

Appendix A – Laboratory Reports



EMSL Analytical, Inc.

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

EMSL Order: 041735918

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: 2017.12.15 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 12/17/2017 11:30 AM
Analysis Date: 12/19/2017
Collected Date: 12/15/2017

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	≥5μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
1215-OFD-PMT-01 041735918-0001	WP246 AM Intake Yard	1906.70	0.2080	1	Actinolite	1	0	0.0010	4.80	0.00097
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-PMT-02 041735918-0002	WP247 AM Upper Overlook Entry	1890.00	0.2080	1	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-PMT-03 041735918-0003	WP248 AM Upper Overlook	1906.70	0.2080	0	None Detected			0.0010	<4.80	<0.0010
1215-OFD-PMT-04 041735918-0004	WP249 AM Canyon Drive	1883.00	0.2080	3	None Detected			0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-PMT-05 041735918-0005	WP246 PM Intake Yard	2117.00	0.2080	2	None Detected			0.0009	<4.80	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-PMT-06 041735918-0006	WP247 PM Upper Overlook Entry	2119.70	0.1820	0	None Detected			0.0010	<5.50	<0.0010
1215-OFD-PMT-07 041735918-0007	WP248 PM Upper Overlook	1934.90	0.2080	0	None Detected			0.0010	<4.80	<0.0010
1215-OFD-PMT-08 041735918-0008	WP249 PM Canyon Drive	2119.70	0.1820	1	None Detected			0.0010	<5.50	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-PMT-FB 1 041735918-0009	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
1215-OFD-PMT-FB 2 041735918-0010	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A



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EMSL Order: 041735918

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: 2017.12.15 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/17/2017 11:30 AM

Analysis Date: 12/19/2017

Collected Date: 12/15/2017

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)

William Nguyen (10)

Benjamin Ellis, Laboratory Manager
or other approved signatory

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

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

Initial Report From: 12/20/2017 14:39:44



EMSL Analytical, Inc.

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

EMSL Order: 041735919

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: 2017.12.15 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/17/2017 11:30 AM

Analysis Date: 12/19/2017

Collected Date: 12/15/2017

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)
1215-OFD-TPT-01	WP278 AM N. Diversion Dam	1926.80	0.2080	1	None Detected		0.0010	<4.80	<0.0010
041735919-0001 Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1215-OFD-TPT-02	WP019A AM E. Diversion Dam	1907.80	0.2080	2	None Detected		0.0010	<4.80	<0.0010
041735919-0002 Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1215-OFD-TPT-03	WP020A AM SE Canal	1924.10	0.2080	0	None Detected		0.0010	<4.80	<0.0010
041735919-0003									
1215-OFD-TPT-04	WP021A AM SW Canal	1921.40	0.2080	0	None Detected		0.0010	<4.80	<0.0010
041735919-0004									
1215-OFD-TPT-05	WP281 AM Cherokee Road	1937.70	0.2080	1	None Detected		0.0010	<4.80	<0.0010
041735919-0005 Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1215-OFD-TPT-06	WP278 PM N. Diversion Dam	1941.10	0.2080	0	None Detected		0.0010	<4.80	<0.0010
041735919-0006									
1215-OFD-TPT-07	WP019A PM E. Diversion Dam	1948.40	0.2080	0	None Detected		0.0010	<4.80	<0.0010
041735919-0007									
1215-OFD-TPT-08	WP020A PM SE Canal	1937.60	0.2080	0	None Detected		0.0010	<4.80	<0.0010
041735919-0008									
1215-OFD-TPT-09	WP021A PM SW Canal	1940.30	0.2080	1	None Detected		0.0010	<4.80	<0.0010
041735919-0009 Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1215-OFD-TPT-10	WP281 PM Cherokee Road	1934.10	0.2080	0	None Detected		0.0010	<4.80	<0.0010
041735919-0010									
1215-OFD-TPT-FB 1	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
041735919-0011									
1215-OFD-TPT-FB 2	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
041735919-0012									



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EMSL Order: 041735919

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: 2017.12.15 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/17/2017 11:30 AM

Analysis Date: 12/19/2017

Collected Date: 12/15/2017

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)

William Nguyen (12)

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: 12/20/2017 14:41:20



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

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

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

EMSL Order: 041735921

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: 2017.12.15 Burma Road (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/17/2017 11:30 AM

Analysis Date: 12/19/2017 - 12/20/2017

Collected Date: 12/15/2017

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)
1215-OFD-BPT-01	WP017A AM Burma Road 01	1935.90	0.2080	1	None Detected			0.0010	<4.80	<0.0010
041735921-0001										
1215-OFD-BPT-02	WP036A AM Burma Road 02	1941.30	0.2080	0	None Detected			0.0010	<4.80	<0.0010
041735921-0002										
1215-OFD-BPT-03	WP037A AM Burma Road 03	1949.40	0.2080	2	Actinolite	0	1	0.0010	4.80	0.00095
041735921-0003										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-BPT-04	WP017A PM Burma Road 01	1953.90	0.2080	3	None Detected			0.0009	<4.80	<0.0010
041735921-0004										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-BPT-05	WP036A PM Burma Road 02	1943.10	0.2080	2	None Detected			0.0010	<4.80	<0.0010
041735921-0005										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-BPT-06	WP037A PM Burma Road 03	1926.00	0.2080	0	None Detected			0.0010	<4.80	<0.0010
041735921-0006										
1215-OFD-BPT-FB 1	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
041735921-0007										
1215-OFD-BPT-FB 2	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
041735921-0008										

Analyst(s)

William Nguyen (8)

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: 12/20/2017 14:38:04



EMSL Analytical, Inc.

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

EMSL Order: 041735920

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: 2017.12.15 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 12/17/2017 11:30 AM
Analysis Date: 12/20/2017
Collected Date: 12/15/2017

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)
1215-OFD-LRP-01	WP009A AM Launch Ramp Parking	1884.60	0.2080	0	Actinolite	2	0	0.0010	9.60	0.0020
041735920-0001										
1215-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1891.60	0.2080	0	Actinolite	3	0	0.0010	14.00	0.0029
041735920-0002										
1215-OFD-LRP-03	WP009A PM Launch Ramp Parking	2132.80	0.1820	1	None Detected			0.0010	<5.50	<0.0010
041735920-0003										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	2130.30	0.1820	2	None Detected			0.0010	<5.50	<0.0010
041735920-0004										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1215-OFD-LRP-FB 1	Field Blank 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
041735920-0005										
1215-OFD-LRP-FB 2	Field Blank 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A
041735920-0006										

Analyst(s)

William Nguyen (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: 12/20/2017 14:45:56



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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

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

EMSL Order: 341713258

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: 2017.12.16 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/19/2017 11:15 AM

Analysis Date: 12/19/2017

Collected Date: 12/16/2017

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)
1216-OFD-PMT-01 341713258-0001	WP246 AM Intake Yard	1914.90	0.2140	0	None Detected		0.0009	<4.70	<0.0009
1216-OFD-PMT-02 341713258-0002	WP247 AM Upper Overlook Entry	1892.70	0.2140	1	None Detected		0.0009	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1216-OFD-PMT-03 341713258-0003	WP248 AM Upper Overlook	1894.30	0.2140	3	None Detected		0.0009	<4.70	<0.0010
1216-OFD-PMT-04 341713258-0004	WP249 AM Canyon Drive	1879.20	0.2140	0	None Detected		0.0010	<4.70	<0.0010
1216-OFD-PMT-05 341713258-0005	WP246 PM Intake Yard	1858.80	0.2140	0	None Detected		0.0010	<4.70	<0.0010
1216-OFD-PMT-06 341713258-0006	WP247 PM Upper Overlook Entry	1861.50	0.2140	1	None Detected		0.0010	<4.70	<0.0010
1216-OFD-PMT-07 341713258-0007	WP248 PM Upper Overlook	1866.90	0.2140	2	Actinolite	1 0	0.0010	4.70	0.00096
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1216-OFD-PMT-08 341713258-0008	WP249 PM Canyon Drive	1863.00	0.2140	1	None Detected		0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1216-OFD-PMT-FB 1 341713258-0009	Field Blank 1	0.00	0.1340	0	None Detected		N/A	<7.50	N/A
1216-OFD-PMT-FB 2 341713258-0010	Field Blank 2	0.00	0.1340	0	None Detected		N/A	<7.50	N/A



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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

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

EMSL Order: 341713258

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: 2017.12.16 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/19/2017 11:15 AM

Analysis Date: 12/19/2017

Collected Date: 12/16/2017

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)

Gerald Iannuzzi (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: 12/19/2017 17:49:14



EMSL Analytical, Inc.

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: 241705385

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: 2017.12.16 DIVERSION DAM (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/17/2017 4:15 PM

Analysis Date: 12/21/2017 - 12/22/2017

Collected Date: 12/16/2017

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)
1216-OFD-TPT-01	WP278 AM N. DIVERSION DAM	1937.70	0.2100	0	None Detected		0.0009	<4.80	<0.0010
241705385-0001									
1216-OFD-TPT-02	WP019A AM E. DIVERSION DAM	1927.80	0.2100	0	None Detected		0.0010	<4.80	<0.0010
241705385-0002									
1216-OFD-TPT-03	WP020A AM SE CANAL	1941.30	0.2100	1	None Detected		0.0009	<4.80	<0.0010
241705385-0003									
1216-OFD-TPT-04	WP021A AM SW CANAL	1938.60	0.2100	1	None Detected		0.0009	<4.80	<0.0010
241705385-0004									
1216-OFD-TPT-05	WP281 AM CHEROKEE RD.	1967.30	0.1970	0	None Detected		0.0010	<5.10	<0.0010
241705385-0005									
1216-OFD-TPT-06	WP278 PM N. DIVERSION DAM	1926.90	0.2100	1	None Detected		0.0010	<4.80	<0.0010
241705385-0006									
1216-OFD-TPT-07	WP019A PM E. DIVERSION DAM	1939.50	0.2100	0	None Detected		0.0009	<4.80	<0.0010
241705385-0007									
1216-OFD-TPT-08	WP020A PM SE CANAL	1928.70	0.2080	1	None Detected		0.0010	<4.80	<0.0010
241705385-0008									
1216-OFD-TPT-09	WP021A PM SW CANAL	1941.30	0.2100	3	None Detected		0.0009	<4.80	<0.0010
241705385-0009									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1216-OFD-TPT-10	WP281 PM CHEROKEE RD.	1936.80	0.2100	1	None Detected		0.0009	<4.80	<0.0010
241705385-0010									
1216-OFD-TPT-FB 1	FIELD BLANK 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
241705385-0011									
1216-OFD-TPT-FB 2	FIELD BLANK 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
241705385-0012									



EMSL Analytical, Inc.

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: 241705385

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: 2017.12.16 DIVERSION DAM (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/17/2017 4:15 PM

Analysis Date: 12/21/2017 - 12/22/2017

Collected Date: 12/16/2017

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)

Almedina Hodzic (12)

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: 12/22/2017 17:19:27



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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

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

EMSL Order: 341713259

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: 2017.12.16 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/19/2017 11:15 AM

Analysis Date: 12/19/2017 - 12/20/2017

Collected Date: 12/16/2017

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)
1216-OFD-BPT-01	WP017A AM Burma Road 01	1941.30	0.2010	0	None Detected			0.0010	<5.00	<0.0010
341713259-0001										
1216-OFD-BPT-02	WP036A AM Burma Road 02	1963.80	0.2010	0	None Detected			0.0010	<5.00	<0.0010
341713259-0002										
1216-OFD-BPT-03	WP037A AM Burma Road 03	1971.10	0.2010	1	Tremolite	0	1	0.0010	5.00	0.00097
341713259-0003										
1216-OFD-BPT-04	WP017A PM Burma Road 01	1940.40	0.2010	1	Actinolite	1	1	0.0010	10.00	0.0020
341713259-0004										
1216-OFD-BPT-05	WP036A PM Burma Road 02	1930.50	0.2010	0	None Detected			0.0010	<5.00	<0.0010
341713259-0005										
1216-OFD-BPT-06	WP037A PM Burma Road 03	1954.70	0.2010	3	None Detected			0.0010	<5.00	<0.0010
341713259-0006										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1216-OFD-BPT-FB 1	Field Blank 1	0.00	0.1340	0	None Detected			N/A	<7.50	N/A
341713259-0007										
1216-OFD-BPT-FB 2	Field Blank 2	0.00	0.1340	0	None Detected			N/A	<7.50	N/A
341713259-0008										

Analyst(s)

Gerald Iannuzzi (8)

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: 12/20/2017 11:03:01



EMSL Analytical, Inc.

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: 241705384

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: 2017.12.16 LAUNCH RAMP (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/17/2017 4:15 PM

Analysis Date: 12/20/2017 - 12/21/2017

Collected Date: 12/16/2017

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)
1216-OFD-LRP-01	WP009A AM LAUNCH RAMP PARKING	1906.70	0.2100	0	None Detected		0.0010	<4.80	<0.0010
241705384-0001									
1216-OFD-LRP-02	WP010A AM LAUNCH RAMP TURNAROUND	1906.70	0.2100	0	None Detected		0.0010	<4.80	<0.0010
241705384-0002									
1216-OFD-LRP-03	WP009A PM LAUNCH RAMP PARKING	1881.90	0.2100	0	None Detected		0.0010	<4.80	<0.0010
241705384-0003									
1216-OFD-LRP-04	WP010A PM LAUNCH RAMP TURNAROUND	1866.90	0.2100	1	Actinolite	1 1	0.0010	9.50	0.0020
241705384-0004									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1216-OFD-LRP-FB 1	FIELD BLANK 1	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
241705384-0005									
1216-OFD-LRP-FB 2	FIELD BLANK 2	0.00	0.1310	0	None Detected		N/A	<7.60	N/A
241705384-0006									

Analyst(s)

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: 12/21/2017 10:11:04



EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854

Tel/Fax: (732) 981-0550 / (732) 981-0551

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

EMSL Order: 051705674

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: 2017.12.17 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/19/2017 9:40 AM

Analysis Date: 12/26/2017 - 12/27/2017

Collected Date: 12/17/2017

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)
1217-OFD-PMT-01 051705674-0001	WP246 AM Intake Yard	1912.20	0.2110	1	Actinolite	0 1	0.0010	4.70	0.00096
1217-OFD-PMT-02 051705674-0002	WP247 AM Upper Overlook Entry	1905.10	0.2110	1	None Detected		0.0010	<4.70	<0.0010
1217-OFD-PMT-03 051705674-0003	WP248 AM Upper Overlook	1902.40	0.2110	0	None Detected		0.0010	<4.70	<0.0010
1217-OFD-PMT-04 051705674-0004	WP249 AM Canyon Drive	1900.80	0.2110	1	None Detected		0.0010	<4.70	<0.0010
1217-OFD-PMT-05 051705674-0005	WP246 PM Intake Yard	1981.80	0.1980	4	None Detected		0.0010	<5.00	<0.0010
1217-OFD-PMT-06 051705674-0006	WP247 PM Upper Overlook Entry	1968.30	0.1980	5	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1217-OFD-PMT-07 051705674-0007	WP248 PM Upper Overlook	1971.00	0.1980	0	None Detected		0.0010	<5.00	<0.0010
1217-OFD-PMT-08 051705674-0008	WP249 PM Canyon Drive	1958.30	0.1980	7	Actinolite	1 1	0.0010	10.00	0.0020
Non-asbestos structures reported above include a contribution from non-regulated amphiboles.									
1217-OFD-PMT-FB 1 051705674-0009	Field Blank 1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
1217-OFD-PMT-FB 2 051705674-0010	Field Blank 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A

Analyst(s)

Nicholas Maslowski (3)

Susan Pollack (7)

Chaikut Sae Lao, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 12/27/2017 12:12:56



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

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

EMSL Order: 151708740

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: 2017.12.17 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/19/2017 10:20 AM

Analysis Date: 12/21/2017 - 12/22/2017

Collected Date: 12/17/2017

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)
1217-OFD-TPT-01	WP278 AM N. Diversion Dam	1955.70	0.1980	1	None Detected		0.0010	<5.00	<0.0010
151708740-0001									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1217-OFD-TPT-02	WP019A AM E. Diversion Dam	1934.10	0.2110	2	None Detected		0.0009	<4.70	<0.0009
151708740-0002									
1217-OFD-TPT-03	WP020A AM SE Canal	1945.80	0.1980	0	None Detected		0.0010	<5.00	<0.0010
151708740-0003									
1217-OFD-TPT-04	WP021A AM SW Canal	1943.10	0.1980	2	None Detected		0.0010	<5.00	<0.0010
151708740-0004									
1217-OFD-TPT-05	WP281 AM Cherokee Rd.	1947.50	0.1980	1	None Detected		0.0010	<5.00	<0.0010
151708740-0005									
1217-OFD-TPT-06	WP278 PM N. Diversion Dam	1922.40	0.2110	4	None Detected		0.0010	<4.70	<0.0010
151708740-0006									
1217-OFD-TPT-07	WP019A PM E. Diversion Dam	1934.10	0.2110	2	None Detected		0.0009	<4.70	<0.0009
151708740-0007									
1217-OFD-TPT-08	WP020A PM SE Canal	1928.70	0.2110	1	None Detected		0.0009	<4.70	<0.0010
151708740-0008									
1217-OFD-TPT-09	WP021A PM SW Canal	1938.60	0.2110	2	None Detected		0.0009	<4.70	<0.0009
151708740-0009									
1217-OFD-TPT-10	WP281 PM Cherokee Rd.	1934.10	0.2110	2	None Detected		0.0009	<4.70	<0.0009
151708740-0010									
1217-OFD-TPT-FB 1	Field Blank 1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
151708740-0011									
1217-OFD-TPT-FB 2	Field Blank 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
151708740-0012									



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

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

EMSL Order: 151708740

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: 2017.12.17 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/19/2017 10:20 AM

Analysis Date: 12/21/2017 - 12/22/2017

Collected Date: 12/17/2017

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)

Michelle Leggett (12)

Michelle Leggett, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Houston, TX NVLAP Lab Code 102106-0, AZ 0925, CO AL-15355, LA 04126, TX 300159

Initial report from: 12/22/2017 14:25:35



EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854

Tel/Fax: (732) 981-0550 / (732) 981-0551

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

EMSL Order: 051705673

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: 2017.12.17 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/19/2017 9:40 AM

Analysis Date: 12/26/2017

Collected Date: 12/17/2017

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)
1217-OFD-BPT-01	WP017A AM Burma Road 01	1967.50	0.1980	0	None Detected		0.0010	<5.00	<0.0010
051705673-0001									
1217-OFD-BPT-02	WP036A AM Burma Road 02	1967.50	0.1980	1	None Detected		0.0010	<5.00	<0.0010
051705673-0002									
Non-asbestos structures reported above include a contribution from non-regulated amphiboles.									
1217-OFD-BPT-03	WP037A AM Burma Road 03	1969.30	0.1980	0	None Detected		0.0010	<5.00	<0.0010
051705673-0003									
1217-OFD-BPT-04	WP017A PM Burma Road 01	1918.00	0.2110	5	None Detected		0.0010	<4.70	<0.0010
051705673-0004									
Non-asbestos structures reported above include a contribution from non-regulated amphiboles.									
1217-OFD-BPT-05	WP036A PM Burma Road 02	1934.90	0.2110	10	None Detected		0.0009	<4.70	<0.0009
051705673-0005									
Non-asbestos structures reported above include a contribution from non-regulated amphiboles.									
1217-OFD-BPT-06	WP037A PM Burma Road 03	1930.50	0.2110	15	None Detected		0.0009	<4.70	<0.0010
051705673-0006									
Non-asbestos structures reported above include a contribution from non-regulated amphiboles.									
1217-OFD-BPT-FB 1	Field Blank 1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
051705673-0007									
1217-OFD-BPT-FB 2	Field Blank 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
051705673-0008									

Analyst(s)

Susan Pollack (8)

Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 12/26/2017 15:32:07



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

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

EMSL Order: 151708738

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: 2017.12.17 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/19/2017 10:20 AM

Analysis Date: 12/20/2017

Collected Date: 12/17/2017

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)
1217-OFD-LRP-01	WP009A AM Launch Ramp Parking	1905.10	0.2110	2	None Detected		0.0010	<4.70	<0.0010
151708738-0001									
1217-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1899.70	0.2110	2	None Detected		0.0010	<4.70	<0.0010
151708738-0002									
1217-OFD-LRP-03	WP009A PM Launch Ramp Parking	1971.80	0.1980	2	None Detected		0.0010	<5.00	<0.0010
151708738-0003									
1217-OFD-LRP-04	WP109A PM Launch Ramp Turnaround	1977.20	0.1980	1	None Detected		0.0010	<5.00	<0.0010
151708738-0004									
1217-OFD-LRP-FB 1	Field Blank 1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
151708738-0005									
1217-OFD-LRP-FB 2	Field Blank 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
151708738-0006									

Analyst(s)

Michelle Leggett (6)

Michelle Leggett, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Houston, TX NVLAP Lab Code 102106-0, AZ 0925, CO AL-15355, LA 04126, TX 300159

Initial report from: 12/20/2017 17:36:23



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: 141706473
 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: 2017.12.18 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 12/20/2017 11:29 AM
Analysis Date: 12/21/2017
Collected Date: 12/18/2017

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)
1218-OFD-PMT-01 141706473-0001	WP246 AM Intake Yard	1913.30	0.2130	0	None Detected		0.0009	<4.70	<0.0010
1218-OFD-PMT-02 141706473-0002	WP247 AM Uper Overlook Entry	1932.20	0.2000	0	None Detected		0.0010	<5.00	<0.0010
1218-OFD-PMT-03 141706473-0003	WP248 AM Upper Overlook	1939.40	0.2000	0	None Detected		0.0010	<5.00	<0.0010
1218-OFD-PMT-04 141706473-0004	WP249 AM Canyon Drive	1933.20	0.2000	1	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
1218-OFD-PMT-05 141706473-0005	WP246 PM Injtake Yard	1933.20	0.2000	0	None Detected		0.0010	<5.00	<0.0010
1218-OFD-PMT-06 141706473-0006	WP247 PM Upper Overlook Entry	1935.90	0.2000	0	None Detected		0.0010	<5.00	<0.0010
1218-OFD-PMT-07 141706473-0007	WP248 PM Upper Overlook	1933.20	0.2000	0	None Detected		0.0010	<5.00	<0.0010
1218-OFD-PMT-08 141706473-0008	WP249 PM Canyon Drive	1928.70	0.2130	0	None Detected		0.0009	<4.70	<0.0009
1218-OFD-PMT-FB 1 141706473-0009	Field Blank 1	0.00	0.1330	0	None Detected		N/A	<7.50	N/A
1218-OFD-PMT-FB 2 141706473-0010	Field Blank 2	0.00	0.1330	0	None Detected		N/A	<7.50	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

Initial report from: 12/21/2017 15:23:33



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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

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

EMSL Order: 341713329

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: 2017.12.18 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/20/2017 11:10 AM

Analysis Date: 12/21/2017 - 12/22/2017

Collected Date: 12/18/2017

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)
1218-OFD-TPT-01	WP278 AM N. Diversion Dam	1958.40	0.2010	8	Actinolite	1	0	0.0010	5.00	0.00098
341713329-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1218-OFD-TPT-02	WP019A AM E. Diversion Dam	1957.40	0.2010	11	None Detected			0.0010	<5.00	<0.0010
341713329-0002										
1218-OFD-TPT-03	WP020A AM SE Canal	1944.00	0.2010	5	None Detected			0.0010	<5.00	<0.0010
341713329-0003										
1218-OFD-TPT-04	WP021A AM SW Canal	1948.50	0.2010	2	None Detected			0.0010	<5.00	<0.0010
341713329-0004										
1218-OFD-TPT-05	WP281 AM Cherokee Rd.	1955.70	0.2010	0	None Detected			0.0010	<5.00	<0.0010
341713329-0005										
1218-OFD-TPT-06	WP278 PM N. Diversion Dam	1929.60	0.2010	4	Actinolite	2	0	0.0010	10.00	0.0020
341713329-0006										
1218-OFD-TPT-07	WP019A PM E. Diversion Dam	1952.10	0.2010	2	None Detected			0.0010	<5.00	<0.0010
341713329-0007										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1218-OFD-TPT-08	WP020A PM SE Canal	1946.70	0.2010	1	None Detected			0.0010	<5.00	<0.0010
341713329-0008										
1218-OFD-TPT-09	WP021A PM SW Canal	1944.00	0.2010	1	None Detected			0.0010	<5.00	<0.0010
341713329-0009										
1218-OFD-TPT-10	WP281 PM Cherokee Rd.	1945.80	0.2010	3	None Detected			0.0010	<5.00	<0.0010
341713329-0010										
1218-OFD-TPT-FB 1	Field Blank 1	0.00	0.1340	0	None Detected			N/A	<7.50	N/A
341713329-0011										
1218-OFD-TPT-FB 2	Field Blank 2	0.00	0.1340	0	None Detected			N/A	<7.50	N/A
341713329-0012										



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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

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

EMSL Order: 341713329

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: 2017.12.18 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/20/2017 11:10 AM

Analysis Date: 12/21/2017 - 12/22/2017

Collected Date: 12/18/2017

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)

Gerald Iannuzzi (12)

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: 12/22/2017 09:21:52



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: 141706472

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: 2017.12.18 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/20/2017 11:29 AM

Analysis Date: 12/21/2017

Collected Date: 12/18/2017

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)
1218-OFD-BPT-01	WP017A AM Burma Road 01	1976.40	0.2000	0	None Detected		0.0010	<5.00	<0.0010
141706472-0001									
1218-OFD-BPT-02	WP036A AM Burma Road 02	1983.70	0.2000	0	None Detected		0.0010	<5.00	<0.0010
141706472-0002									
1218-OFD-BPT-03	WP037A AM Burma Road 03	2011.20	0.2000	0	None Detected		0.0010	<5.00	<0.0010
141706472-0003									
1218-OFD-BPT-04	WP017A PM Burma Road 01	1916.00	0.2130	0	Actinolite	0 1	0.0009	4.70	0.00094
141706472-0004									
1218-OFD-BPT-05	WP036A PM Burma Road 02	1910.50	0.2130	0	None Detected		0.0009	<4.70	<0.0010
141706472-0005									
1218-OFD-BPT-06	WP037A PM Burma Road 03	1903.50	0.2130	0	None Detected		0.0010	<4.70	<0.0010
141706472-0006									
1218-OFD-BPT-FB 1	Field Blank 1	0.00	0.1330	0	None Detected		N/A	<7.50	N/A
141706472-0007									
1218-OFD-BPT-FB 2	Field Blank 2	0.00	0.1330	0	None Detected		N/A	<7.50	N/A
141706472-0008									

Analyst(s)

Mark Tate (8)

Rhonda McGee

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

Initial report from: 12/21/2017 10:50:56



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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

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

EMSL Order: 341713327

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: 2017.12.18 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/20/2017 11:10 AM

Analysis Date: 12/20/2017

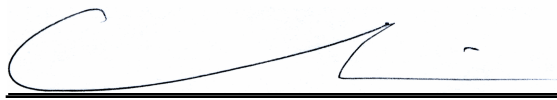
Collected Date: 12/18/2017

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)
1218-OFD-LRP-01	WP009A AM Launch Ramp Parking	1914.90	0.2140	4	Actinolite	1	2	0.0009	14.00	0.0028
341713327-0001										
1218-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1914.90	0.2140	5	Actinolite	0	1	0.0009	4.70	0.00094
341713327-0002										
1218-OFD-LRP-03	WP009A PM Launch Ramp Parking	1946.70	0.2010	1	None Detected			0.0010	<5.00	<0.0010
341713327-0003										
1218-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1931.40	0.2140	1	None Detected			0.0009	<4.70	<0.0009
341713327-0004										
1218-OFD-LRP-FB 1	Field Blank 1	0.00	0.1340	0	None Detected			N/A	<7.50	N/A
341713327-0005										
1218-OFD-LRP-FB 2	Field Blank 2	0.00	0.1340	0	None Detected			N/A	<7.50	N/A
341713327-0006										

Analyst(s)

Gerald Iannuzzi (6)



Carlos Rivadeneyra, Laboratory Director
or other approved signatory

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

Initial report from: 12/20/2017 18:38:44



EMSL Analytical, Inc.

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: 241705417

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: 2017.12.19 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/21/2017 12:20 PM

Analysis Date: 12/27/2017

Collected Date: 12/19/2017

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)
1219-OFD-PMT-01 241705417-0001	WP246 AM INTAKE YARD	1944.00	0.2080	2	None Detected		0.0010	<4.80	<0.0010
1219-OFD-PMT-02 241705417-0002	WP247 AM UPPER OVERLOOK ENTRY	1946.70	0.2080	3	None Detected		0.0010	<4.80	<0.0010
1219-OFD-PMT-03 241705417-0003	WP248 AM UPPER OVERLOOK	1949.40	0.2080	2	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1219-OFD-PMT-04 241705417-0004	WP249 AM CANYON DRIVE	1579.00	0.2470	2	None Detected		0.0010	<4.00	<0.0010
1219-OFD-PMT-05 241705417-0005	WP246 PM INTAKE YARD	1996.50	0.1950	1	None Detected		0.0010	<5.10	<0.0010
Filter wet upon arrival, dried at lab.									
1219-OFD-PMT-06 241705417-0006	WP247 PM UPPER OVERLOOK ENTRY	1981.00	0.1950	1	None Detected		0.0010	<5.10	<0.0010
Filter wet upon arrival, dried at lab.									
1219-OFD-PMT-07 241705417-0007	WP248 PM UPPER OVERLOOK	1988.30	0.1950	0	None Detected		0.0010	<5.10	<0.0010
Filter wet upon arrival, dried at lab.									
1219-OFD-PMT-08 241705417-0008	WP249 PM CANYON DRIVE	1952.10	0.2080	2	None Detected		0.0009	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1219-OFD-PMT-FB 1 241705417-0009	FIELD BLANK 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
1219-OFD-PMT-FB 2 241705417-0010	FIELD BLANK 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A



EMSL Analytical, Inc.

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: 241705417

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: 2017.12.19 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/21/2017 12:20 PM

Analysis Date: 12/27/2017

Collected Date: 12/19/2017

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)

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: 12/27/2017 15:45:56



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: 411709805

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: 2017.12.19 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/21/2017 2:40 PM

Analysis Date: 12/22/2017

Collected Date: 12/19/2017

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)
1219-OFD-TPT-01	WP278 AM N. Diversion Dam	1943.10	0.2080	0	None Detected		0.0010	<4.80	<0.0010
411709805-0001									
1219-OFD-TPT-02	WP019A AM E. Diversion Dam	1930.50	0.2080	0	None Detected		0.0010	<4.80	<0.0010
411709805-0002									
1219-OFD-TPT-03	WP020A AM SE Canal	1945.80	0.2080	0	None Detected		0.0010	<4.80	<0.0010
411709805-0003									
1219-OFD-TPT-04	WP021A AM SW Canal	1938.60	0.2080	0	None Detected		0.0010	<4.80	<0.0010
411709805-0004									
1219-OFD-TPT-05	WP281 AM Cherokee Rd.	1944.00	0.2080	0	None Detected		0.0010	<4.80	<0.0010
411709805-0005									
1219-OFD-TPT-06	WP278 PM N. Diversion Dam	1949.40	0.2080	0	None Detected		0.0010	<4.80	<0.0010
411709805-0006									
1219-OFD-TPT-07	WP019A PM E. Diversion Dam	1956.60	0.2080	0	None Detected		0.0009	<4.80	<0.0010
411709805-0007									
1219-OFD-TPT-08	WP020A PM SE Canal	1948.50	0.2080	1	None Detected		0.0010	<4.80	<0.0010
411709805-0008									
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
1219-OFD-TPT-09	WP021A PM SW Canal	1953.90	0.2080	0	None Detected		0.0009	<4.80	<0.0010
411709805-0009									
1219-OFD-TPT-10	WP281 PM Cherokee Rd.	1958.40	0.2080	0	None Detected		0.0009	<4.80	<0.0010
411709805-0010									
1219-OFD-TPT-FB 1	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
411709805-0011									
1219-OFD-TPT-FB 2	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
411709805-0012									



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: 411709805

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: 2017.12.19 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/21/2017 2:40 PM

Analysis Date: 12/22/2017

Collected Date: 12/19/2017

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)

Derrick Young (12)

Lee Plumley, Laboratory Manager
or other approved signatory

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

Initial Report From: 12/26/2017 11:52:57



EMSL Analytical, Inc.

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: 241705416

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: 2017.12.19 BURMA RD (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/21/2017 12:20 PM

Analysis Date: 12/26/2017

Collected Date: 12/19/2017

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)	
1219-OFD-BPT-01	WP017A AM BURMA ROAD 01	1954.80	0.2080	3	None Detected			0.0009	<4.80	<0.0010	
241705416-0001											
Non-asbestos structures reported include a contribution from non-regulated amphiboles.											
1219-OFD-BPT-02	WP036A AM BURMA ROAD 02	1950.30	0.2080	7	None Detected			0.0009	<4.80	<0.0010	
241705416-0002											
Non-asbestos structures reported include a contribution from non-regulated amphiboles.											
1219-OFD-BPT-03	WP037A AM BURMA ROAD 03	1949.40	0.2080	5	None Detected			0.0010	<4.80	<0.0010	
241705416-0003											
Non-asbestos structures reported include a contribution from non-regulated amphiboles.											
1219-OFD-BPT-04	WP017A PM BURMA ROAD 01	1948.50	0.2080	1	None Detected			0.0010	<4.80	<0.0010	
241705416-0004											
Filter damp upon arrival, dried at lab.											
1219-OFD-BPT-05	WP036A PM BURMA ROAD 02	1938.60	0.2080	1	None Detected			0.0010	<4.80	<0.0010	
241705416-0005											
Filter damp upon arrival, dried at lab.											
1219-OFD-BPT-06	WP037A PM BURMA ROAD 03	1945.80	0.2080	2	Actinolite	0	1	0.0010	4.80	0.00095	
					Tremolite	4	1		24.00	0.0048	
241705416-0006											
Filter damp upon arrival, dried at lab.											
									Total for all types.....	28.80	0.0058
1219-OFD-BPT-FB 1	FIELD BLANK 1	0.00	0.1300	0	None Detected			N/A	<7.70	N/A	
241705416-0007											
1219-OFD-BPT-FB 2	FIELD BLANK 2	0.00	0.1300	0	None Detected			N/A	<7.70	N/A	
241705416-0008											



EMSL Analytical, Inc.

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: 241705416

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: 2017.12.19 BURMA RD (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/21/2017 12:20 PM

Analysis Date: 12/26/2017

Collected Date: 12/19/2017

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)

Almedina Hodzic (8)

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: 12/26/2017 17:04:34



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: 411709806

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: 2017.12.19 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/21/2017 2:40 PM

Analysis Date: 12/22/2017

Collected Date: 12/19/2017

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)
1219-OFD-LRP-01	WP009A AM Launch Ramp Parking	1933.20	0.2080	2	None Detected		0.0010	<4.80	<0.0010
411709806-0001									
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
1219-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1936.80	0.2080	0	None Detected		0.0010	<4.80	<0.0010
411709806-0002									
1219-OFD-LRP-03	WP009A PM Launch Ramp Parking	2001.90	0.2080	6	None Detected		0.0009	<4.80	<0.0009
411709806-0003									
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
1219-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1984.50	0.1950	0	None Detected		0.0010	<5.10	<0.0010
411709806-0004									
1219-OFD-LRP-FB 1	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
411709806-0005									
1219-OFD-LRP-FB 2	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
411709806-0006									

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 NVLAP Lab Code 200841-0, VA 3333 00312

Initial Report From: 12/26/2017 11:57:37



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: 311700840

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: 2017.12.20 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/22/2017 11:15 AM

Analysis Date: 12/28/2017

Collected Date: 12/20/2017

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)
1220-OFD-PMT-01 311700840-0001	WP246 AM Intake Yard	1898.10	0.2080	0	None Detected		0.0010	<4.80	<0.0010
1220-OFD-PMT-02 311700840-0002	WP247 AM Upper Overlook Entry	1916.00	0.2080	0	None Detected		0.0010	<4.80	<0.0010
1220-OFD-PMT-03 311700840-0003	WP248 AM Upper Overlook	1930.10	0.2080	0	None Detected		0.0010	<4.80	<0.0010
1220-OFD-PMT-04 311700840-0004	WP249 AM Canyon Drive	1918.00	0.2080	5	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1220-OFD-PMT-05 311700840-0005	WP246 PM Intake Yard	1953.90	0.2080	0	None Detected		0.0009	<4.80	<0.0010
1220-OFD-PMT-06 311700840-0006	WP247 PM Upper Overlook Entry	1946.70	0.2080	0	None Detected		0.0010	<4.80	<0.0010
1220-OFD-PMT-07 311700840-0007	WP248 PM Upper Overlook	1944.00	0.2080	0	None Detected		0.0010	<4.80	<0.0010
1220-OFD-PMT-08 311700840-0008	WP249 PM Canyon Drive	1942.20	0.2080	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1220-OFD-PMT-FB 1 311700840-0009	Field Blank 1	0.00	0.1300	0	None Detected		N/A	<7.70	N/A
1220-OFD-PMT-FB 2 311700840-0010	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

Almedina Hodzic (10)

Shannon Ferguson, Laboratory 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: 12/28/2017 16:26:14



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

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

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

EMSL Order: 041736426

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: 2017.12.20 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/22/2017 10:55 AM

Analysis Date: 12/26/2017

Collected Date: 12/20/2017

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)
1220-OFD-TPT-01	WP278 AM N. Diversion Dam	1961.10	0.2060	1	None Detected		0.0010	<4.80	<0.0010
041736426-0001									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1220-OFD-TPT-02	WP019A AM E. Diversion Dam	1951.20	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736426-0002									
1220-OFD-TPT-03	WP020A AM SE Canal	1944.00	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736426-0003									
1220-OFD-TPT-04	WP021A AM SW Canal	1941.30	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736426-0004									
1220-OFD-TPT-05	WP281 AM Cherokee Rd.	1953.00	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736426-0005									
1220-OFD-TPT-06	WP278 PM N. Diversion Dam	1917.10	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736426-0006									
1220-OFD-TPT-07	WP019A PM E. Diversion Dam	1931.40	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736426-0007									
1220-OFD-TPT-08	WP020A PM SE Canal	1935.90	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736426-0008									
1220-OFD-TPT-09	WP021A PM SW Canal	1935.90	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736426-0009									
1220-OFD-TPT-10	WP281 PM Cherokee Rd.	1930.50	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736426-0010									
1220-OFD-TPT-FB 1	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736426-0011									
1220-OFD-TPT-FB 2	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736426-0012									



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

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

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

EMSL Order: 041736426

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: 2017.12.20 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/22/2017 10:55 AM

Analysis Date: 12/26/2017

Collected Date: 12/20/2017

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)

Matthew Dare (12)

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: 12/27/2017 08:05:34



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: 311700839

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: 2017.12.20 Burma Road (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/22/2017 11:15 AM

Analysis Date: 12/28/2017

Collected Date: 12/20/2017

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)
1220-OFD-BPT-01	WP017A AM Burma Road 01	1941.30	0.2030	0	None Detected		0.0010	<4.90	<0.0010
311700839-0001									
1220-OFD-BPT-02	WP036A AM Burma Road 02	1945.80	0.2030	0	None Detected		0.0010	<4.90	<0.0010
311700839-0002									
1220-OFD-BPT-03	WP037A AM Burma Road 03	1951.20	0.2030	0	None Detected		0.0010	<4.90	<0.0010
311700839-0003									
1220-OFD-BPT-04	WP017A PM Burma Road 01	1925.10	0.2030	0	None Detected		0.0010	<4.90	<0.0010
311700839-0004									
1220-OFD-BPT-05	WP036A PM Burma Road 02	1923.30	0.2030	0	None Detected		0.0010	<4.90	<0.0010
311700839-0005									
1220-OFD-BPT-06	WP037A PM Burma Road 03	1937.70	0.2030	0	None Detected		0.0010	<4.90	<0.0010
311700839-0006									
1220-OFD-BPT-FB 1	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
311700839-0007									
1220-OFD-BPT-FB 2	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
311700839-0008									

Analyst(s)

William Bradford (8)

Shannon Ferguson, Laboratory Manager
or other approved signatory

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

Initial Report From: 12/28/2017 13:26:45



EMSL Analytical, Inc.

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

EMSL Order: 041736425
 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: 2017.12.20 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 12/22/2017 10:55 AM
Analysis Date: 12/24/2017 - 12/26/2017
Collected Date: 12/20/2017

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)
1220-OFD-LRP-01	WP009A AM Launch Ramp Parking	1898.60	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736425-0001									
1220-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1904.00	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736425-0002									
1220-OFD-LRP-03	WP009A PM Launch Ramp Parking	1945.80	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736425-0003									
1220-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1953.00	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736425-0004									
1220-OFD-LRP-FB 1	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736425-0005									
1220-OFD-LRP-FB 2	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736425-0006									

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: 12/27/2017 08:08:28



EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854

Tel/Fax: (732) 981-0550 / (732) 981-0551

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

EMSL Order: 051705733

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

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

Project: Oroville EM OP-2017/ 12-21 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/23/2017 10:20 AM

Analysis Date: 12/28/2017

Collected Date: 12/21/2017

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)
1221-OFD-PMT-01 051705733-0001	WP246 AM Intake Yard	1947.60	0.1980	0	None Detected		0.0010	<5.00	<0.0010
1221-OFD-PMT-02 051705733-0002	WP247 AM Upper Overlook Entry	1935.90	0.2110	0	None Detected		0.0009	<4.70	<0.0009
1221-OFD-PMT-03 051705733-0003	WP248 AM Upper Overlook	1948.50	0.1980	4	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported above include a contribution from non-regulated amphiboles.									
1221-OFD-PMT-04 051705733-0004	WP249 AM Canyon Drive	1909.90	0.2110	6	None Detected		0.0010	<4.70	<0.0010
Non-asbestos structures reported above include a contribution from non-regulated amphiboles.									
1221-OFD-PMT-05 051705733-0005	WP246 PM Intake Yard	1922.40	0.2110	1	None Detected		0.0010	<4.70	<0.0010
1221-OFD-PMT-06 051705733-0006	WP247 PM Upper Overlook Entry	1928.70	0.2110	1	None Detected		0.0009	<4.70	<0.0010
1221-OFD-PMT-07 051705733-0007	WP248 PM Upper Overlook	1926.00	0.2110	1	None Detected		0.0009	<4.70	<0.0010
1221-OFD-PMT-08 051705733-0008	WP249 PM Canyon Drive	1947.60	0.1980	0	None Detected		0.0010	<5.00	<0.0010
1221-OFD-PMT-FB 1 051705733-0009	Field Blank 1	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
1221-OFD-PMT-FB 2 051705733-0010	Field Blank 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A

Analyst(s)

Susan Pollack (10)

Chaikut Sae Lao, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 12/28/2017 14:38:58



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

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

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

LA Testing Order: 331725839

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: 2017.12.21 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/23/2017 9:20 AM

Analysis Date: 12/28/2017 - 12/29/2017

Collected Date: 12/21/2017

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)
1221-OFD-TPT-01 331725839-0001	WP278 AM N. Diversion Dam	1945.80	0.2090	0	None Detected		0.0009	<4.80	<0.0010
1221-OFD-TPT-02 331725839-0002	WP019 AM E. Diversion Dam	1938.60	0.2090	0	None Detected		0.0010	<4.80	<0.0010
1221-OFD-TPT-03 331725839-0003	WP020A AM SE Canal	1941.30	0.2090	3	None Detected		0.0009	<4.80	<0.0010
1221-OFD-TPT-04 331725839-0004	WP021A AM SW Canal	1944.00	0.2090	0	None Detected		0.0009	<4.80	<0.0010
1221-OFD-TPT-05 331725839-0005	WP281 AM Cherokee Rd.	1961.10	0.1970	0	None Detected		0.0010	<5.10	<0.0010
1221-OFD-TPT-06 331725839-0006	WP278 PM N. Diversion Dam	1917.90	0.2090	1	None Detected		0.0010	<4.80	<0.0010
1221-OFD-TPT-07 331725839-0007	WP019A PM E Diversion Dam	1929.60	0.2090	0	None Detected		0.0010	<4.80	<0.0010
1221-OFD-TPT-08 331725839-0008	WP020A PM SE Canal	1936.80	0.2090	0	None Detected		0.0010	<4.80	<0.0010
1221-OFD-TPT-09 331725839-0009	WP021A PM SW Canal	1934.10	0.2090	0	None Detected		0.0010	<4.80	<0.0010
1221-OFD-TPT-10 331725839-0010	WP281 PM Cherokee Rd.	1939.40	0.2090	0	None Detected		0.0009	<4.80	<0.0010
1221-OFD-TPT-FB 1 331725839-0011	Field Blank 1	0.00	0.1230	0	None Detected		N/A	<8.10	N/A
1221-OFD-TPT-FB 2 331725839-0012	Field Blank 2	0.00	0.1230	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: 331725839

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: 2017.12.21 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/23/2017 9:20 AM

Analysis Date: 12/28/2017 - 12/29/2017

Collected Date: 12/21/2017

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 (3)

Jeffrey Deboo (8)

Larry Kolk (1)

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 NVLAP Lab Code 101384-0

Initial Report From: 12/29/2017 12:48:46



EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854

Tel/Fax: (732) 981-0550 / (732) 981-0551

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

EMSL Order: 051705734

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: Oroville EM OP-2017/ 12-21 Burma Road (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/23/2017 10:20 AM

Analysis Date: 12/27/2017

Collected Date: 12/21/2017

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)
1221-OFD-BPT-01	WP017A AM Burma Road 01	1931.40	0.2110	5	None Detected		0.0009	<4.70	<0.0010
051705734-0001									
1221-OFD-BPT-02	WP036A AM Burma Road 02	1931.40	0.2110	0	Actinolite	1 1	0.0009	9.50	0.0019
051705734-0002									
1221-OFD-BPT-03	WP037A AM Burma Road 03	1948.50	0.1980	2	None Detected		0.0010	<5.00	<0.0010
051705734-0003									
1221-OFD-BPT-04	WP017A PM Burma Road 01	1941.30	0.1980	0	None Detected		0.0010	<5.00	<0.0010
051705734-0004									
1221-OFD-BPT-05	WP036A PM Burma Road 02	1941.30	0.1980	3	None Detected		0.0010	<5.00	<0.0010
051705734-0005									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1221-OFD-BPT-06	WP037A PM Burma Road 03	1941.30	0.1980	4	Actinolite	0 1	0.0010	5.00	0.0010
051705734-0006									
1221-OFD-BPT-FB 1	Field Blank 1	0.00	0.1240	1	None Detected		N/A	<8.10	N/A
051705734-0007									
1221-OFD-BPT-FB 2	Field Blank 2	0.00	0.1240	0	None Detected		N/A	<8.10	N/A
051705734-0008									

Analyst(s)

Colin Slattery (8)

Chaikut Sae Lao, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 12/27/2017 19:29:09



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: 331725842

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: 2017.12.21 - Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/23/2017 9:20 AM

Analysis Date: 12/27/2017 - 12/28/2017

Collected Date: 12/21/2017

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)
1221-OFD-LRP-01	WP009A AM Launch Ramp Parking	1965.60	0.1970	0	None Detected		0.0010	<5.10	<0.0010
331725842-0001									
1221-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1974.70	0.1970	0	None Detected		0.0010	<5.10	<0.0010
331725842-0002									
1221-OFD-LRP-03	WP009A PM Launch Ramp Parking	1927.80	0.2090	0	None Detected		0.0010	<4.80	<0.0010
331725842-0003									
1221-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1918.00	0.2090	0	None Detected		0.0010	<4.80	<0.0010
331725842-0004									
1221-OFD-LRP-FB 1	Field Blank 1	0.00	0.1230	0	None Detected		N/A	<8.10	N/A
331725842-0005									
1221-OFD-LRP-FB 2	Field Blank 2	0.00	0.1230	0	None Detected		N/A	<8.10	N/A
331725842-0006									

Analyst(s)

Jeffrey Deboo (2)

Larry Kolk (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 NVLAP Lab Code 101384-0

Initial Report From: 12/28/2017 10:09:30



EMSL Analytical, Inc.

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

EMSL Order: 041736570

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: 2017.12.22 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 12/24/2017 9:30 AM
Analysis Date: 12/27/2017
Collected Date: 12/22/2017

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)
1222-OFD-PMT-01 041736570-0001	WP246 AM Intake Yard	1906.20	0.2060	0	None Detected		0.0010	<4.80	<0.0010
1222-OFD-PMT-02 041736570-0002	WP247 AM Upper Overlook Entry	1911.60	0.2060	0	None Detected		0.0010	<4.80	<0.0010
1222-OFD-PMT-03 041736570-0003	WP248 AM Upper Overlook	1908.90	0.2060	0	None Detected		0.0010	<4.80	<0.0010
1222-OFD-PMT-04 041736570-0004	WP249 AM Canyon Drive	1916.00	0.2060	0	None Detected		0.0010	<4.80	<0.0010
1222-OFD-PMT-05 041736570-0005	WP246 PM Intake Yard	1957.50	0.2060	0	None Detected		0.0010	<4.80	<0.0010
1222-OFD-PMT-06 041736570-0006	WP247 PM Upper Overlook Entry	1949.40	0.2060	0	None Detected		0.0010	<4.80	<0.0010
1222-OFD-PMT-07 041736570-0007	WP248 PM Upper Overlook	1950.30	0.2060	0	None Detected		0.0010	<4.80	<0.0010
1222-OFD-PMT-08 041736570-0008	WP249 PM Canyon Drive	1947.60	0.2060	0	None Detected		0.0010	<4.80	<0.0010
1222-OFD-PMT-FB 1 041736570-0009	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
1222-OFD-PMT-FB 2 041736570-0010	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	N/A

Analyst(s)
 William Nguyen (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: 12/27/2017 13:47:02



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

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

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

EMSL Order: 041736571

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: 2017.12.22 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/24/2017 9:30 AM

Analysis Date: 12/27/2017

Collected Date: 12/22/2017

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)
1222-OFD-TPT-01	WP278 AM N Diversion Dam	1934.90	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736571-0001									
1222-OFD-TPT-02	WP019A AM E Diversion Dam	1930.50	0.2060	1	None Detected		0.0010	<4.80	<0.0010
041736571-0002									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1222-OFD-TPT-03	WP020A AM SE Canal	1943.10	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736571-0003									
1222-OFD-TPT-04	WP021A AM SW Canal	1927.80	0.2060	0	Actinolite	0 1	0.0010	4.80	0.00097
041736571-0004									
1222-OFD-TPT-05	WP281 AM Cherokee Rd	1926.80	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736571-0005									
1222-OFD-TPT-06	WP278 PM N Diversion Dam	1925.10	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736571-0006									
1222-OFD-TPT-07	WP019A PM E Diversion Dam	1936.80	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736571-0007									
1222-OFD-TPT-08	WP020A PM SE Canal	1941.30	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736571-0008									
1222-OFD-TPT-09	WP021A PM SW Canal	1944.00	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736571-0009									
1222-OFD-TPT-10	WP281 PM Cherokee Rd	1949.40	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736571-0010									
1222-OFD-TPT-FB 1	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736571-0011									
1222-OFD-TPT-FB 2	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736571-0012									



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

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

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

EMSL Order: 041736571

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: 2017.12.22 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/24/2017 9:30 AM

Analysis Date: 12/27/2017

Collected Date: 12/22/2017

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)

William Nguyen (12)

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: 12/27/2017 10:36:46



EMSL Analytical, Inc.

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

EMSL Order: 041736572
 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: 2017.12.22 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 12/24/2017 9:30 AM
Analysis Date: 12/27/2017
Collected Date: 12/22/2017

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)
1222-OFD-BPT-01	WP017A AM Burma Road 01	1928.70	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736572-0001									
1222-OFD-BPT-02	WP036A AM Burma Road 02	1921.60	0.2060	2	None Detected		0.0010	<4.80	<0.0010
041736572-0002									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1222-OFD-BPT-03	WP037A AM Burma Road 03	1918.90	0.2060	1	None Detected		0.0010	<4.80	<0.0010
041736572-0003									
1222-OFD-BPT-04	WP017A PM Burma Road 01	1906.20	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736572-0004									
1222-OFD-BPT-05	WP036A PM Burma Road 02	1903.50	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736572-0005									
1222-OFD-BPT-06	WP037A PM Burma Road 03	1903.50	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736572-0006									
1222-OFD-BPT-FB 1	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736572-0007									
1222-OFD-BPT-FB 2	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736572-0008									

Analyst(s)
 Matthew Dare (8)

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: 12/28/2017 08:11:51



EMSL Analytical, Inc.

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

EMSL Order: 041736574

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: 2017.12.22 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 12/24/2017 9:30 AM
Analysis Date: 12/26/2017 - 12/27/2017
Collected Date: 12/22/2017

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)
1222-OFD-LRP-01	WP009A AM Launch Ramp Parking	1898.10	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736574-0001									
1222-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1893.80	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736574-0002									
1222-OFD-LRP-03	WP009A PM Launch Ramp Parking	1952.10	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736574-0003									
1222-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1956.60	0.2060	0	None Detected		0.0010	<4.80	<0.0010
041736574-0004									
1222-OFD-LRP-FB 1	Field Blank 1	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736574-0005									
1222-OFD-LRP-FB 2	Field Blank 2	0.00	0.1290	0	None Detected		N/A	<7.80	N/A
041736574-0006									

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: 12/27/2017 13:21:49



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: 141706575
 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: 2017.12.23 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 12/24/2017 9:00 AM
Analysis Date: 12/28/2017
Collected Date: 12/23/2017

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)
1223-OFD-PMT-01 141706575-0001	WP246 AM Intake Yard	1377.00	0.2930	0	None Detected		0.0010	<3.40	<0.0010
1223-OFD-PMT-02 141706575-0002	WP247 AM Upper Overlook Entry	1385.10	0.2930	0	None Detected		0.0010	<3.40	<0.0010
1223-OFD-PMT-03 141706575-0003	WP248 AM Upper Overlook	1387.80	0.2790	0	None Detected		0.0010	<3.60	<0.0010
1223-OFD-PMT-04 141706575-0004	WP249 AM Canyon Drive	1393.20	0.2790	0	None Detected		0.0010	<3.60	<0.0010
1223-OFD-PMT-FB 1 141706575-0005	Field Blank 1	0.00	0.1330	0	None Detected		N/A	<7.50	N/A
1223-OFD-PMT-FB 2 141706575-0006	Field Blank 2	0.00	0.1330	0	None Detected		N/A	<7.50	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 NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial Report From: 12/28/2017 14:49:25



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: 141706574

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: 2017.12.23 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/24/2017 9:00 AM

Analysis Date: 12/28/2017

Collected Date: 12/23/2017

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)
1223-OFD-TPT-01 141706574-0001	WP278 AM N. Diversion Dam	1431.00	0.2790	1	None Detected		0.0010	<3.60	<0.0010
1223-OFD-TPT-02 141706574-0002	WP019A AM E. Diversion Dam	1439.20	0.2790	0	None Detected		0.0010	<3.60	<0.0010
1223-OFD-TPT-03 141706574-0003	WP020A AM SE Canal	1447.20	0.2790	1	None Detected		0.0010	<3.60	<0.0010
1223-OFD-TPT-04 141706574-0004	WP021A AM SW Canal	1452.60	0.2660	0	None Detected		0.0010	<3.80	<0.0010
1223-OFD-TPT-05 141706574-0005	WP281 AM Cherokee Rd.	1444.50	0.2790	0	None Detected		0.0010	<3.60	<0.0010
1223-OFD-TPT-FB 1 141706574-0006	Field Blank 1	0.00	0.1330	0	None Detected		N/A	<7.50	N/A
1223-OFD-TPT-FB 2 141706574-0007	Field Blank 2	0.00	0.1330	0	None Detected		N/A	<7.50	N/A

Analyst(s)

Mark Tate (7)

Rhonda McGee

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

Initial Report From: 12/28/2017 11:06:59



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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

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

EMSL Order: 341713588

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: 2017.12.23 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/24/2017 9:00 AM

Analysis Date: 12/27/2017

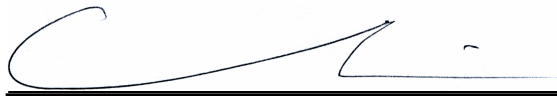
Collected Date: 12/23/2017

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)
1223-OFD-BPT-01	WP017A AM Burma Road 01	1703.70	0.2280	1	None Detected		0.0010	<4.40	<0.0010
341713588-0001									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1223-OFD-BPT-02	WP036A AM Burma Road 02	1707.30	0.2280	0	None Detected		0.0010	<4.40	<0.0010
341713588-0002									
1223-OFD-BPT-03	WP037A AM Burma Road 03	1710.00	0.2280	1	None Detected		0.0010	<4.40	<0.0010
341713588-0003									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
1223-OFD-BPT-FB 1	Field Blank 1	0.00	0.1340	0	None Detected		N/A	<7.50	N/A
341713588-0004									
1223-OFD-BPT-FB 2	Field Blank 2	0.00	0.1340	0	None Detected		N/A	<7.50	N/A
341713588-0005									

Analyst(s)

Gerald Iannuzzi (5)



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: 12/27/2017 16:43:08



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

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

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

EMSL Order: 341713585

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: 2017.12.23 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 12/24/2017 9:00 AM

Analysis Date: 12/27/2017

Collected Date: 12/23/2017

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)
1223-OFD-LRP-01	WP009A AM Launch Ramp Parking	1377.00	0.2810	2	None Detected			0.0010	<3.60	<0.0010
341713585-0001										
1223-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1379.70	0.2810	4	None Detected			0.0010	<3.60	<0.0010
341713585-0002										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
1223-OFD-LRP-FB 1	Field Blank 1	0.00	0.1340	0	None Detected			N/A	<7.50	N/A
341713585-0003										
1223-OFD-LRP-FB 2	Field Blank 2	0.00	0.1340	0	None Detected			N/A	<7.50	N/A
341713585-0004										

Analyst(s)

Gerald Iannuzzi (4)

Carlos Rivadeneyra, Laboratory Director
or other approved signatory

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

Initial report from: 12/27/2017 13:57:27