Date: 2/11/2018 9:15 AM

Analysis Date: 02/12/2018

Collected Date: 02/09/2018

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

		Volume	Area Analyzed (mm²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity		estos ntration
Sample	Location	(Liters)				≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0209-OFD-BPT-01	WP017A AM Burma Road 01	1979.10	0.2030	0	Actinolite	0	1	0.0010	4.90	0.00096
041804484-0001										
0209-OFD-BPT-02	WP017A PM Burma Road 01	1951.20	0.2030	0	None Detected			0.0010	<4.90	<0.0010
041804484-0002										
0209-OFD-BPT-FB	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
041804484-0003										
0209-OFD-BPT-FB 2 041804484-0004	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A

Analyst(s) Matthew Dare (4)

Benjamin Ellis, Laboratory Manager or other approved signatory

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Attention: Dave Beadle, CIH

EMSL Order: 041804483 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Phone: (661) 699-9375

Fax:

Received Date: 2/11/2018 9:15 AM **Analysis Date:** 02/12/2018 - 02/13/2018

Collected Date: 02/09/2018

Project: 2018.82.09 Launch Ramp (Oroville EM OP)

Trailer #2 / Safety Mgmt Systems

Safety Management Systems

1001 Brad Freeman Trail

Oroville, CA 95965

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

		Volume	Area Analyzed	Non	Asbestos	#Struct	ures	Analytical Sensitivity		estos ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0209-OFD-LRP-01	WP009A AM Launch Ramp Parking	1930.50	0.2030	9	Actinolite	30	9	0.0010	190.00	0.0380
041804483-0001										
Non-asbestos structures	s reported include a contribution from r	on-regulated an	nphiboles.							
0209-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1927.80	0.2030	0	Chrysotile	0	1	0.0010	4.90	0.00098
041804483-0002										
0209-OFD-LRP-03	WP009A PM Launch Ramp Parking	1949.40	0.2030	0	None Detected			0.0010	<4.90	<0.0010
041804483-0003										
0209-OFD-LRP-04	WP010a PM Launch Ramp Turnaround	1952.10	0.2030	0	None Detected			0.0010	<4.90	<0.0010
041804483-0004										
0209-OFD-LRP-FB 1	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
041804483-0005										
0209-OFD-LRP-FB 2 041804483-0006	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A

Analyst(s)	
Matthew Dare (6)	

Benjamin Ellis, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 02/14/2018 10:26:03



EMSL Order: 141800726 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail

Received Date: 2/11/2018 1:15 PM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/14/2018
Oroville, CA 95965 Collected Date: 02/10/2018

Project: 2018.02.10 Upper Area (Oroville EM OP)

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

		Volume	Area Analyzed	Non	Asbestos	#Structures	Analytical Sensitivity		estos ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5 ≥5µ	(S/cc)	(S/mm²)	(S/cc)
0210-OFD-PMT-01	WP246 AM Intake Yard	1933.20	0.2100	0	None Detected		0.0010	<4.80	<0.0010
141800726-0001									
0210-OFD-PMT-02	WP247 AM Upper Overlook Entry	1930.50	0.2100	0	None Detected		0.0010	<4.80	<0.0010
141800726-0002									
0210-OFD-PMT-03	WP248 AM Upper Overlook	1940.40	0.2100	0	None Detected		0.0009	<4.80	<0.0010
141800726-0003									
0210-OFD-PMT-04 141800726-0004	WP249 AM Canyon Drive	1935.90	0.2100	0	None Detected		0.0009	<4.80	<0.0010
0210-OFD-PMT-05 141800726-0005	WP246 PM Intake Yard	1958.30	0.2100	0	None Detected		0.0009	<4.80	<0.0009
0210-OFD-PMT-06	WP247 PM Upper Overlook Entry	1955.60	0.2100	0	None Detected		0.0009	<4.80	<0.0009
141800726-0006									
0210-OFD-PMT-07	WP248 PM Upper Overlook	1962.90	0.1970	0	None Detected		0.0010	<5.10	<0.0010
141800726-0007									
0210-OFD-PMT-08 141800726-0008	WP249 PM Canyon Drive	1942.20	0.2100	0	None Detected		0.0009	<4.80	<0.0010
0210-OFD-PMT-FB 1	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
141800726-0009									
0210-OFD-PMT-FB 2 141800726-0010	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Analyst(s)	
Mark Tate (10)	

Rhonda McGee, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0



EMSL Order: 141800728 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH **Phone:** (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/11/2018 1:15 PM

Trailer #2 / Safety Mgmt Systems **Analysis Date:** 02/15/2018 Oroville, CA 95965 Collected Date: 02/10/2018

Project: 2018.02.10 Burma Rd (Oroville EM OP)

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

		Volume	Area Analyzed (mm²)	Non	Asbestos Types	#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)		Asb		≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0210-OFD-BPT-01	WP017A AM Burma Road 01	1944.00	0.2100	0	None Detected			0.0009	<4.80	<0.0010
141800728-0001										
0210-OFD-BPT-02	WP017A PM Burma Road 01	1955.70	0.2100	0	None Detected			0.0009	<4.80	<0.0009
141800728-0002										
0210-OFD-BPT-FB 1 141800728-0003	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
0210-OFD-BPT-FB 2 141800728-0004	Field Blank	0.00	0.1310	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 NYS ELAP 11606, NVLAP Lab Code 200056-0



EMSL Order: 141800727 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/11/2018 1:15 PM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/14/2018
Oroville, CA 95965 Collected Date: 02/10/2018

Project: 2018.02.10 Launch Ramp (Oroville EM OP)

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

			Area					Analytical	Asbestos	
		Volume	Analyzed	Non	Asbestos	#Struct	ures	Sensitivity	Conce	ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5μ	(S/cc)	(S/mm²)	(S/cc)
0210-OFD-LRP-01	WP009A AM Launch Ramp Parking	1927.80	0.2100	0	None Detected			0.0010	<4.80	<0.0010
141800727-0001										
0210-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1937.70	0.2100	0	None Detected			0.0009	<4.80	<0.0010
141800727-0002										
0210-OFD-LRP-03	WP009A PM Launch Ramp Parking	1971.00	0.1970	0	None Detected			0.0010	<5.10	<0.0010
141800727-0003	-									
0210-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1971.00	0.1970	0	None Detected			0.0010	<5.10	<0.0010
141800727-0004										
0210-OFD-LRP-FB 1	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
141800727-0005										
0210-OFD-LRP-FB 2	Field Blank 2	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
141800727-0006										

Analyst(s)	
Mark Tate (6)	

onda Mc Hee

Rhonda McGee, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0



EMSL Order: 341802194 **Customer ID:** SMGS78B

Fax:

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH Phone: (661) 699-9375

Safety Management Systems

1001 Brad Freeman Trail Received Date: 2/13/2018 10:25 AM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/14/2018
Oroville, CA 95965 Collected Date: 02/11/2018

Project: Oroville EM OP -2018.02.11 Upper Area (Oroville EM OP)

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

		Volume	Area Analyzed	Non	Asbestos Types	#Structures	Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb		≥0.5µ < 5 ≥5µ	(S/cc)	(S/mm²)	(S/cc)
0211-OFD-PMT-01 341802194-0001	WP246 AM Intake Yard	1937.70	0.2040	1	None Detected		0.0010	<4.90	<0.0010
0211-OFD-PMT-02	WP247 AM Upper Overlook Entry	1930.50	0.2310	0	None Detected		0.0009	<4.30	<0.0009
341802194-0002									
0211-OFD-PMT-03	WP248 AM Upper Overlook	1927.80	0.2040	1	None Detected		0.0010	<4.90	<0.0010
341802194-0003									
0211-OFD-PMT-04 341802194-0004	WP249 AM Canyon Drive	1931.40	0.2040	0	None Detected		0.0010	<4.90	<0.0010
0211-OFD-PMT-05 341802194-0005	WP246 PM Intake Yard	1939.50	0.2040	1	None Detected		0.0010	<4.90	<0.0010
0211-OFD-PMT-06	WP247 PM Upper Overlook Entry	1939.50	0.2040	1	None Detected		0.0010	<4.90	<0.0010
341802194-0006									
0211-OFD-PMT-07	WP248 PM Upper Overlook	1929.60	0.2040	0	None Detected		0.0010	<4.90	<0.0010
341802194-0007									
0211-OFD-PMT-08 341802194-0008	WP249 PM Canyon Drive	1926.90	0.2040	0	None Detected		0.0010	<4.90	<0.0010
0211-OFD-FB1 341802194-0009	Field Blank 1	0.00	0.1360	1	None Detected		N/A	<7.40	N/A
0211-OFD-FB2 341802194-0010	Field Blank 2	0.00	0.1360	0	None Detected		N/A	<7.40	N/A

Analyst(s)	

Gerald lannuzzi (10)

Carlos Rivadenevra Laboratory Director

Carlos Rivadeneyra, Laboratory Director or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from: 02/14/2018 12:06:20



EMSL Order: 341802191 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH **Phone:** (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/13/2018 10:25 AM

Trailer #2 / Safety Mgmt Systems **Analysis Date:** 02/13/2018 Oroville, CA 95965 Collected Date: 02/11/2018

Project: Oroville EM OP-2018.02.11 Burma Rd (Oroville EM OP)

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

		Volume	Area Analyzed	Non	Asbestos	#Structures		Analytical Sensitivity		estos ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0211-OFD-BPT-01	WP017A AM Burma Road 01	1924.20	0.2040	0	Actinolite	0	2	0.0010	9.80	0.0020
341802191-0001										
0211-OFD-BPT-02	WP017A PM Burma Road 01	1943.10	0.2040	6	Actinolite	0	2	0.0010	9.80	0.0019
341802191-0002										
Non-asbestos structures	s reported include a contribution from	non-regulated an	nphiboles.							
0211-OFD-BPT-FB 1	Field Blank 1	0.00	0.1360	0	None Detected			N/A	<7.40	N/A
341802191-0003										
0211-OFD-BPT-FB 2 341802191-0004	Field Blank 2	0.00	0.1360	0	None Detected			N/A	<7.40	N/A

Analyst(s)	
Gerald lannuzzi (4)	

Carlos Rivadeneyra, Laboratory Director

or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Order: 341802185 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/13/2018 10:25 AM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/13/2018
Oroville, CA 95965 Collected Date: 02/11/2018

Project: Oroville EM OP-2018, 0211 Launch Ramp (Oroville EM OP)

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

		Volume	Area Analyzed	Non	Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0211-OFD-LRP-01	WP009A AM Launch Ramp Parking	1939.40	0.2040	1	None Detected			0.0010	<4.90	<0.0010
341802185-0001										
0211-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1918.00	0.2040	3	None Detected			0.0010	<4.90	<0.0010
341802185-0002										
0211-OFD-LRP-03	WP009A PM Launch Ramp Parking	1942.20	0.2040	1	Tremolite	1	0	0.0010	4.90	0.00097
341802185-0003										
0211-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1949.40	0.2040	0	None Detected			0.0010	<4.90	<0.0010
341802185-0004	•									
0211-OFD-LRP-FB 1	Field Blank 1	0.00	0.1360	0	None Detected			N/A	<7.40	N/A
341802185-0005										
0211-OFD-LRP-FB 2	Field Blank 2	0.00	0.1360	0	None Detected			N/A	<7.40	N/A
341802185-0006										

Analyst(s)

Gerald lannuzzi (6)

Carlos Rivadeneyra, Laboratory Director or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from: 02/13/2018 18:31:51



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 **Customer PO:**

Project ID: Oroville EM OP

EMSL Order: 531800023

Customer ID: SMGS78B

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.12 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/14/2018 10:10 AM

Analysis Date: 02/15/2018

Collected Date: 02/12/2018

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

Sample		Volume	Area Analyzed	Non	Asbestos	#Structures	Analytical Sensitivity		estos entration
	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5 ≥5µ	(S/cc)	(S/mm²)	(S/cc)
0212-OFD-PMT-01 531800023-0001	WP246 AM Intake Yard	1920.70	0.2100	0	None Detected		0.0010	<4.80	<0.0010
0212-OFD-PMT-02	WP247 AM Upper Overlook Entry	1927.80	0.2100	0	None Detected		0.0010	<4.80	<0.0010
531800023-0002									
0212-OFD-PMT-03	WP248 AM Upper Overlook	1949.20	0.2100	0	None Detected		0.0009	<4.80	<0.0009
531800023-0003									
0212-OFD-PMT-04 531800023-0004	WP249 AM Canyon Drive	1930.50	0.2100	0	None Detected		0.0010	<4.80	<0.0010
0212-OFD-PMT-05 531800023-0005	WP246 PM Intake Yard	1936.80	0.2100	0	None Detected		0.0009	<4.80	<0.0010
0212-OFD-PMT-06	WP247 PM Upper Overlook Entry	1922.40	0.2100	1	None Detected		0.0010	<4.80	<0.0010
531800023-0006									
0212-OFD-PMT-07	WP248 PM Upper Overlook	1926.60	0.2100	0	None Detected		0.0010	<4.80	<0.0010
531800023-0007									
0212-OFD-PMT-08 531800023-0008	WP249 PM Canyon Drive	1931.40	0.2100	0	None Detected		0.0010	<4.80	<0.0010
0212-OFD-PMT-FB 1 531800023-0009	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
0212-OFD-PMT-FB 2 531800023-0010	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Peter Donato (10)

Peter Donato Asbestos Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory 's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Rochester, NY NVLAP Lab Code 600183-0.

Initial Report From: 02/15/2018 16:29:19



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

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

Safety Management Systems

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

Phone: (661) 699-9375

Project ID: Oroville EM OP

Fax:

Collected Date: 02/12/2018

EMSL Order: 531800021

Customer ID: SMGS78B

Received Date: 2/14/2018 9:51 AM

Analysis Date: 02/14/2018

Customer PO:

Oroville, CA 95965

1001 Brad Freeman Trail

Attention: Dave Beadle, CIH

Project: 2018.02.12 Burma Rd (Oroville EM OP)

Trailer #2 / Safety Mgmt Systems

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

		Volume	Area Analyzed	Non	Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0212-OFD-BPT-01	WP017A AM Burma Road 01	1965.60	0.1970	1	None Detected			0.0010	<5.10	<0.0010
531800021-0001										
0212-OFD-BPT-02	WP017A PM Burma Road 01	1955.70	0.2100	3	None Detected			0.0009	<4.80	<0.0009
531800021-0002										
Non-asbestos structures	s reported includes a contribution from	n non-regulated a	mphiboles.							
0212-OFD-BPT-FB 1	Field Blank	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
531800021-0003										
0212-OFD-BPT-FB 2 531800021-0004	Field Blank	0.00	0.1310	0	None Detected			N/A	<7.60	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 NVLAP Lab Code 600183-0.

Initial Report From: 02/15/2018 16:17:08



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

Phone: (661) 699-9375

Project ID: Oroville EM OP

EMSL Order: 531800022

Customer ID: SMGS78B

Fax:

Received Date: 2/14/2018 10:00 AM

Customer PO:

Analysis Date: 02/14/2018 - 02/15/2018

Collected Date: 02/12/2018

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems Oroville, CA 95965

Project: 2018.02.12 Launch Ramp (Oroville EM OP)

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

		Volume	Area Analyzed	Non	Asbestos	#Struct	ures	Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0212-OFD-LRP-01	WP009A AM Launch Ramp Parking	1940.40	0.2100	2	None Detected			0.0009	<4.80	<0.0010
531800022-0001										
Non-asbestos structures	reported includes a contribution from	non-regulated a	mphiboles.							
0212-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1937.70	0.2100	1	None Detected			0.0009	<4.80	<0.0010
531800022-0002										
Non-asbestos structures	reported includes a contribution from	non-regulated a	mphiboles.							
0212-OFD-LRP-03	WP009A PM Launch Ramp Parking	1938.60	0.2100	1	Actinolite	0	1	0.0009	4.80	0.00095
531800022-0003										
Non-asbestos structures	reported includes a contribution from	non-regulated a	mphiboles.							
0212-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1944.00	0.2100	0	None Detected			0.0009	<4.80	<0.0010
531800022-0004										
0212-OFD-LRP-FB 1	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
531800022-0005										
0212-OFD-LRP-FB 2	Field Blank 2	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
531800022-0006										

Anal	yst(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 NVLAP Lab Code 600183-0.

Initial report from: 02/15/2018 16:23:50



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: 321803740 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.13 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/15/2018 9:35 AM

Analysis Date: 02/16/2018

Collected Date: 02/13/2018

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

		Volume	Area Analyzed	Non	Asbestos	#Structures	Analytical Sensitivity		estos entration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5 ≥5µ	(S/cc)	(S/mm²)	(S/cc)
0213-OFD-PMT-01 321803740-0001	WP246 AM Intake Yard	1931.40	0.2060	0	None Detected		0.0010	<4.80	<0.0010
0213-OFD-PMT-02	WP247 AM Upper Overlook Entry	1928.70	0.2060	2	None Detected		0.0010	<4.80	<0.0010
321803740-0002									
0213-OFD-PMT-03	WP248 AM Upper Overlook	1955.70	0.2060	1	None Detected		0.0010	<4.80	<0.0010
321803740-0003									
0213-OFD-PMT-04 321803740-0004	WP249 AM Canyon Drive	1939.50	0.2060	2	None Detected		0.0010	<4.80	<0.0010
0213-OFD-PMT-05 321803740-0005	WP246 PM Intake Yard	1936.80	0.2060	2	None Detected		0.0010	<4.80	<0.0010
0213-OFD-PMT-06	WP247 PM Upper Overlook Entry	1936.80	0.2060	0	None Detected		0.0010	<4.80	<0.0010
321803740-0006									
0213-OFD-PMT-07	WP248 PM Upper Overlook	1934.10	0.2060	1	None Detected		0.0010	<4.80	<0.0010
321803740-0007									
0213-OFD-PMT-08 321803740-0008	WP249 PM Canyon Drive	1926.90	0.2060	5	None Detected		0.0010	<4.80	<0.0010
0213-OFD-PMT-FB 1 321803740-0009	Field blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
0213-OFD-PMT-FB 2 321803740-0010	Field blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	N/A

Kyeong Corbin (10)

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

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Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial Report From: 02/16/2018 15:21:23



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: 321803737 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.13 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/15/2018 9:35 AM

Analysis Date: 02/16/2018

Collected Date: 02/13/2018

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

		Area Volume Analyze		Non	Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0213-OFD-BPT-01	WP017A AM Burma Road 01	1807.20	0.2190	4	Actinolite	1	0	0.0010	4.60	0.00097
321803737-0001										
Non-asbestos structures	s reported includes a contribution fron	n non-regulated a	mphiboles.							
0213-OFD-BPT-02	WP017A PM Burma Road 01	1937.70	0.2060	8	Actinolite	1	0	0.0010	4.80	0.00096
321803737-0002										
Non-asbestos structures	s reported includes a contribution fron	n non-regulated a	mphiboles.							
0213-OFD-BPT-FB 1	Field blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
321803737-0003										
0213-OFD-BPT-FB 2 321803737-0004	Field blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	N/A

Analyst	(s)
V	O = =======

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 NVLAP Lab Code 200232-0

Initial Report From: 02/16/2018 11:47:52



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: 321803736 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.13 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/15/2018 9:35 AM

Analysis Date: 02/15/2018

Collected Date: 02/13/2018

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

		Volume	Area Analyzed	Non		#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0213-OFD-LRP-01	WP009A AM Launch Ramp Parking	1926.00	0.2060	12	None Detected			0.0010	<4.80	<0.0010
321803736-0001										
Non-asbestos structures	s reported includes a contribution from	non-regulated a	mphiboles.							
0213-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1933.20	0.2060	5	Actinolite	1	0	0.0010	4.80	0.00096
321803736-0002										
Non-asbestos structures	s reported includes a contribution from	non-regulated a	mphiboles.							
0213-OFD-LRP-03	WP009A PM Launch Ramp Parking	1948.50	0.2060	3	None Detected			0.0010	<4.80	<0.0010
321803736-0003										
Non-asbestos structures	s reported includes a contribution from	non-regulated a	mphiboles.							
0213-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1946.70	0.2060	0	None Detected			0.0010	<4.80	<0.0010
321803736-0004										
0213-OFD-LRP-FB 1	Field blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
321803736-0005										
0213-OFD-LRP-FB	Field blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
321803736-0006										

Analyst(s) Feng Liang (5)

Kyeong Corbin (1)

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

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Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial Report From: 02/16/2018 08:29:17



29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978 http://www.EMSL.com / wallingfordlab@emsl.com EMSL Order: 241800952 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.14 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/16/2018 10:00 AM

Analysis Date: 02/20/2018

Collected Date: 02/14/2018

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

			Area					Analytical	Asbestos	
Sample		Volume	Analyzed (mm²)	Non Asb	Asbestos	#Structures		Sensitivity	Conce	ntration
	Location	(Liters)			Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0214-OFD-PMT-01	WP246 AM Intake Yard	1936.80	0.2100	1	None Detected			0.0009	<4.80	<0.0010
241800952-0001										
0214-OFD-PMT-02	WP247 AM Upper Overlook Entry	1944.60	0.2100	3	None Detected			0.0009	<4.80	<0.0010
241800952-0002	· · · · · · · · · · · · · · · · · · ·									
0214-OFD-PMT-03	WP248 AM Upper Overlook	1945.80	0.2100	0	None Detected			0.0009	<4.80	<0.0009
241800952-0003										
0214-OFD-PMT-04 241800952-0004	WP249 AM Canyon Drive	1935.90	0.2100	1	None Detected			0.0009	<4.80	<0.0010
Non-asbestos structures	s reported include a contribution from	non-regulated an	nphiboles.							
0214-OFD-PMT-05	WP246 PM Intake Yard	1939.50	0.2100	0	None Detected			0.0009	<4.80	<0.0010
241800952-0005										
0214-OFD-PMT-06	WP247 PM Upper Overlook Entry	1942.20	0.2100	0	None Detected			0.0009	<4.80	<0.0010
241800952-0006										
0214-OFD-PMT-07	WP248 PM Upper Overlook	1935.00	0.2100	0	None Detected			0.0009	<4.80	<0.0010
241800952-0007										
0214-OFD-PMT-08	WP249 PM Canyon Drive	1937.60	0.2100	0	None Detected			0.0009	<4.80	<0.0010
241800952-0008										
0214-OFD-PMT-FB 1	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
241800952-0009										
0214-OFD-PMT-FB 2 241800952-0010	Field Blank 2	0.00	0.1310	0	None Detected			N/A	<7.60	N/A

Analyst(s)

Almedina Hodzic (10)

Lauren Brennan, Asbestos Lab Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 02/20/2018 14:32:57



29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978 http://www.EMSL.com / wallingfordlab@emsl.com EMSL Order: 241800955 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.14 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/16/2018 10:00 AM

Analysis Date: 02/16/2018

Collected Date: 02/14/2018

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

		Volume	Area Analyzed	Non	Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0214-OFD-BPT-01	WP017A AM Burma Road 01	1956.60	0.2100	1	None Detected			0.0009	<4.80	<0.0009
241800955-0001										
Non-asbestos structures	s reported include a contribution from	non-regulated an	nphiboles.							
0214-OFD-BPT-02	WP017A PM Burma Road 01	1953.00	0.2100	1	Actinolite	2	0	0.0009	9.50	0.0019
241800955-0002										
0214-OFD-BPT-FB 1 241800955-0003	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
0214-OFD-BPT-FB 2 241800955-0004	Field Blank 2	0.00	0.1310	0	None Detected			N/A	<7.60	N/A

Almedina Hodzic (4)

Lauren Brennan, Asbestos Lab Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 02/16/2018 13:36:15



29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978 http://www.EMSL.com / wallingfordlab@emsl.com EMSL Order: 241800953 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.14 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/16/2018 10:00 AM

Analysis Date: 02/19/2018

Collected Date: 02/14/2018

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

		Volume	Area Analyzed (mm²)	Non	n Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)		Asb	Types	≥0.5µ < 5	οο ≥5μ	(S/cc)	(S/mm²)	(S/cc)
0214-OFD-LRP-01	WP009A AM Launch Ramp Parking	1944.00	0.2100	6	None Detected	•	•	0.0009	<4.80	<0.0010
241800953-0001										
Non-asbestos structures	s reported include a contribution fro	m non-regulated am	phiboles.							
0214-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1945.80	0.2100	5	None Detected			0.0009	<4.80	<0.0009
241800953-0002										
Non-asbestos structures	s reported include a contribution fro	m non-regulated am	phiboles.							
0214-OFD-LRP-03	WP009A PM Launch Ramp Parking	1960.20	0.1970	1	None Detected			0.0010	<5.10	<0.0010
241800953-0003										
0214-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1947.60	0.2100	0	None Detected			0.0009	<4.80	<0.0009
241800953-0004										
0214-OFD-LRP-FB	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
241800953-0005										
0214-OFD-LRP-FB 2 241800953-0006	Field Blank 2	0.00	0.1310	0	None Detected			N/A	<7.60	N/A

Almedina Hodzic (6)

Lauren Brennan, Asbestos Lab Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 02/19/2018 12:14:18



EMSL Order: 411801287 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail

Received Date: 2/19/2018 8:30 AM

Trailor #2 / Safety Memt Systems 02/20/2018

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/20/2018
Oroville, CA 95965 Collected Date: 02/15/2018

Project: 2018.02.15 Upper Area (Oroville EM OP)

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

		Volume	Area	Non	Asbestos	#Structures	Analytical Sensitivity		estos ntration
Sample	Location	(Liters)	Analyzed (mm²)	Asb	Types	#3tructures ≥0.5µ < 5 ≥5µ	(S/cc)	(S/mm²)	(S/cc)
0215-OFD-PMT-01 411801287-0001	WP246 AM Intake Yard	1935.90	0.2080	0	None Detected		0.0010	<4.80	<0.0010
0215-OFD-PMT-02	WP247 AM Upper Overlook Entry	1940.40	0.2080	2	None Detected		0.0010	<4.80	<0.0010
411801287-0002 0215-OFD-PMT-03	WP248 AM Upper Overlook	1960.10	0.2080	2	None Detected		0.0009	<4.80	<0.0009
411801287-0003									
0215-OFD-PMT-04 411801287-0004	WP249 AM Canyon Drive	1933.20	0.2080	6	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures	s reported includes a contribution from	n non-regulated a	mphiboles						
0215-OFD-PMT-05 411801287-0005	WP246 PM Intake Yard	1913.50	0.2080	0	None Detected		0.0010	<4.80	<0.0010
0215-OFD-PMT-06 411801287-0006	WP247 PM Upper Overlook Entry	1916.20	0.2080	0	None Detected		0.0010	<4.80	<0.0010
0215-OFD-PMT-07	WP248 PM Upper Overlook	1923.30	0.2080	0	None Detected		0.0010	<4.80	<0.0010
411801287-0007									
0215-OFD-PMT-08 411801287-0008	WP249 PM Canyon Drive	1918.90	0.2080	0	None Detected		0.0010	<4.80	<0.0010
0215-OFD-PMT-FB 1 411801287-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
0215-OFD-PMT-FB 2 411801287-0010	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Anal	lyst(s)

Aaron Hartley (10)

Lee Plumley, Laboratory Manager or other approved signatory

Evan L. Plumber

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial Report From: 02/20/2018 12:56:06



EMSL Order: 411801289 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH **Phone:** (661) 699-9375

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.15 Burma Rd. (Oroville EM OP)

Fax:

Received Date: 2/19/2018 8:30 AM

Analysis Date: 02/19/2018

Collected Date: 02/15/2018

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

		Volume	Area Analyzed	Non	Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0215-OFD-BPT-01	WP017A AM Burma Road 01	1972.80	0.2080	2	None Detected			0.0009	<4.80	<0.0009
411801289-0001										
Non-asbestos structures	s reported includes a contribution fron	n non-regulated a	mphiboles							
0215-OFD-BPT-02	WP017A PM Burma Road 01	1953.00	0.2080	1	None Detected			0.0009	<4.80	<0.0010
411801289-0002										
Non-asbestos structures	s reported includes a contribution fron	n non-regulated a	mphiboles							
0215-OFD-BPT-FB 1 411801289-0003	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
0215-OFD-BPT-FB 2 411801289-0004	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s) Derrick Young (4)

Lee Plumley, Laboratory Manager or other approved signatory

Evan L. Plumber

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312



Attention: Dave Beadle, CIH

EMSL Order: 411801288 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Phone: (661) 699-9375

Fax:

Received Date: 2/19/2018 8:30 AM

Analysis Date: 02/19/2018 **Collected Date**: 02/15/2018

Collected Date:

Project: 2015.02.15 Launch Ramp (Oroville EM OP)

Trailer #2 / Safety Mgmt Systems

Safety Management Systems

1001 Brad Freeman Trail

Oroville, CA 95965

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

						Analytical	Asb	estos		
		Volume	Analyzed	Non	Asbestos	#Struct	ures	Sensitivity	Conce	ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0215-OFD-LRP-01	WP009A AM Launch Ramp Parking	1922.40	0.2080	2	None Detected			0.0010	<4.80	<0.0010
411801288-0001										
0215-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1937.70	0.2080	0	None Detected			0.0010	<4.80	<0.0010
411801288-0002										
0215-OFD-LRP-03	WP009A PM Launch Ramp Parking	1934.10	0.2080	0	None Detected			0.0010	<4.80	<0.0010
411801288-0003										
0215-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1928.70	0.2080	0	None Detected			0.0010	<4.80	<0.0010
411801288-0004										
0215-OFD-LRP-FB 1	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
411801288-0005										
0215-OFD-LRP-FB 2 411801288-0006	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

Evan L. Plumber

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312



EMSL Order: 041805356 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH Phone: (661) 699-9375

Safety Management Systems Fax: 1001 Brad Freeman Trail Received Date:

 1001 Brad Freeman Trail
 Received Date:
 2/18/2018 8:00 AM

 Trailer #2 / Safety Mgmt Systems
 Analysis Date:
 02/19/2018 - 02/20/2018

Oroville, CA 95965 Collected Date: 02/16/2018

Project: 2018.02.16 Upper Area (Oroville EM OP)

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

		Valores	Area	N	A = b = = 4 = =	#04	Analytical		estos
Sample	Location	Volume (Liters)	Analyzed (mm²)	Non Asb	Asbestos Types	#Structures ≥0.5µ < 5 ≥5µ	Sensitivity (S/cc)	(S/mm²)	ntration (S/cc)
0216-OFD-PMT-01 041805356-0001	WP246 AM Intake Yard	1941.30	0.2030	0	None Detected	20.0μ < σ 25μ	0.0010	<4.90	<0.0010
0216-OFD-PMT-02	WP247 MA Upper Overlook Entry	1948.50	0.2030	0	None Detected		0.0010	<4.90	<0.0010
041805356-0002									
0216-OFD-PMT-03	WP248 AM Upper Overlook	1945.80	0.2030	0	None Detected		0.0010	<4.90	<0.0010
041805356-0003									
0216-OFD-PMT-04 041805356-0004	WP249 AM Canyon Drive	1941.30	0.2030	0	None Detected		0.0010	<4.90	<0.0010
0216-OFD-PMT-05 041805356-0005	WP246 PM Intake Yard	1942.20	0.2030	0	None Detected		0.0010	<4.90	<0.0010
0216-OFD-PMT-06	WP247 PM Upper Overlook Entry	1942.40	0.2030	0	None Detected		0.0010	<4.90	<0.0010
041805356-0006									
0216-OFD-PMT-07	WP248 PM Upper Overlook	1947.60	0.2030	0	None Detected		0.0010	<4.90	<0.0010
041805356-0007									
0216-OFD-PMT-08 041805356-0008	WP249 PM Canyon Drive	1935.00	0.2030	0	None Detected		0.0010	<4.90	<0.0010
0216-OFD-PMT-FB 1 041805356-0009	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
0216-OFD-PMT-FB 2 041805356-0010	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	N/A

Analyst(s)

Matthew Dare (10)

Benjamin Ellis, Laboratory Manager or other approved signatory

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Attention: Dave Beadle, CIH

EMSL Order: 041805355 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Phone: (661) 699-9375

Fax:

Received Date: 2/18/2018 8:00 AM

Analysis Date: 02/19/2018 **Collected Date**: 02/16/2018

Project: 2018.02.16 Burma Road (Oroville EM OP)

Trailer #2 / Safety Mgmt Systems

Safety Management Systems

1001 Brad Freeman Trail

Oroville, CA 95965

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

		Volume	Area Analyzed	Non Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration		
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0216-OFD-BPT-01	WP017A AM Burma Road 01	1953.00	0.2030	1	None Detected			0.0010	<4.90	<0.0010
041805355-0001										
Non-asbestos structures	s reported include a contribution from	non-regulated an	nphiboles.							
0216-OFD-BPT-02	WP017A PM Burma Road 01	1962.90	0.2030	0	Actinolite	2	2	0.0010	20.00	0.0039
041805355-0002										
0216-OFD-BPT-FB 1 041805355-0003	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
0216-OFD-BPT-FB 2 041805355-0004	Field Blank 2	0.00	0.0000	0	Filter Damaged					
Sample was not preppe	d because filter was damaged									

Analyst(s)	
Matthew Dare (3)	

Benjamin Ellis, Laboratory Manager or other approved signatory

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Attention: Dave Beadle, CIH

EMSL Order: 041805407 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Phone: (661) 699-9375

Fax:

Received Date: 2/18/2018 8:00 AM

Analysis Date: 02/19/2018

Collected Date: 02/16/2018

Project: 2018.02.16 Launch Ramp (Oroville EM OP)

Trailer #2 / Safety Mgmt Systems

Safety Management Systems

1001 Brad Freeman Trail

Oroville, CA 95965

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

						Analytical	Asbestos			
		Volume	Analyzed	Non	Asbestos	#Structures		Sensitivity	Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0216-OFD-LRP-01	WP009A AM Launch Ramp Parking	1927.80	0.2030	0	None Detected			0.0010	<4.90	<0.0010
041805407-0001										
0216-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1933.20	0.2030	0	None Detected			0.0010	<4.90	<0.0010
041805407-0002										
0216-OFD-LRP-03	WP009A PM Launch Ramp Parking - Damaged in shipping	1947.60	0.0000	0	Filter Damaged					
041805407-0003										
Please note: Filters dan	naged in shipping									
0216-OFD-LRP-04	WP010A PM Launch Ramp Turnaround - Damaged in shipping	1954.80	0.0000	0	Filter Damaged					
041805407-0004										
Please note: Filters dan	naged in shipping									
0216-OFD-LRP-FB 1 041805407-0005	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
0216-OFD-LRP-FB 2 041805407-0006	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A

Analyst(s)	
Matthew Dare (4)	

Benjamin Ellis, Laboratory Manager or other approved signatory

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EMSL Order: 091803665 **Customer ID:** SMGS78B

Fax:

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Phone: (661) 699-9375

Safety Management Systems

1001 Brad Freeman Trail Received Date: 2/18/2018 12:45 PM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/21/2018
Oroville, CA 95965 Collected Date: 02/17/2018

Project: 2018.02.17 UPPER AREA (Oroville EM OP)

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

		Volume	Area Analyzed	Non	Asbestos	#Structures	Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5 ≥5µ	(S/cc)	(S/mm²)	(S/cc)
0217-OFD-PMT-01 091803665-0001	WP246 AM INTAKE YARD	1923.30	0.2110	0	None Detected		0.0010	<4.70	<0.0010
0217-OFD-PMT-02	WP247 AM UPPER OVERLOOK ENTRY	1937.70	0.2110	0	None Detected		0.0009	<4.70	<0.0009
091803665-0002									
0217-OFD-PMT-03	WP248 AM UPPER OVERLOOK	1930.50	0.2110	0	None Detected		0.0009	<4.70	<0.0010
091803665-0003									
0217-OFD-PMT-04	WP249 AM CANYON DRIVE	1926.00	0.2110	0	None Detected		0.0009	<4.70	<0.0010
091803665-0004									
0217-OFD-PMT-05	WP246 PM INTAKE YARD	1931.40	0.2110	0	None Detected		0.0009	<4.70	<0.0010
091803665-0005									
0217-OFD-PMT-06	WP247 PM UPPER OVERLOOK ENTRY	1946.70	0.1980	0	None Detected		0.0010	<5.00	<0.0010
091803665-0006									
0217-OFD-PMT-07	WP248 PM UPPER OVERLOOK	1944.00	0.1980	0	None Detected		0.0010	<5.00	<0.0010
091803665-0007									
0217-OFD-PMT-08	WP249 PM CANYON DRIVE	1939.50	0.2110	0	None Detected		0.0009	<4.70	<0.0009
091803665-0008									
0217-OFD-PMT-FB	FIELD BLANK 1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
091803665-0009									
0217-OFD-PMT-FB 2 091803665-0010	FIELD BLANK 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A

Analy	st(s)

Matthew Batongbacal (10)

Matthew Batongbacal or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884



EMSL Order: 091803658 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/18/2018 12:05 PM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/20/2018
Oroville, CA 95965 Collected Date: 02/17/2018

Project: 2018.02.17 BURMA RD (Oroville EM OP)

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

		Volume	Area Analyzed	Non	Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0217-OFD-BPT-01	WP017A AM BURMA ROAD 01	1960.10	0.1980	0	None Detected			0.0010	<5.00	<0.0010
091803658-0001										
0217-OFD-BPT-02	WP017A PM BURMA ROAD 01	1945.80	0.1980	0	None Detected			0.0010	<5.00	<0.0010
091803658-0002										
0217-OFD-BPT-FB 1 091803658-0003	FIELD BLANK 1	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
	FIELD DI ANIK O	0.00	0.4040		Nama Datastad			NI/A	-0.10	N1/A
0217-OFD-BPT-FB 2 091803658-0004	FIELD BLANK 2	0.00	0.1240	0	None Detected			N/A	<8.10	N/A

Analyst(s)	
Matthew Batongbacal (4)	

Matthew Batongbacal or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884



EMSL Order: 091803656 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/18/2018 12:45 PM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/20/2018
Oroville, CA 95965 Collected Date: 02/17/2018

Project: 2018.02.17 LAUNCH RAMP (Oroville EM OP)

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

			Area				Analytical	Asbestos		
	Volume Analyzed Non Asbestos #Struct		ures	Sensitivity	Conce	ntration				
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0217-OFD-LRP-01	WP009A AM LAUNCH RAMP PARKING	1915.30	0.2110	0	None Detected			0.0010	<4.70	<0.0010
091803656-0001										
0217-OFD-LRP-02	WP010A AM LAUNCH RAMP TURNAROUND	1932.20	0.2110	0	None Detected			0.0009	<4.70	<0.0010
091803656-0002										
0217-OFD-LRP-03	WP009A PM LAUNCH RAMP PARKING	1944.90	0.1980	0	None Detected			0.0010	<5.00	<0.0010
091803656-0003										
0217-OFD-LRP-04	WP010A PM LAUNCH RAMP TURNAROUND	1953.90	0.1980	0	None Detected			0.0010	<5.00	<0.0010
091803656-0004										
0217-OFD-LRP-FB 1	FIELD BLANK 1	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
091803656-0005										
0217-OFD-LRP-FB 2	FIELD BLANK 2	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
091803656-0006										

Analyst(s)	
Matthew Batongbacal (6)	

Matthew Batongbacal or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884



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: 321804138 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.18 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/20/2018 9:25 AM

Analysis Date: 02/21/2018

Collected Date: 02/18/2018

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

Sample		Volume	Area Analyzed	Non	Asbestos	#Structures	Analytical Sensitivity		estos entration
	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5 ≥5µ	(S/cc)	(S/mm²)	(S/cc)
0218-OFD-PMT-01	WP246 AM Intake Yard	1989.90	0.1940	1	None Detected		0.0010	<5.20	<0.0010
321804138-0001									
Non-asbestos structures	s reported includes a contribution from	n non-regulated a	mphiboles.						
0218-OFD-PMT-02	WP247 AM Upper Overlook Entry	1989.90	0.1940	1	None Detected		0.0010	<5.20	<0.0010
321804138-0002									
0218-OFD-PMT-03	WP248 AM Upper Overlook	1992.60	0.1940	1	None Detected		0.0010	<5.20	<0.0010
321804138-0003									
0218-OFD-PMT-04	WP249 AM Canyon Drive	1926.00	0.2060	0	None Detected		0.0010	<4.80	<0.0010
321804138-0004									
0218-OFD-PMT-05	WP246 PM Intake Yard	1901.80	0.2060	1	None Detected		0.0010	<4.80	<0.0010
321804138-0005									
0218-OFD-PMT-06	WP247 PM Upper Overlook Entry	1884.00	0.2060	0	None Detected		0.0010	<4.80	<0.0010
321804138-0006									
0218-OFD-PMT-07	WP248 PM Upper Overlook	1891.10	0.2060	0	None Detected		0.0010	<4.80	<0.0010
321804138-0007									
0218-OFD-PMT-08 321804138-0008	WP249 PM Canyon Drive	1940.30	0.2060	0	None Detected		0.0010	<4.80	<0.0010
0218-OFD-PMT-FB	Field blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
321804138-0009									
0218-OFD-PMT-FB 2 321804138-0010	Field blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	N/A

Anal	yst(s)

Kyeong Corbin (10)

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

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Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial Report From: 02/21/2018 14:57:46



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: 321804136 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.18 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/20/2018 9:25 AM

Analysis Date: 02/20/2018

Collected Date: 02/18/2018

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

		Area Volume Analyzed Non As		Asbestos #Structures		ures	Analytical Sensitivity	Asbestos Concentration		
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0218-OFD-BPT-01	WP017A AM Burma Road 01	1960.10	0.2060	5	None Detected			0.0010	<4.80	<0.0010
321804136-0001										
0218-OFD-BPT-02	WP017A PM Burma Road 01	1941.30	0.2060	2	None Detected			0.0010	<4.80	<0.0010
321804136-0002										
Non-asbestos structures	s reported includes a contribution from	non-regulated a	mphiboles.							
0218-OFD-BPT-FB 1	Field blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
321804136-0003										
0218-OFD-BPT-FB 2 321804136-0004	Field blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	N/A

Analyst(s)

Kyeong Corbin (4)

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

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Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial Report From: 02/20/2018 14:42:06



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: 321804133 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.18 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/20/2018 9:25 AM

Analysis Date: 02/20/2018 - 02/21/2018

Collected Date: 02/18/2018

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

		Volume	Area Analyzed	Non	Asbestos	#Structures		Analytical Sensitivity		estos ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	#otruct ≥0.5µ < 5	u.ο3 ≥5μ	(S/cc)	(S/mm²)	(S/cc)
0218-OFD-LRP-01	WP009A AM Launch Ramp Parking	1991.80	0.1940	14	None Detected	•		0.0010	<5.20	<0.0010
321804133-0001										
Non-asbestos structures	s reported includes a contribution from	non-regulated a	mphiboles.							
0218-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1979.80	0.2060	2	None Detected			0.0009	<4.80	<0.0009
321804133-0002										
Non-asbestos structures	s reported includes a contribution from	non-regulated a	mphiboles.							
0218-OFD-LRP-03	WP009A PM Launch Ramp Parking	1921.40	0.2060	1	None Detected			0.0010	<4.80	<0.0010
321804133-0003										
Non-asbestos structures	s reported includes a contribution from	non-regulated a	mphiboles.							
0218-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1914.30	0.2060	0	None Detected			0.0010	<4.80	<0.0010
321804133-0004										
0218-OFD-LRP-FB 1	Field blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
321804133-0005										
0218-OFD-LRP-FB 2 321804133-0006	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 NVLAP Lab Code 200232-0

Initial Report From: 02/21/2018 11:36:28



EMSL Order: 161803031 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH **Phone:** (661) 699-9375

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: Oroville EM OP - 2018.0219 Upper Area (Oroville EM OP)

Fax:

Received Date: 2/21/2018 10:15 AM

Analysis Date: 02/22/2018 Collected Date: 02/19/2018

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

		Area Volume Analyzed Non		Asbestos	#Structures	Analytical Sensitivity	Asbestos Concentration		
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5 ≥5µ	(S/cc)	(S/mm²)	(S/cc)
0219-OFD-PMT-01	WP246 AM Intake Yard	1904.50	0.2100	0	None Detected		0.0010	<4.80	<0.0010
161803031-0001									
0219-OFD-PMT-02	WP247 AM Upper Overlook Entry	1920.70	0.2100	0	None Detected		0.0010	<4.80	<0.0010
161803031-0002									
0219-OFD-PMT-03	WP248 AM Upper Overlook	1934.90	0.2100	0	None Detected		0.0009	<4.80	<0.0010
161803031-0003									
0219-OFD-PMT-04 161803031-0004	WP249 AM Canyon Drive	1913.50	0.2100	0	None Detected		0.0010	<4.80	<0.0010
0219-OFD-PMT-05	WP246 PM Intake Yard	1955.60	0.2100	0	None Detected		0.0009	<4.80	<0.0009
161803031-0005									
0219-OFD-PMT-06	WP247 PM Upper Overlook Entry	1950.30	0.2100	0	None Detected		0.0009	<4.80	<0.0009
161803031-0006									
0219-OFD-PMT-07	WP248 PM Upper Overlook	1946.70	0.2100	1	None Detected		0.0009	<4.80	<0.0009
161803031-0007									
0219-OFD-PMT-08	WP249 PM Canyon Drive	1942.20	0.2100	0	None Detected		0.0009	<4.80	<0.0010
161803031-0008									
0219-OFD-PMT-FB 1	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
161803031-0009									
0219-OFD-PMT-FB 2 161803031-0010	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

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 NVLAP Lab Code 200188-0, CO AL-15132, TX 300262



EMSL Order: 161803025 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/21/2018 10:15 AM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/23/2018
Oroville, CA 95965 Collected Date: 02/19/2018

Project: Oroville EM OP / 2018.02.19 Burma Rd. (Oroville EM OP)

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

	Area Volume Analyzed Non Asbestos #Struc		#Struct	ures	Analytical Sensitivity		estos ntration			
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0219-OFD-BPT-01	WP017A AM Burma Road 01	1930.50	0.2100	0	None Detected			0.0010	<4.80	<0.0010
161803025-0001										
0219-OFD-BPT-02	WP017A PM Burma Road 01	1940.40	0.2100	2	None Detected			0.0009	<4.80	<0.0010
161803025-0002										
Non-asbestos structures	s reported include a contribution from i	non-regulated an	nphiboles							
0219-OFD-BPT-FB 1 161803025-0003	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
0219-OFD-BPT-FB 2 161803025-0004	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 NVLAP Lab Code 200188-0, CO AL-15132, TX 300262



EMSL Order: 161803029 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/21/2018 10:15 AM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/23/2018
Oroville, CA 95965 Collected Date: 02/19/2018

Project: Oroville EM OP - 2018.02.19 Launch Ramp (Oroville EM OP)

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

		Area Volume Analyzed Non Asbestos		Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration		
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0219-OFD-LRP-01	WP009A AM Launch Ramp Parking	1889.40	0.2100	0	None Detected			0.0010	<4.80	<0.0010
161803029-0001										
0219-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1901.80	0.2100	1	None Detected			0.0010	<4.80	<0.0010
161803029-0002										
0219-OFD-LRP-03	WP009A PM Launch Ramp Parking	2001.90	0.1970	0	None Detected			0.0010	<5.10	<0.0010
161803029-0003										
0219-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1986.40	0.1970	0	None Detected			0.0010	<5.10	<0.0010
161803029-0004	•									
0219-OFD-LRP-FB 1	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
161803029-0005										
0219-OFD-LRP-FB 2 161803029-0006	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 NVLAP Lab Code 200188-0, CO AL-15132, TX 300262



EMSL Order: 341802664 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/22/2018 11:30 AM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/26/2018
Oroville, CA 95965 Collected Date: 02/20/2018

Project: Oroville EM OP -2018.02.20 Upper Area (Oroville EM OP)

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

Sample		Volume	Area Analyzed (mm²)	Non Asb	Asbestos Types	#Structures ≥0.5µ < 5 ≥5µ	Analytical Sensitivity (S/cc)		estos ntration
	Location	(Liters)						(S/mm²)	(S/cc)
0220-OFD-PMT-01 341802664-0001	WP246 AM Intake Yard	1909.90	0.2040	0	None Detected		0.0010	<4.90	<0.0010
0220-OFD-PMT-02	WP247 AM Upper Overlook Entry	1914.30	0.2040	0	None Detected		0.0010	<4.90	<0.0010
341802664-0002									
0220-OFD-PMT-03	WP248 AM Upper Overlook	1924.10	0.2040	1	None Detected		0.0010	<4.90	<0.0010
341802664-0003									
Non-asbestos structures	s reported include a contribution from	non-regulated an	nphiboles.						
0220-OFD-PMT-04 341802664-0004	WP249 AM Canyon Drive	1930.50	0.2040	2	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures	s reported include a contribution from	non-regulated an	nphiboles.						
0220-OFD-PMT-05 341802664-0005	WP246 PM Intake Yard	1976.40	0.2040	0	None Detected		0.0010	<4.90	<0.0010
0220-OFD-PMT-06	WP247 PM Upper Overlook Entry	1961.00	0.2040	0	None Detected		0.0010	<4.90	<0.0010
341802664-0006									
0220-OFD-PMT-07	WP248 PM Upper Overlook	1970.20	0.2040	0	None Detected		0.0010	<4.90	<0.0010
341802664-0007									
0220-OFD-PMT-08 341802664-0008	WP249 PM Canyon Drive	1926.90	0.2040	0	None Detected		0.0010	<4.90	<0.0010
0220-OFD-PMT-FB 1	Field Blank 1	0.00	0.1360	0	None Detected		N/A	<7.40	N/A
341802664-0009									
0220-OFD-PMT-FB 2 341802664-0010	Field Blank 2	0.00	0.1360	0	None Detected		N/A	<7.40	N/A

Ana	lyst(s)	

Gerald lannuzzi (10)

Carlos Rivadeneyra, Laboratory Director or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from: 02/26/2018 16:37:18



EMSL Order: 341802662 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/22/2018 11:30 AM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/26/2018
Oroville, CA 95965 Collected Date: 02/20/2018

Project: Oroville EM OP -2018.02.20 Burma Rd (Oroville EM OP)

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

		Volume	Area Analyzed	Non	on Asbestos	#Structures		Analytical Sensitivity	Asbestos Concentration	
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0220-OFD-BPT-01	WP017A AM Burma Road 01	1967.50	0.2040	1	None Detected			0.0010	<4.90	<0.0010
341802662-0001										
Non-asbestos structures	s reported include a contribution from	non-regulated an	nphiboles.							
0220-OFD-BPT-02	WP017A PM Burma Road 01	1922.40	0.2040	6	Actinolite	1	1	0.0010	9.80	0.0020
341802662-0002										
Non-asbestos structures	s reported include a contribution from	non-regulated an	nphiboles.							
0220-OFD-BPT-FB 1	Field Blank 1	0.00	0.1360	0	None Detected			N/A	<7.40	N/A
341802662-0003										
0220-OFD-BPT-FB 2 341802662-0004	Field Blank 2	0.00	0.1360	0	None Detected			N/A	<7.40	N/A

Analyst(s)	
Gerald lannuzzi (4)	

Carlos Rivadenevra Laboratory Director

Carlos Rivadeneyra, Laboratory Director or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Order: 341802663 **Customer ID:** SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Phone: (661) 699-9375

Safety Management Systems Fax:

1001 Brad Freeman Trail Received Date: 2/22/2018 11:30 AM

Trailer #2 / Safety Mgmt Systems Analysis Date: 02/26/2018
Oroville, CA 95965 Collected Date: 02/20/2018

Project: Oroville EM OP - 2018.02.20 Launch Ramp (Oroville EM OP)

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

		Volume	Area Analyzed	Non	n Asbestos	#Structures		Analytical Sensitivity		estos ntration
Sample	Location		(mm²)	Asb	Types	#otructi ≥0.5μ < 5	25µ	(S/cc)	(S/mm²)	(S/cc)
0220-OFD-LRP-01	WP009A AM Launch Ramp Parking	1924.10	0.2040	3	None Detected		- •	0.0010	<4.90	<0.0010
341802663-0001										
Non-asbestos structures	s reported include a contribution from r	on-regulated an	nphiboles.							
0220-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1919.70	0.2040	1	None Detected			0.0010	<4.90	<0.0010
341802663-0002										
Non-asbestos structures	s reported include a contribution from r	ion-regulated an	nphiboles.							
0220-OFD-LRP-03	WP009A PM Launch Ramp Parking	1991.00	0.2040	1	None Detected			0.0009	<4.90	<0.0010
341802663-0003										
Non-asbestos structures	s reported include a contribution from r	ion-regulated an	nphiboles.							
0220-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1975.60	0.2040	1	None Detected			0.0010	<4.90	<0.0010
341802663-0004										
0220-OFD-LRP-FB 1	Field Blank 1	0.00	0.1360	0	None Detected			N/A	<7.40	N/A
341802663-0005										
0220-OFD-LRP-FB 2	Field Blank 2	0.00	0.1360	0	None Detected			N/A	<7.40	N/A
341802663-0006										

Analyst(s)	

Gerald lannuzzi (6)

Carlos Rivadenevra Laboratory Director

Carlos Rivadeneyra, Laboratory Director or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from: 02/26/2018 20:03:17



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: 531800031 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.21 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/23/2018 10:39 AM

Analysis Date: 02/26/2018

Collected Date: 02/21/2018

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

		Volume	Area Analyzed	Non		#Structures	Analytical Sensitivity		estos ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5 ≥5µ	(S/cc)	(S/mm²)	(S/cc)
0221-OFD-PMT-01	WP246 AM Intake Yard	1934.10	0.2100	0	None Detected		0.0010	<4.80	<0.0010
531800031-0001									
0221-OFD-PMT-02	WP247 AM Upper Overlook Entry	1939.50	0.2100	0	None Detected		0.0009	<4.80	<0.0010
531800031-0002									
0221-OFD-PMT-03	WP248 AM Upper Overlook	1956.60	0.2100	0	None Detected		0.0009	<4.80	<0.0009
531800031-0003									
0221-OFD-PMT-04 531800031-0004	WP249 AM Canyon Drive	1952.10	0.2100	0	None Detected		0.0009	<4.80	<0.0009
0221-OFD-PMT-05 531800031-0005	WP246 PM Intake Yard	1945.80	0.2100	0	None Detected		0.0009	<4.80	<0.0009
0221-OFD-PMT-06 531800031-0006	WP247 PM Upper Overlook Entry	1935.90	0.2100	1	None Detected		0.0009	<4.80	<0.0010
0221-OFD-PMT-07 531800031-0007	WP248 PM Upper Overlook	1950.20	0.2100	0	None Detected		0.0009	<4.80	<0.0009
0221-OFD-PMT-08 531800031-0008	WP249 PM Canyon Drive	1934.10	0.2100	0	None Detected		0.0010	<4.80	<0.0010
0221-OFD-PMT-FB 1 531800031-0009	Field Blank 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
0221-OFD-PMT-FB 2 531800031-0010	Field Blank 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A

Peter Donato (10)

Peter Donato Asbestos Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Rochester, NY NVLAP Lab Code 600183-0.

Initial Report From: 02/26/2018 17:08:31



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 **Customer PO:**

Project ID: Oroville EM OP

EMSL Order: 531800029

Customer ID: SMGS78B

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.21 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/23/2018 10:23 AM

Analysis Date: 02/23/2018

Collected Date: 02/21/2018

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

		Volume	Area Analyzed	Non		#Structures		Analytical Sensitivity		estos ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0221-OFD-BPT-01	WP017A AM Burma Road 01	1949.40	0.2100	0	None Detected			0.0009	<4.80	<0.0009
531800029-0001										
0221-OFD-BPT-02	WP017A PM Burma Road 01	1941.30	0.2100	0	None Detected			0.0009	<4.80	<0.0010
531800029-0002										
0221-OFD-BPT-FB 1 531800029-0003	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
0221-OFD-BPT-FB 2 531800029-0004	Field Blank 2	0.00	0.1310	0	None Detected			N/A	<7.60	N/A

Anal	lyst(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 NVLAP Lab Code 600183-0.

Initial Report From: 02/23/2018 16:54:05



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 **Customer PO:**

Project ID: Oroville EM OP

EMSL Order: 531800030

Customer ID: SMGS78B

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.21 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/23/2018 10:32 AM

Analysis Date: 02/23/2018 - 02/26/2018

Collected Date: 02/21/2018

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

		Volume	Area Analyzed	Non	n Asbestos	#Structi	ures	Analytical Sensitivity		estos ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0221-OFD-LRP-01	WP009A AM Launch Ramp Parking	1961.80	0.1970	0	None Detected			0.0010	<5.10	<0.0010
531800030-0001	-									
0221-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1947.50	0.2100	0	None Detected			0.0009	<4.80	<0.0009
531800030-0002										
0221-OFD-LRP-03	WP009A PM Launch Ramp Parking	1947.50	0.2100	0	None Detected			0.0009	<4.80	<0.0009
531800030-0003	· -									
0221-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1943.10	0.2100	0	None Detected			0.0009	<4.80	<0.0010
531800030-0004										
0221-OFD-LRP-FB 1	Field Blank 1	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
531800030-0005										
0221-OFD-LRP-FB 2	Field Blank 2	0.00	0.1310	0	None Detected			N/A	<7.60	N/A
531800030-0006										

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 NVLAP Lab Code 600183-0.

Initial Report From: 02/26/2018 17:04:31



EMSL Order: 241801085 **Customer ID:** SMGS78B

Fax:

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Phone: (661) 699-9375

Safety Management Systems

1001 Brad Freeman Trail

Received Date: 2/24/2018 9:25 AM

Trailer #2 / Safety Mgmt Systems

Analysis Date: 02/26/2018

Oroville, CA 95965 Collected Date: 02/22/2018

Project: 2018.02.22 UPPER AREA (Oroville EM OP)

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

		Volume	Area Analyzed (mm²)	Non Asb	Asbestos Types	#Structure	Analytica Sensitivi		bestos entration
Sample	Location	(Liters)					5µ (S/cc)	(S/mm²)	(S/cc)
0222-OFD-PMT-01	WP246 AM INTAKE YARD	1931.20	0.2080	0	None Detected		0.0010		<0.0010
241801085-0001									
0222-OFD-PMT-02	WP247 AM UPPER OVERLOOK ENTRY	1921.40	0.2080	2	None Detected		0.0010	<4.80	<0.0010
241801085-0002									
Non-asbestos structures	reported include a contribution from	non-regulated ar	nphiboles.						
0222-OFD-PMT-03	WP248 AM UPPER OVERLOOK	1913.30	0.2080	0	None Detected		0.0010	<4.80	<0.0010
241801085-0003									
0222-OFD-PMT-04	WP249 AM CANYON DRIVE	1916.00	0.2080	1	None Detected		0.0010	<4.80	<0.0010
241801085-0004									
Non-asbestos structures	s reported include a contribution from	non-regulated ar	nphiboles.						
0222-OFD-PMT-05	WP246 PM INTAKE YARD	1962.90	0.2080	0	None Detected		0.0009	<4.80	<0.0009
241801085-0005									
0222-OFD-PMT-06	WP247 PM UPPER OVERLOOK ENTRY	1983.10	0.1950	1	None Detected		0.0010	<5.10	<0.0010
241801085-0006									
0222-OFD-PMT-07	WP248 PM UPPER OVERLOOK	1984.50	0.1950	0	None Detected		0.0010	<5.10	<0.0010
241801085-0007									
0222-OFD-PMT-08	WP249 PM CANYON DRIVE	1967.10	0.2080	0	None Detected		0.0009	<4.80	<0.0009
241801085-0008									
0222-OFD-PMT-FB	FIELD BLANK 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
241801085-0009									
0222-OFD-PMT-FB 2	FIELD BLANK 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
241801085-0010									

Initial report from: 02/26/2018 15:12:53



29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978 http://www.EMSL.com / wallingfordlab@emsl.com EMSL Order: 241801085 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.22 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/24/2018 9:25 AM

Analysis Date: 02/26/2018

Collected Date: 02/22/2018

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

			Area					Analytical	Asbe	estos
		Volume	Analyzed	Non	Asbestos	#Structu	ıres	Sensitivity	Concer	ntration
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)

Analyst(s)

Almedina Hodzic (10)

Lauren Brennan, Asbestos Lab Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 02/26/2018 15:12:53



29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978 http://www.EMSL.com / wallingfordlab@emsl.com EMSL Order: 241801096 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.22 BURMA RD (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/24/2018 9:25 AM

Analysis Date: 02/26/2018

Collected Date: 02/22/2018

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

		Area Volume Analyzed Non Asbestos #Structure		ures	Analytical Sensitivity	Asbestos Concentration				
Sample	Location	(Liters)	(mm²)	Asb	Types	≥0.5µ < 5	≥5µ	(S/cc)	(S/mm²)	(S/cc)
0222-OFD-BPT-01	WP017A AM BURMA ROAD 01	1925.10	0.2080	0	None Detected			0.0010	<4.80	<0.0010
241801096-0001										
0222-OFD-BPT-02	WP017A PM BURMA ROAD 01	1962.00	0.2080	0	None Detected			0.0009	<4.80	<0.0009
241801096-0002										
Filter wet upon arrival, o	dried at lab.									
0222-OFD-BPT-FB 1 241801096-0003	FIELD BLANK 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
0222-OFD-BPT-FB 2 241801096-0004	FIELD BLANK 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Analyst(s) Almedina Hodzic (4)

Lauren Brennan, Asbestos Lab Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 02/26/2018 17:30:02



29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978 http://www.EMSL.com / wallingfordlab@emsl.com EMSL Order: 241801084 Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems 1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2018.02.22 LAUNCH RAMP (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 2/24/2018 9:25 AM

Analysis Date: 02/26/2018

Collected Date: 02/22/2018

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

		Valores	Area Analyzed (mm²)	Non Asb	Asbestos Types	#04		Analytical Sensitivity (S/cc)		estos
Sample	Location	Volume (Liters)				#Structu ≥0.5µ < 5	ures ≥5µ		(S/mm²)	ntration (S/cc)
0222-OFD-LRP-01	WP009A AM LAUNCH RAMP PARKING	1967.30	0.2080	0	None Detected	•	•	0.0009	<4.80	<0.0009
241801084-0001										
0222-OFD-LRP-02	WP010A AM LAUNCH RAMP TURNAROUND	1950.20	0.2080	3	None Detected			0.0009	<4.80	<0.0010
241801084-0002										
Non-asbestos structures	s reported include a contribution from	m non-regulated an	nphiboles.							
0222-OFD-LRP-03	WP009A PM LAUNCH RAMP PARKING	1978.30	0.1950	0	None Detected			0.0010	<5.10	<0.0010
241801084-0003										
0222-OFD-LRP-04	WP010A PM LAUNCH RAMP TURNAROUND	1948.50	0.2080	0	None Detected			0.0010	<4.80	<0.0010
241801084-0004										
0222-OFD-LRP-FB 1	FIELD BLANK 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
241801084-0005										
0222-OFD-LRP-FB 2 241801084-0006	FIELD BLANK 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A

Almedina Hodzic (6)

Lauren Brennan, Asbestos Lab Manager

or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 02/26/2018 10:48:37