



# EMSL Analytical, Inc.

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**EMSL Order:** 091710331  
**Customer ID:** SMGS78B  
**Customer PO:**  
**Project ID:** Oroville EM OP

**Attention:** Dave Beadle, CIH  
Safety Management Systems  
460 Glen Drive  
Industrial Hygiene 321  
Oroville, CA 95966  
**Project:** 2017.05.27 Diversion Dam (Oroville EM OP)

**Phone:** (661) 699-9375  
**Fax:**  
**Received Date:** 5/30/2017 8:00 AM  
**Analysis Date:** 06/17/2017 - 06/19/2017  
**Collected Date:** 05/27/2017

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

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm <sup>2</sup> )	(S/cc)
0527-OFD-TPT-01	WP278 AM N. Diversion Dam	1891.10	0.2110	0	Actinolite	0	1	0.0010	4.70	0.00096
<i>091710331-0001</i>										
0527-OFD-TPT-02	WP2511 AM N. Diversion Dam Yard	1877.00	0.2110	0	None Detected			0.0010	<4.70	<0.0010
<i>091710331-0002</i>										
0527-OFD-TPT-03	WP279 AM SE Diversion Dam	1876.00	0.2110	0	None Detected			0.0010	<4.70	<0.0010
<i>091710331-0003</i>										
0527-OFD-TPT-04	WP277 AM SW Diversion Dam	1884.60	0.2110	0	None Detected			0.0010	<4.70	<0.0010
<i>091710331-0004</i>										
0527-OFD-TPT-05	WP019A AM E Diversion Dam	1864.70	0.2110	0	Chrysotile	1	0	0.0010	4.70	0.00098
<i>091710331-0005</i>										
0527-OFD-TPT-06	WP020A AM SE CANAL	1884.00	0.2110	1	Actinolite	0	1	0.0010	4.70	0.00097
<i>091710331-0006</i>										
0527-OFD-TPT-07	WP021A AM SW CANAL	1893.80	0.2110	1	None Detected			0.0010	<4.70	<0.0010
<i>091710331-0007</i>										
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.										
0527-OFD-TPT-08	WP281 AM CHEROKEE RD	1901.80	0.2110	1	Chrysotile	7	1	0.0010	38.00	0.0077
<i>091710331-0008</i>										
0527-OFD-TPT-09	WP 278 PM N DIVERSION DAM	1987.20	0.1980	0	Chrysotile	2	0	0.0010	10.00	0.0020
<i>091710331-0009</i>										
0527-OFD-TPT-10	WP251 PM DIVERSION DAM	1989.90	0.1980	0	Actinolite	0	1	0.0010	5.10	0.00098
<i>091710331-0010</i>										
0527-OFD-TPT-11	WP279 PM SE DIVERSION DAM	2005.40	0.1980	1	Actinolite	0	1	0.0010	5.10	0.00097
<i>091710331-0011</i>										
0527-OFD-TPT-12	WP277 PM SW DIVERSION DAM	2007.40	0.1980	1	None Detected			0.0010	<5.10	<0.0010
<i>091710331-0012</i>										
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.										
0527-OFD-TPT-13	WP019A PM E DIVERSION DAM	2007.40	0.1980	2	None Detected			0.0010	<5.10	<0.0010
<i>091710331-0013</i>										
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.										
0527-OFD-TPT-14	WP020A PM SE CANAL	1994.60	0.1980	3	Actinolite	1	0	0.0010	5.10	0.00097
<i>091710331-0014</i>										
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.										



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Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm <sup>2</sup> )	(S/cc)
0527-OFD-TPT-15 091710331-0015	WP021A SW CANAL	2022.90	0.1980	3	None Detected			0.0010	<5.10	<0.0010
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.										
0527-OFD-TPT-16 091710331-0016	WP281 PM CHROKKEE RD	2036.60	0.1980	1	Actinolite	0	1	0.0010	5.10	0.00095
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.										
0527-OFD-TPT-FB1 091710331-0017	FIELD BLANK 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
0527-OFD-TPT-FB2 091710331-0018	FIELD BLANK 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A

The results in this amended report dated 06/19/2017 reflect additional quality control preparation and analysis.

Analyst(s)  
Darrah Johnson-McDaniel (10)  
Matthew Dare (8)

  
Matthew Batongbacal  
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: 06/14/2017 15:54:22