



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Dr., Diamond Bar, CA 91765-4182

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS
(Page 1 of 2)

TO: Jason Low, Ph.D.
Atmospheric Measurements Manager
Science & Technology Advancement

LABORATORY NO. 1616711-04 – 05,
1616813-01

SAMPLES DESCRIBED AS:

Three 47mm Teflon (PTFE) filter

REFERENCE NO.: XRF2-4-86

SUBMITTED ON: 06/21/2016

REQUESTED BY: Jason Low

SAMPLE SOURCE:

Maywood Fire – Emergency Response
3570 Fruitland Ave.
Maywood, CA 90270

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

The samples were collected using PTFE filters on low volume TSP samplers. The sampling duration and locations are as follows.

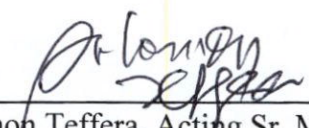
Teflon #4675481 – 06/16/16 09:15 – 06/17/16 09:15, 35ft WNW of fire
Teflon #4675482 – 06/16/16 16:02 – 06/17/16 06:01, Vernon Fire Station #1
Teflon #4675485 – 06/16/16 15:15 – 06/17/16 15:15, Fishburn Elementary

Metals Analysis by EDXRF:

The submitted PTFE filter samples were analyzed using the PANalytical PW 5000 Epsilon 5® Energy Dispersive XRF (ED-XRF) Spectrometer. Analysis for metals was performed in accordance with SCAQMD Method #00004, (*Standard Operating Procedure for the Analysis of PM2.5 Filter Samples by Energy Dispersive X-Ray Fluorescence Spectrometry*).

Results: See page 2 for results.

Date Approved: 6/22/16

Approved By: 

Solomon Teffera, Acting Sr. Manager
Laboratory Services

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Metal	Unit	35ft WNW of fire (Teflon #4675481) Concentration	Vernon Fire Station #1 (Teflon #4675482) Concentration	Fishburn Elementary (Teflon #4675485) Concentration	Acute REL
Aluminum	ng/m3	1220	602	764	(a)
Antimony	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Arsenic	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	200
Barium	ng/m3	115	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Bromine	ng/m3	14	BELOW DETECTION LIMIT	15	(a)
Cadmium	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Calcium	ng/m3	1900	1160	1800	(a)
Chlorine	ng/m3	3390	3260	1990	210,000
Chromium	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Cobalt	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Copper	ng/m3	58	BELOW DETECTION LIMIT	24	100,000
Iron	ng/m3	1290	664	981	(a)
Lead	ng/m3	52	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Magnesium	ng/m3	1650	478	509	(a)
Manganese	ng/m3	29	25	39	(a)
Molybdenum	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Nickel	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	200
Phosphorus	ng/m3	90	40	100	(a)
Potassium	ng/m3	704	525	829	(a)
Selenium	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Sulfur	ng/m3	929	642	764	(a)
Tin	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Titanium	ng/m3	120	55	98	(a)
Vanadium	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	30,000
Zinc	ng/m3	143	28	33	(a)

(a) No acute REL available



Maywood Fire

South Coast Air Quality Management District
Special Monitoring Field Sample Log

Site Name: **Teflon #4675481**

Lab No: **1616711-04**

Description: 35ft WNW of Maywood Fire

Date Sample Received: _____

Sample Begin Date: 06/15/2016 00:00 09:15 pdt

Reference No: _____

Sample End Date: 6/17/16 09:15

Analyst: _____

Retrieval Date: 6/17/16 16:45

Filter Load Date: 6/16/16 0912 pdt

1440 min
Sample Elapsed Time

S Boddeker
Recorded By

5.00 v/lpm
~~12.0~~
Average Flow Rate

Actual 7.20m³
Standard 7.25m³
~~16.5~~
Air Volume

Comments:

BGI @MMI Sh 280

TSP



All times are local Pacific Daylight Savings Time

Chain of Custody:

[Signature]
Relinquished By

Kelly Vaughn
Received By

LAB
Section/Group

6/21/16 9:30 AM
Date/Time

Relinquished By

Received By

Section/Group

Date/Time



Maywood Fire

South Coast Air Quality Management District



Special Monitoring Field Sample Log

Site Name: **Teflon #4675482**

Lab No: **1616711-05**

Description: ~~5577 WNW of T22B~~ **Vernon Fire Station #1**

Date Sample Received: _____

Sample Begin Date: ~~06/16/2016 00:00~~ **16:02**

Reference No: _____

Sample End Date: **6/17 06:01**

Analyst: _____

Retrieval Date: **6/17 17:02**

Filter Load Date: **6/16 16:00**

<u>839</u>	<u>S Boddeker</u>	<u>5.00 v/lpm</u>	<u>std 4.26 lpm</u>
Sample Elapsed Time	Recorded By	Average Flow Rate	Actual Air Volume

Comments:



dead TSP
battery

All times Local Pacific ^{Savings} daylight time

Chain of Custody:

<u>[Signature]</u>	<u>[Signature]</u>	<u>LAB</u>	<u>6/21/16 9:30AM</u>
Relinquished By	Received By	Section/Group	Date/Time

_____	_____	_____	_____
Relinquished By	Received By	Section/Group	Date/Time



Maywood Fire

South Coast Air Quality Management District



Special Monitoring Field Sample Log

Site Name: **4675485**

Lab No: **1616813-01**

Description: Fishburn Elementary
15:15

Date Sample Received: _____

Sample Begin Date: 06/16/2016 00:00

Reference No: _____

Sample End Date: 6/17/16 15:15

Analyst: _____

Retrieval Date: 6/17/16 16:25

Filter Load Date: 6/16/16 1500

1440 min
Sample Elapsed Time

S. Bodden
Recorded By

5.00 v/lpm
Average Flow Rate

Std 7.23 m³
Actual 7.20 m³
Air Volume

Comments:



TSP

Fishburn
Elementary

Chain of Custody:

[Signature]
Relinquished By

[Signature]
Received By

LAB
Section/Group

6/21/16 9:30 AM
Date/Time

Relinquished By

Received By

Section/Group

Date/Time